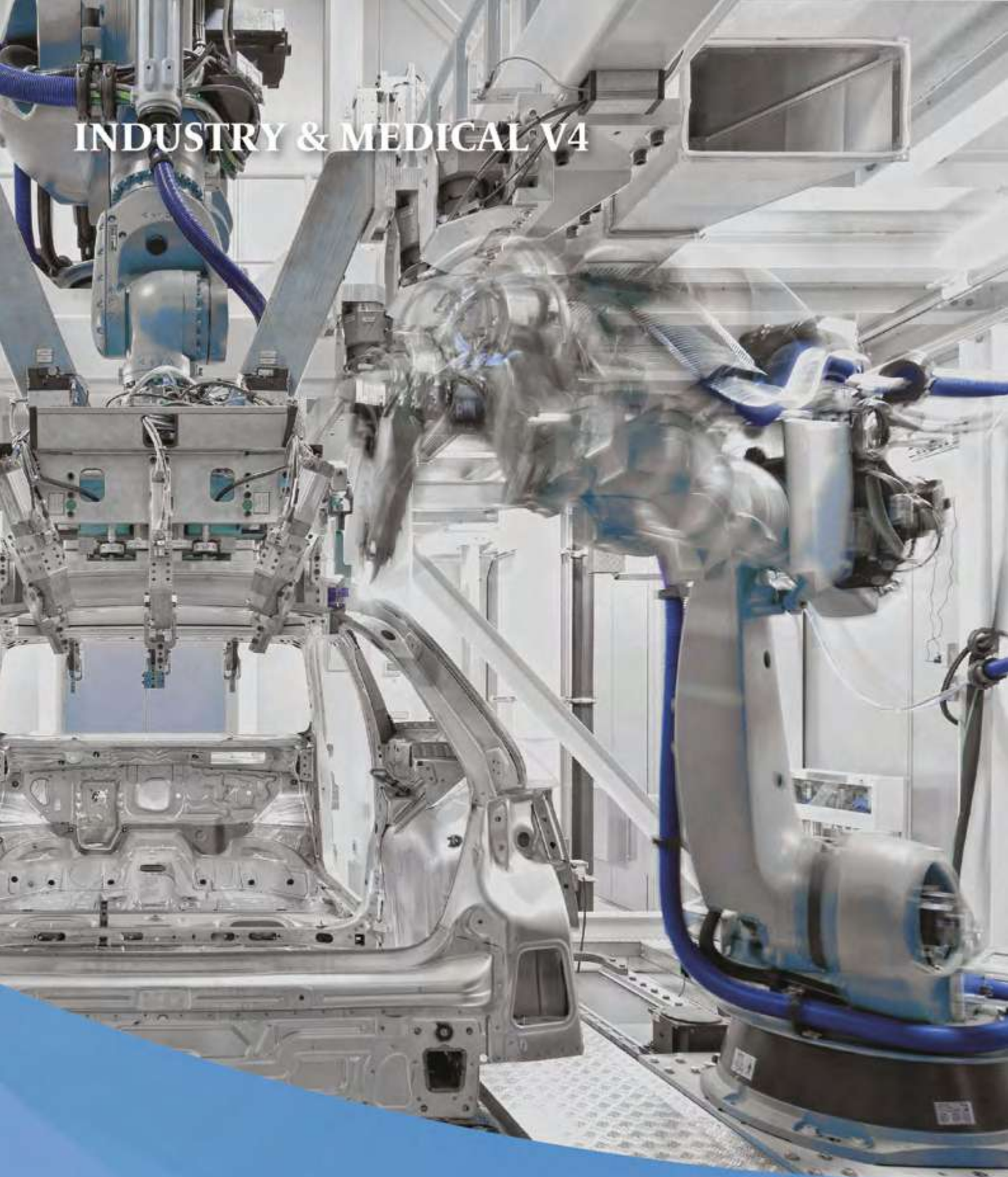


INDUSTRY & MEDICAL V4



When your hard working is
beneficial to both yourself
and others, you will be happy
and successful!

姚全友

Catalogue

To be the world advanced data cables, special cables and interconnect products design&manufacturing enterprise.

Quick Selection	Instructions' Pages	Pages	
			LONGTRONIC™
10-11		18	Ethernet Cables
12-13		46	Bus Cables
12-13		65	Low-Frequency Data Cables
12-13		80	Sensor Cables
			LONGFLEX™
14-15		89	Motion Control Cables
14-15		116	Towline Cables
14-15		160	Servo Cables
14-15		171	Robot Cables
16-17		184	High-Temperature Cables
16-17		192	Electrical Installation Cables
		206	Medical Cables
16-17		212	Connection Technology
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Company Profile

About ZHAOLONG Industry and Medical Sector

ZHAOLONG was established in 1993, has more than 20 years experience for cable research and manufacturing.

ZHAOLONG be certificated as Chinese National High-tech Enterprise, the R&D and manufacturing base for SECRI (Shanghai Electric Cable Research Institute), member of CCSA and ITSC (China Communications Standards Association) \ National Information Technology Standardization Committee), drafter of national standards for data cables. ZHAOLONG has about 30 national patents.

ZHAOLONG set up the data cables and assemblies laboratories with SECRI (Shanghai Electric Research Institute) and work with Materials Institute of Tsinghua University new materials development.

ZHAOLONG is now having a research and manufacturing base covering 75,000 M2 only for transmission and control cables. There is more than 50,000 M2 ready for the next step expending. ZHAOLONG is having more than 100000 specifications of cables and assembly products.

ZHAOLONG is keeping up with the technological development, constantly improving the product specification, the product can be used in many fields like data center, industry and medical application, high-end consumer electronics, smart home etc. The products have been widely used in more than 100 Countries.

ZHAOLONG's lab covers 800m2, be facilitated with a full range test equipment, has the capability to perform test of all aspects like mechanical, physical, environmental, electrical, performance test for cabling systems etc. The U-shaped towline presser tester, torsion tester, bending test machine, oil test equipment etc. make sure ZHAOLONG can perform a scientific study for industrial used cables like chain cable and robotic cable.

ZHAOLONG industrial and medical cables can be widely used in all industries like machinery manufacturing, factory automation, marine engineering, wind power systems, transportation, robots, food and beverage, automobile manufacturing, instrumentation, aerospace, petrochemical, medical services and other industries. Our products include LONGTRONIC™ (industrial Ethernet cables, bus cables, low-frequency data transmission cables, sensor cables), LONGFLEX™ (power control cables, towline cables, servo cables, robot cables), connection technology (RJ45 cable assemblies, M-series cable assemblies, servo motor cable assemblies, D-SUB cable assemblies), other cables (cables used in high temperature and electrical equipment), medical cables (ultrasonic equipment probe cables, endoscope lines, medical equipment lines, medical flexible RF lines, high-temperature low-loss medical coaxial cables).

ZHAOLONG has taken part in drafting 6 national standards such as GB/T1801, GB/T21430, GB/T21204, etc and international standard with IEC TC 46 communication cables technical committee.

ZHAOLONG is a member of the China Robot Association, with the certificates and recognition like UL, PI, CC-Link, EtherCAT, CCC, ISO9001, ISO14001, RoHS, Reach, etc. be issued by the most authority institutions national and international.

ZHAOLONG is be qualified as Zhejiang Famous Brand, Trustworthy Enterprise, National High-tech Enterprise, Zhejiang High-tech lab, Zhejiang Famous Export Brand, Zhejiang Green Enterprise etc. for many years.



ZHAOLONG has the certificates authorized by the following authorities



ISO9001, a quality assurance system, is the basis of the development and growth of an enterprise. ISO9001 does not refer to a standard, but a general designation for a kind of standards. It is an international standard made by TC176 (TC176 refers to the quality management system technical committee). And it is the most popular and widespread products among several standards of ISO12000.



ISO 14001 is the designation of environmental management system. ISO14000 series standard is an environmental management system standard made by the international standards organizations. It is made because that the world environmental pollution and ecological damage is becoming more and more severe, the destruction of the ozone layer, the global warming, the disappearance of biodiversity and other major environmental problems has brought threatenings to the future human survival and development. The standard is made according to the requirements for the international environmental protection and the international economy trade development.



PI Association: PROFIBUS is an international and open fieldbus standard which is independent of the equipment manufacturers. The transmission speed of PROFIBUS can be selected between the ranges of 9.6 kbaud to 12Mbaud. And when the system of the bus starts, all the devices connected to the bus should be set to the same speed. PROFIBUS is a fieldbus technology that can be applied to the workshop monitoring in the factory automation and data communication and control for the equipment layer of the field. It can realize the decentralized digital control and field communication networks which monitors from the field equipment layer to the workshops, thus providing a feasible solution to the integrated automation of the factory and the intelligentization of the field equipment.



EtherCAT(Ethernet Control Automation Technology) is an open-framework of field bus system based on Ethernet. And "CAT" in the EtherCAT is the abbreviation of the initials of "Control Automation Technology".EtherCAT has set up a new standard for the real-time performance of the system and the flexibility of the topology. And at the same time, EtherCAT complies to or even reduces the use-cost of field bus. Other features of EtherCAT include the synchronization of high-precision devices, redundant optical cables and functional security protocols (SIL3).



CC-Link is an open field bus. With high data capacity and various communication speed grades, it is a composited, developed and adaptable network system which can adapt to a high level management network or a lower level sensor system.



Zhaolong is a member of China Robot Industry Alliance, which is a national collaborative platform for production, study, research and application of robots. to speed up the communication, cooperation and self-discipline between the members in the fields of technology, market and intellectual property and also looking for the popularity for robot technology in all industries.



UL is short for Underwriter Laboratories Inc., which is the most authoritative non-governmental institution for safety testing and identification in US and also one of the big ones over the world. Zhaolong has more than 100 UL listed products, UL marks will be showed in related products' pages.



CPR is the law to saving lives and protect buildings, European level legislation supports "single market", CPR will replace national standards and requirements from 1st July 2017, All the construction products must be CE marked, after 1st July,2017—E.G.Steel,doors,windows,cables.....



RoHS is the English abbreviation of Restriction to the use of Hazardous Substances in electrical and electronic equipment. Its aim is to prevent the mixing and the use of the electrical and electronic equipment and materials containing the prohibited substances, substances planned to be scrapped and substances (harmful substances) to be reduced in the environmental management. The products in Zhaolong comply to the RoHS standards. Besides, Zhaolong company has professional analyzers on the raw materials and products for RoHS testing. RoHS marks will be first showed in the corresponding product pages.



Reach, i.e. Registration, Evaluation, Authorization and Restriction of Chemicals, is an EU regulation for the preventative management of all the chemicals entering its market which was formally implemented on June 1st, 2007. And most products in Zhaolong can meet the requirements of REACH.

Leading Techniques and Products

Mastering new technologies requires good comprehension and innovation as well.

Insulation Physical Foaming Technology

Physical Foaming is to achieve foam through directly immitting gas or liquid gas during the plastic extrusion process. It can can guarantee the mechanical strength and excellent surface quality, increase the water resistance and moisture resistance, and improve the non-deformability of the core wire.

Our CAT7A product is the first Delta certified in Asia.



Four-Head Vertical-Foiled Shielding Technology

Patent Number is CN105355335A

Four-head vertical-foiled technology can ensure the cables of PiMF structure, for example, CAT8, CAT7A, CAT7, CAT6A, Li2YCY PiMF and some other products, the degree of tightness of each pair aluminum foiled cable, the capacitance of each pair is uniform, and enhance the production efficiency of cables while at the same time improve the products' transmission performance.



100% Back-Twist Cabling Technology

It increases the stowage capacity of the winding cable core, realize the 100% back-twist twisting of the cable cores, avoiding the phenomenon of lacking back-twist or excessive back-twist, ensuring the production quality of cables and enhancing the performance of flexural endurance and twisting resistance of cables.

Our drag chain robot cables can reach more than 20 000 000 cycles of flexural endurance tests and more than 10 000 000 times of torsion tests.



Star Quad Stranding Cabling Technology

We use the leading and imported star quad cabling equipment which has 0%-100% adjustable back-twist rate. The products produced by this equipment has excellent transmission performance, outstanding signal cross-talk performance and high production efficiency, perfectly meeting the needs of our customers.



Leading Techniques and Products

Innovation is the basis for an enterprise and the guarantee of development.

Teflon Solid & Foam and Extrusion Technology

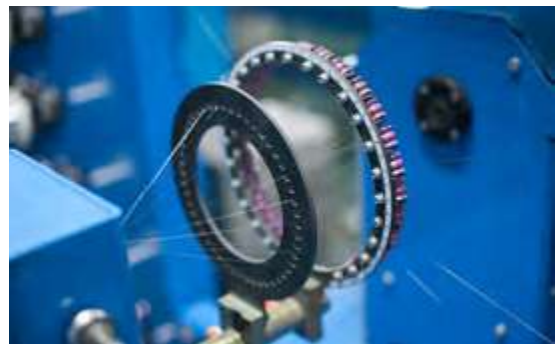
It has excellent high temperature resistance, low temperature resistance, moisture resistance, abrasion resistance, strong acid and alkali resistance, insulation, dry lubrication and other characteristics, so it is generally applicable to all the industrial areas.

With this technology, we have developed high-temperature cables, locomotive data cables, CMP high-frequency cables and other products.



Multi-core MCC Technology

We have developed MCC cables with minimum 46 AWG. It can be applied in Industrial Endoscope, Medical Super Sound Probe cables High - speed transmission chip connecting wire, and anti-terrorist camera cables and some other high-end products.



Twinax Technology

In January, 2016, in America Designcon, we announced the smallest QSFP cables in the world. The outer diameter is only 3.8mm and the transmission rate can be up to 200 Gbps.



SEMI-ACC™ Technology

It has the performance of high density, miniaturization, low cost, low power consumption, high reliability, and better delay.



Market Application

Factory Automation

Industrial EtherNet
PROFINET TYPE A/B/C P. 40-42
EtherCAT PoE P. 44
Bus Cable
PROFIBUS DP P. 47, Canbus P. 54
Sensor Cable
SENSOR FD 307 P P. 86
SENSOR FD 307 CP P. 88
Servo Cable
SERVO FD 320 Series P. 164
SERVO FD 330 Series P. 168
Assemblies
RJ45 Cable Assemblies, M Series Cable Assemblies
P. 216



Measuring and Sensing

SENSOR FD 307 P P. 86
SENSOR FD 307 CP P. 88
Sensor Cables Assemblies P. 242-265

Industrial Robot Integrated Systems

Drag Chain
LONGFLEX CHAIN FD 730 P P. 152
LONGFLEX CHAIN FD 730 CP Series P. 154
LONGFLEX CHAIN FD 837 P P. 156
LONGFLEX CHAIN FD 837 CP Series P. 158
Servo Cables
LONGFLEX SERVO FD 327 CP P. 166
LONGFLEX SERVO FD 330 CP P. 168
Sensor Cables
SENSOR FD 307 P P. 86
SENSOR FD 307 CP P. 88



Machine Vision

GigE Assemblies P. 213
USB3.0 Assemblies P. 214
Camera Link Assemblies P. 215



Special Environment Application

Wind Power Cables P. 38
Locomotive Cable P. 39
Marine Cable P. 34-36
Hot Temperature Line P. 185-191

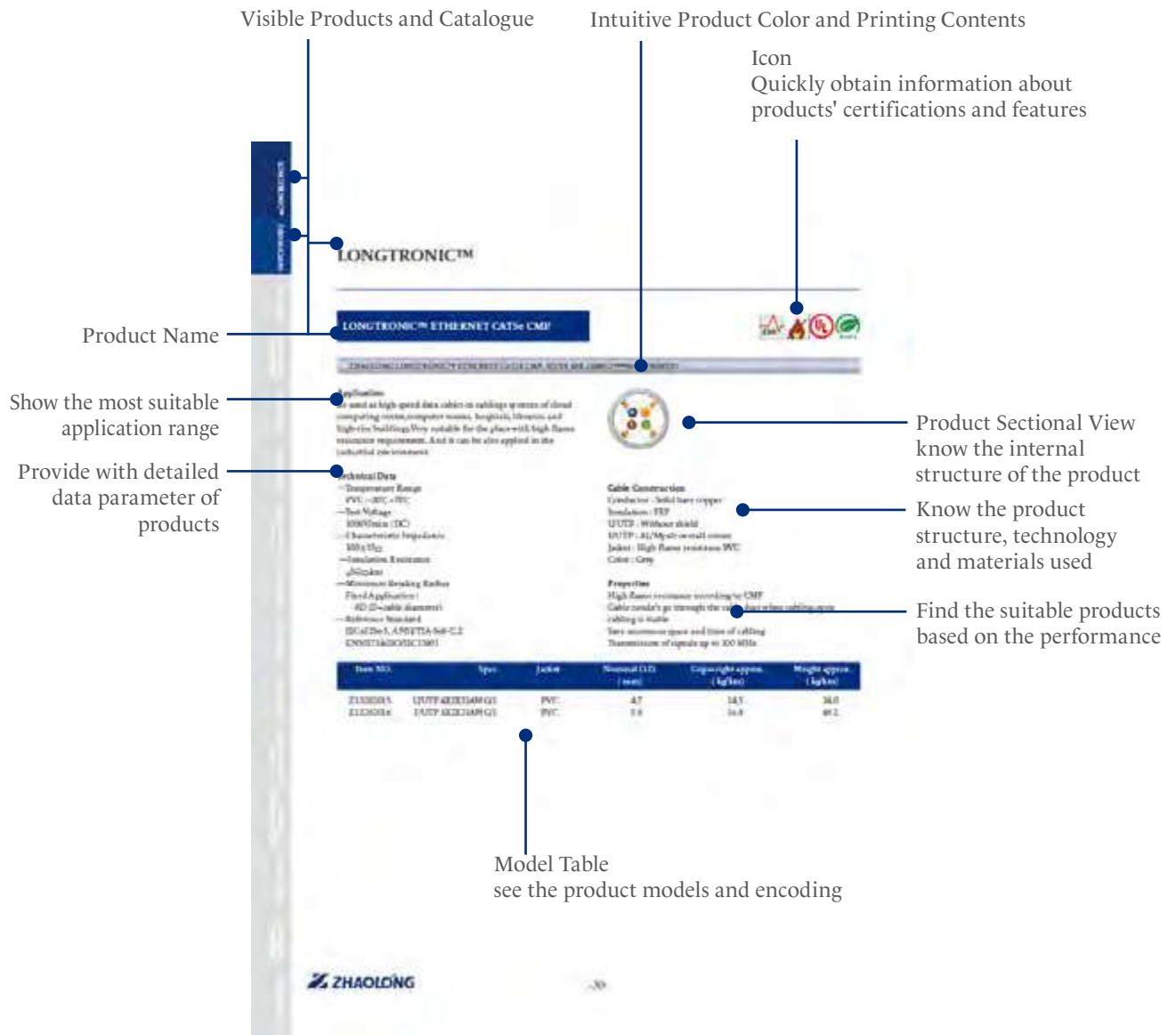
Medical Equipment

Ultrasonic Equipment Probe Line P. 207
Endoscopic line P. 208
Medical flexible radio frequency line P. 210
High-temperature Low-loss Medical Coaxial Line P. 211



Product Page Index

Product Page Index



Product Name Identification

SE/UTP: AL/Mylar overall screen and tinned copper wire overall braid

S/FTP: AL/Mylar individual screen and tinned copper wire overall braid

U/UTP: unshield F/UTP:AL/Mylar overall shielding

TP: twisted wire CY: shielded PVC jacket

PIMF: AL/Mylar individual screen

S/UTP: braid overall shielding

CP: shielded PUR jacket

FD: Highly flexible towline cable

P: PUR jacket

C: shield

U/FTP: AL/Mylar individual screen

CH: shielded LSZH jacket

Notes : The information of the products cannot reflect every detail. If there's any adjustment about the specifications and size, we'll not inform in advance. If you have any other requirements, please directly call us or email us for further consultation.

Trait Icon

Trait Icons



Low Smoke



Torsion Resistance



Halogen Free



For Drag Chain



Flame Resistance



Flexible Cables



Fire Resistance



Resistant to Hydrolysis



UV-Resistant



Anti-Chemical



High Temperature Resistance



RoHS Certified



Low Temperature Resistance



UL Certified



Anti-EMI



CPR Certified

Please be noted: The CPR products is keep increasing, please contact ZHAOLONG for detail.



Oil Resistant

Quick Selection Guide

Cable Series	Outer Jacket	Shield	Laying Category	Temperature Range(°C) Fixed Application
EtherNet Cables				
LONGTRONIC™ ETHERNET CAT8	PVC	✓	○	-20 ~ 70
	LSZH	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET CAT7A	PVC	✓	○	-20 ~ 70
	LSZH	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET CAT7	PVC	✓	○	-20 ~ 70
	LSZH	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET FLEX CAT7	PVC	✓	●	-20 ~ 70
	LSZH	✓	●	-40 ~ 80
	PUR	✓	●	-40 ~ 80
LONGTRONIC™ ETHERNET CAT6A	PVC	✓	○	-20 ~ 70
	LSZH	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET FLEX CAT6A	PVC	✓	●	-20 ~ 70
	LSZH	✓	●	-40 ~ 80
	PUR	✓	●	-40 ~ 80
LONGTRONIC™ ETHERNET CAT6	PVC	□	○	-20 ~ 70
	LSZH	□	○	-40 ~ 80
LONGTRONIC™ ETHERNET CAT6 CMP	PVC	□	○	-20 ~ 70
LONGTRONIC™ ETHERNET FLEX CAT6	PVC	□	●	-20 ~ 70
	LSZH	□	●	-40 ~ 80
	PUR	□	●	-40 ~ 80
LONGTRONIC™ ETHERNET SPECIAL CAT6	Nylon	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET CAT5e	PVC	□	○	-20 ~ 70
	LSZH	□	○	-40 ~ 80
LONGTRONIC™ ETHERNET CAT5e CMP	PVC	□	○	-20 ~ 70
LONGTRONIC™ ETHERNET FLEX CAT5e	PVC	□	●	-20 ~ 70
	LSZH	□	●	-40 ~ 80
	PUR	□	●	-40 ~ 80
LONGTRONIC™ ETHERNET FD CAT5e	PVC	✓	●	-40 ~ 80
	PUR	✓	●	-40 ~ 80
LONGTRONIC™ ETHERNET SPECIAL CAT5e	Nylon	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET MARINE CAT7A	SHF1	✓	○	-40 ~ 80
	SHF2	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET MARINE CAT7	SHF1	✓	○	-40 ~ 80
	SHF2	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET MARINE CAT6A	SHF1	✓	○	-40 ~ 80
	SHF2	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET Wind Energy CAT5e	PVC	✓	●	-40 ~ 70
	PUR	✓	●	-40 ~ 80
LONGTRONIC™ ETHERNET LOCOMOTIVE CAT5e	LSZH	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET PROFINET TYPE A	PVC	✓	○	-20 ~ 70
	LSZH	✓	○	-40 ~ 80
LONGTRONIC™ ETHERNET PROFINET TYPE B	PVC	✓	●	-20 ~ 70
	FRNC	✓	●	-40 ~ 80
LONGTRONIC™ ETHERNET PROFINET TYPE C	PVC	✓	●	-40 ~ 80
	PUR	✓	●	-40 ~ 80
LONGTRONIC™ ETHERNET EtherCAT	PVC	✓	●	-40 ~ 80
	LSZH	✓	●	-40 ~ 80
	PUR	✓	●	-40 ~ 80
LONGTRONIC™ ETHERNET EtherCAT PoE	PUR	✓	●	-40 ~ 80
LONGTRONIC™ ETHERNET CC-Link IE	PVC	✓	●	-20 ~ 70
	LSZH	✓	○	-40 ~ 80
	PUR	✓	●	-40 ~ 80

Application Symbol Identification: ○ Fixed Application ● Fixed Application or Occasional Moving ● Drag Chain Application □ Some products are shielded

Quick Selection Guide

Min.Bending Radius Fixed Application	Temperature Range(°C) Flexible Application	Min.Bending Radius Flexible Application	Flame Resistance	Halogen-free	Pages
10D			✓		19
8D			✓	✓	
8D			✓		20
8D			✓	✓	
8D			✓		21
8D			✓	✓	
8D	-5 ~ 60	15D	✓		22
8D	-5 ~ 70	15D	✓	✓	
8D	-5 ~ 70	15D	✓	✓	
8D			✓		23
8D			✓	✓	
8D	-5 ~ 60	15D	✓		24
8D	-5 ~ 70	15D	✓	✓	
8D	-5 ~ 70	15D	✓	✓	
8D			✓		25
8D			✓	✓	
8D			✓		26
8D	-5 ~ 60	15D	✓		27
8D	-5 ~ 70	15D	✓	✓	
8D	-5 ~ 70	15D	✓	✓	
15D					28
8D			✓		29
8D			✓	✓	
8D			✓		30
8D	-5 ~ 60	15D	✓		31
8D	-5 ~ 70	15D	✓	✓	
8D	-5 ~ 70	15D	✓	✓	
5D	-5 ~ 70	10D	✓		32
5D	-5 ~ 70	10D	✓	✓	
15D					33
8D			✓	✓	34
8D			✓	✓	
8D			✓	✓	35
8D			✓	✓	
8D			✓	✓	36
8D			✓	✓	
8D	-5 ~ 60	10D	✓		38
8D	-20 ~ 70	10D	✓	✓	
8D			✓	✓	39
10D			✓		40
10D			✓	✓	
8D	-5 ~ 60	15D	✓		41
8D	-5 ~ 70	15D	✓	✓	
8D	-5 ~ 70	15D	✓		42
8D	-20 ~ 70	15D	✓	✓	
8D	-5 ~ 70	15D	✓		43
8D	-5 ~ 70	15D	✓	✓	
8D	-20 ~ 70	15D	✓	✓	
8D	-5 ~ 70	15D	✓	✓	44
8D	-5 ~ 60	15D	✓		45
8D	-5 ~ 70	15D	✓	✓	
8D	-20 ~ 70	15D	✓	✓	

Quick Selection Guide

Cable Series	Outer Jacket	Shield	Laying Category	Temperature Range(℃) Fixed Application	Min.Bending Radius Fixed Application
Bus Cables					
LONGTRONIC™ BUS PROFIBUS-DP	PVC	✓	○	-20 ~ 70	10D
	LSZH	✓	○	-40 ~ 80	10D
	PUR	✓	○	-40 ~ 80	10D
	PE	✓	○	-40 ~ 80	10D
LONGTRONIC™ BUS PROFIBUS-DP FD	PVC	✓	●	-40 ~ 80	10D
	PUR	✓	●	-40 ~ 80	10D
LONGTRONIC™ BUS PROFIBUS-DP Armored	PVC	✓	○	-20 ~ 70	15D
	PE	✓	○	-40 ~ 80	15D
	SHF1	✓	○	-40 ~ 80	15D
	SHF2	✓	○	-40 ~ 80	15D
LONGTRONIC™ BUS PROFIBUS-PA	PVC	✓	○	-20 ~ 70	10D
	LSZH	✓	○	-40 ~ 80	10D
LONGTRONIC™ BUS PROFIBUS-PA CY/CH	PVC	✓	○	-20 ~ 70	10D
	LSZH	✓	○	-40 ~ 80	10D
LONGTRONIC™ BUS CANBUS TP	PVC	✓	●	-20 ~ 70	10D
LONGTRONIC™ BUS CANBUS FD-TP	PUR	✓	●	-40 ~ 80	10D
LONGTRONIC™ BUS CANBUS	PVC	✓	●	-20 ~ 70	10D
LONGTRONIC™ BUS CANBUS FD	PUR	✓	●	-40 ~ 80	10D
LONGTRONIC™ BUS CC-Link	PVC	✓	●	-20 ~ 70	10D
LONGTRONIC™ BUS CC-Link FD	PUR	✓	●	-40 ~ 80	7.5D
LONGTRONIC™ BUS DeviceNet	PVC	✓	●	-20 ~ 70	15D
	LSZH	✓	●	-40 ~ 80	15D
	PUR	✓	●	-40 ~ 80	15D
LONGTRONIC™ BUS DeviceNet FD	PVC	✓	●	-40 ~ 80	10D
	PUR	✓	●	-40 ~ 80	10D
LONGTRONIC™ BUS INTERBUS	PVC	✓	●	-20 ~ 70	10D
	PUR	✓	●	-40 ~ 80	10D
LONGTRONIC™ BUS RS-485	PVC	✓	●	-20 ~ 70	8D
LONGTRONIC™ BUS RS-485 FD	PUR	✓	●	-40 ~ 80	8D
LONGTRONIC™ BUS AS-Interface	PVC		○	-40 ~ 80	10D
	TPE		○	-40 ~ 80	10D
LONGTRONIC™ BUS KNX/EIB	PVC	✓	○	-20 ~ 70	15D
Low-Frequency Data Cables					
LONGTRONIC™ LF-DATA Li2YCYv-TP	PVC	✓	●	-40 ~ 80	6D
LONGTRONIC™ LF-DATA Li2YCY PiMF	PVC	✓	●	-40 ~ 80	10D
LONGTRONIC™ LF-DATA Li2YCY-TP	PVC	✓	●	-40 ~ 80	6D
LONGTRONIC™ LF-DATA LiYCY-CY-TP	PVC	✓	●	-40 ~ 80	7.5D
LONGTRONIC™ LF-DATA LiYCY-TP	PVC	✓	●	-40 ~ 80	6D
LONGTRONIC™ LF-DATA LiYCY	PVC	✓	●	-40 ~ 80	6D
LONGTRONIC™ LF-DATA LiYY-TP	PVC		●	-40 ~ 80	4D
LONGTRONIC™ LF-DATA LiYY	PVC		●	-40 ~ 80	4D
Sensor Cables					
LONGTRONIC™ SENSOR 306	PVC		●	-40 ~ 80	4D
LONGTRONIC™ SENSOR 306 P	PUR		●	-40 ~ 80	4D
LONGTRONIC™ SENSOR 306 CY	PVC	✓	●	-40 ~ 80	4D
LONGTRONIC™ SENSOR 306 CP	PUR	✓	●	-40 ~ 80	4D
LONGTRONIC™ SENSOR 307	PVC		●	-40 ~ 80	4D
LONGTRONIC™ SENSOR FD 307 P	PUR		●	-40 ~ 80	4D
LONGTRONIC™ SENSOR 307 CY	PVC	✓	●	-40 ~ 80	4D
LONGTRONIC™ SENSOR FD 307 CP	PUR	✓	●	-40 ~ 80	4D

Application Symbol Identification: ○ Fixed Application ● Fixed Application or Occasional Moving ● Drag Chain Application

Quick Selection Guide

Rated Voltage	Temperature Range(℃) Flexible Application	Min.Bending Radius Flexible Application	Flame Resistance	Halogen-free	Pages
300V			✓		47
300V			✓	✓	
300V			✓	✓	
300V				✓	
300V	-5 ~ 70	15D	✓		48
300V	-20 ~ 70	15D	✓	✓	
300V			✓		49
300V				✓	
300V			✓	✓	
300V			✓	✓	
300V			✓		50
300V			✓	✓	
300V			✓		51
300V			✓	✓	
300V	-5 ~ 60	15D	✓		52
300V	-20 ~ 70	15D	✓	✓	53
300V	-5 ~ 60	15D	✓		54
300V	-20 ~ 70	15D	✓	✓	55
300V	-5 ~ 60	15D	✓		56
300V	-20 ~ 70	15D	✓	✓	57
300V	-5 ~ 60	15D	✓		58
300V	-5 ~ 70	15D	✓	✓	
300V	-20 ~ 70	15D	✓	✓	
300V	-5 ~ 60	15D	✓		59
300V	-20 ~ 70	15D	✓	✓	
300V	-5 ~ 60	15D	✓		60
300V	-20 ~ 70	15D	✓	✓	
	-5 ~ 60	15D	✓		61
	-20 ~ 70	15D	✓	✓	62
300V			✓		63
300V			✓	✓	
250V			✓		64
250V	-5 ~ 70	15D	✓		66
250V	-5 ~ 70	20D	✓		67
250V	-5 ~ 70	15D	✓		69
0.14mm ² =350V, > 0.14mm ² =500V	-5 ~ 70	15D	✓		70
0.14mm ² =350V, > 0.14mm ² =500V	-5 ~ 70	15D	✓		72
0.14mm ² =350V, > 0.14mm ² =500V	-5 ~ 70	15D	✓		74
0.14mm ² =350V, > 0.14mm ² =500V	-5 ~ 70	10D	✓		76
0.14mm ² =350V, > 0.14mm ² =500V	-5 ~ 70	10D	✓		78
300V	-5 ~ 70	7.5D	✓		81
300V	-5 ~ 70	7.5D	✓		82
300V	-5 ~ 70	7.5D	✓		83
300V	-5 ~ 70	7.5D	✓		84
300V	-5 ~ 70	7.5D	✓		85
300V	-20 ~ 70	7.5D	✓	✓	86
300V	-5 ~ 70	7.5D	✓		87
300V	-20 ~ 70	7.5D	✓	✓	88

Quick Selection Guide

Cable Series	Outer Jacket	Shield	Laying Category	Temperature Range(°C) Fixed Application	Min.Bending Radius Fixed Application
Motion Control Cable					
LONGFLEX™ MC 410	PVC		●	-40 ~ 80	4D
LONGFLEX™ MC 410 CY	PVC	✓	●	-40 ~ 80	6D
LONGFLEX™ MC 411	PVC		●	-40 ~ 80	4D
LONGFLEX™ MC 411 CY	PVC	✓	●	-40 ~ 80	6D
LONGFLEX™ MC 412 CY	PVC	✓	●	-40 ~ 80	6D
LONGFLEX™ MC 710 P	PUR		●	-40 ~ 80	4D
LONGFLEX™ MC 710 CP	PUR	✓	●	-40 ~ 80	6D
LONGFLEX™ MC 712 CP	PUR	✓	●	-40 ~ 80	6D
LONGFLEX™ MC 817 P	PUR		●	-50 ~ 90	4D
LONGFLEX™ MC 817 CP	PUR	✓	●	-50 ~ 90	6D
Drag Chain Cables					
LONGFLEX™ CHAIN FD 403	PVC		●	-40 ~ 80	3D
LONGFLEX™ CHAIN 420	PVC		●	-40 ~ 80	4D
LONGFLEX™ CHAIN 420 CY	PVC	✓	●	-40 ~ 80	4D
LONGFLEX™ CHAIN 421	PVC		●	-40 ~ 80	4D
LONGFLEX™ CHAIN 421 CY	PVC	✓	●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 430	PVC		●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 430 CY	PVC	✓	●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 430 TP	PVC		●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 430 CY-TP	PVC	✓	●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 431	PVC		●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 431 TP	PVC		●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 431 CY	PVC	✓	●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 431 CY-TP	PVC	✓	●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 437	PVC		●	-40 ~ 90	4D
LONGFLEX™ CHAIN FD 437 CY	PVC	✓	●	-40 ~ 90	4D
LONGFLEX™ CHAIN FD 440	PVC		●	-5 ~ 70	4D
LONGFLEX™ CHAIN 720 P	PUR		●	-40 ~ 80	4D
LONGFLEX™ CHAIN 720 CP	PUR	✓	●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 730 P	PUR		●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 730 CP	PUR	✓	●	-40 ~ 80	4D
LONGFLEX™ CHAIN FD 837 P	PUR		●	-50 ~ 90	4D
LONGFLEX™ CHAIN FD 837 CP	PUR	✓	●	-50 ~ 90	4D
Servo Cables					
LONGFLEX™ SERVO 310	PVC		●	-40 ~ 80	6D
LONGFLEX™ SERVO 310 CY	PVC	✓	●	-40 ~ 80	6D
LONGFLEX™ SERVO 317 CY	PVC	✓	●	-40 ~ 90	6D
LONGFLEX™ SERVO FD 320 CY	PVC	✓	●	-40 ~ 80	4D
LONGFLEX™ SERVO FD 327 P	PUR		●	-50 ~ 90	4D
LONGFLEX™ SERVO FD 327 CP	PUR	✓	●	-50 ~ 90	4D
LONGFLEX™ SERVO FD 330 CP	PUR	✓	●	-40 ~ 80	4D
LONGFLEX™ SERVO FD 318 CY	PVC	✓	●	-40 ~ 105	4D
LONGFLEX™ SERVO FD 340 CP	PUR	✓	●	-20 ~ 60	4D
Robot Cables					
LONGFLEX™ ROBOTIC FD 938 CY	PVC	✓	●	-40 ~ 105	3D
LONGFLEX™ ROBOTIC FD 938 CY-TP	PVC	✓	●	-40 ~ 105	3D
LONGFLEX™ ROBOTIC FD 930 CP	PUR	✓	●	-50 ~ 90	3D
LONGFLEX™ ROBOTIC FD 930 CP-TP	PUR	✓	●	-50 ~ 90	3D
LONGFLEX™ ROBOTIC HYBRID	PUR	✓	●	-40 ~ 80	10D

Application Symbol Identification: ○ Fixed Application ● Fixed Application or Occasional Moving ● Drag Chain Application

Quick Selection Guide

Rated Voltage	Temperature Range(°C) Flexible Application	Min.Bending Radius Flexible Application	Lifetime of Towline (1 million cycle)	Flame Resistance	Halogen -free	Pages
300/500V,450/750V	-5 ~ 70	15D		✓		90
300/500V,450/750V	-5 ~ 70	20D		✓		94
300/500V,450/750V	-5 ~ 70	15D		✓		97
300/500V,450/750V	-5 ~ 70	20D		✓		101
300/500V	-5 ~ 70	20D		✓		104
300/500V	-5 ~ 70	12.5D		✓		106
300/500V	-5 ~ 70	20D		✓		108
300/500V	-5 ~ 70	20D		✓		110
300/500V	-5 ~ 70	12.5D		✓	✓	112
300/500V	-5 ~ 70	15D		✓	✓	114
300/500V	-5 ~ 70	7.5D	3 ~ 8	✓		117
300/500V	-5 ~ 70	10D	1 ~ 3	✓		118
300/500V	-5 ~ 70	10D	1 ~ 3	✓		120
300V	-5 ~ 70	10D	1 ~ 3	✓		122
300V	-5 ~ 70	10D	1 ~ 3	✓		124
300/500V	-5 ~ 70	7.5D	3 ~ 8	✓		126
300/500V	-5 ~ 70	7.5D	3 ~ 8	✓		128
300V	-5 ~ 70	7.5D	3 ~ 8	✓		130
300V	-5 ~ 70	7.5D	3 ~ 8	✓		132
30V	-5 ~ 70	7.5D	3 ~ 8	✓		134
30V	-5 ~ 70	7.5D	3 ~ 8	✓		136
30V	-5 ~ 70	7.5D	3 ~ 8	✓		138
30V	-5 ~ 70	7.5D	3 ~ 8	✓		140
300/500V	-5 ~ 90	7.5D	3 ~ 8	✓		142
300/500V	-5 ~ 90	7.5D	3 ~ 8	✓		144
300/500V	-40 ~ 80	7.5	5 ~ 10	✓		146
300/500V	-5 ~ 70	10D	1 ~ 3	✓		148
300/500V	-5 ~ 70	10D	1 ~ 3	✓		150
300/500V	-5 ~ 70	7.5D	3 ~ 8	✓		152
300/500V	-5 ~ 70	7.5D	3 ~ 8	✓		154
300/500V	-40 ~ 80	7.5D	≥20	✓	✓	156
300/500V	-40 ~ 80	7.5D	≥20	✓	✓	158
Power wires: 600/1000V, Signal wires: 300/500V	-5 ~ 70	20D		✓		161
Power wires: 600/1000V, Signal wires: 300/500V	-5 ~ 70	20D		✓		162
Power wires: 600/1000V, Signal wires: 300/500V	-5 ~ 90	15D		✓		163
600/1000V	-5 ~ 70	7.5D	3 ~ 8	✓		164
600/1000V	-40 ~ 90	7.5D	3 ~ 8	✓	✓	165
600/1000V	-40 ~ 90	7.5D	3 ~ 8	✓	✓	166
UL/CSA 600V,IEC/VDE ≤0.5mm²: 300/500V, > 0.5mm²: 450/750V	-40 ~ 80	7.5D	≥10	✓	✓	168
UL/CSA 600V,IEC/VDE ≤0.5mm²: 300/500V, > 0.5mm²: 450/750V	-5 ~ 105	7.5D	3 ~ 8	✓		169
30V	-50 ~ 80	7.5D	5~10	✓		170
UL/CSA 300V,IEC/VDE ≤0.5mm²: 300/300V, > 0.5mm²: 300/550V	-5 ~ 105	5D	≥10	✓		172
UL/CSA 300V,IEC/VDE ≤0.5mm²: 300/300V, > 0.5mm²: 300/550V	-5 ~ 105	5D	≥10	✓		174
UL/CSA 300V,IEC/VDE ≤0.5mm²: 300/300V, > 0.5mm²: 300/550V	-40 ~ 80	5D	≥10	✓	✓	176
UL/CSA 30V,UL/CSA 600V,DIN/VDE 450/750V	-40 ~ 80	5D	≥10	✓	✓	178
				✓	✓	181

Quick Selection Guide

Cable Series	Outer Jacket	Shield	Laying Category	Temperature Range(°C) Fixed Application	Min.Bending Radius Fixed Application
High-Temperature Cables					
LONGHEAT™ SC 105 PVC	PVC		●	-20 ~ 105	4D
LONGHEAT™ MC 105 PVC	PVC		●	-20 ~ 105	4D
LONGHEAT™ SC 125 XLPO	XLPO		○	-40 ~ 125	4D
LONGHEAT™ MC 125 XLPO	XLPO		●	-20 ~ 125	4D
LONGHEAT™ SC 205 FEP	FEP		○	-60 ~ 205	
LONGHEAT™ SC 250 PFA	PFA		○	-60 ~ 250	
Electrical Installation Cables					
H05VV-F	PVC		●	-15 ~ 70	6D
H03VV-F	PVC		●	-15 ~ 70	6D
H05-K,H07V-K	PVC		●	-15 ~ 70	4D
RVVYP	PVC	✓	●	-15 ~ 70	6D
RVVY	PVC		●	-15 ~ 70	6D
RVVP	PVC	✓	●	-15 ~ 70	6D
RVV	PVC		●	-15 ~ 70/90	6D
RV	PVC		●	-15 ~ 70/90	4D

Cable Series	Outer Jacket	Shield	Laying Category	Flame Resistance	Pages
Machine Vision Assemblies					
Gigabit Ethernet CAT5e	PVC	✓	●	✓	213
Camera Link	PVC	✓	●	✓	214
USB 3.0	PVC	✓	●	✓	215
Ethernet Cable Assemblies					
PROFINET TYPE A Assemblies M12-M12	PVC/LSZH	✓	○	✓	216
PROFINET TYPE A Assemblies M12-RJ45	PVC/LSZH	✓	○	✓	217
PROFINET TYPE A Assemblies RJ45-RJ45	PVC/LSZH	✓	○	✓	218
PROFINET TYPE B Assemblies M12-M12	PVC/LSZH	✓	●	✓	219
PROFINET TYPE B Assemblies M12-RJ45	PVC/LSZH	✓	●	✓	220
PROFINET TYPE B Assemblies RJ45-RJ45	PVC/LSZH	✓	●	✓	221
PROFINET TYPE C Assemblies M12-M12	PVC/PUR	✓	●	✓	222
PROFINET TYPE C Assemblies M12-RJ45	PVC/PUR	✓	●	✓	223
PROFINET TYPE C Assemblies RJ45-RJ45	PVC/PUR	✓	●	✓	225
CAT5e RJ45-RJ45	PVC/LSZH/PUR	✓	●	✓	226
FD CAT5e RJ45-RJ45	PVC/PUR	✓	●	✓	227
CAT6 RJ45-RJ45	PVC/LSZH/PUR	✓	●	✓	228
CAT6A RJ45-RJ45	PVC/LSZH/PUR	✓	●	✓	229
M12 X-code-M12 X-code	PVC/LSZH/PUR	✓	●	✓	230
M12 X-code-RJ45	PVC/LSZH/PUR	✓	●	✓	231
M12-M12	PVC/LSZH/PUR	✓	●	✓	232
M12-RJ45	PVC/LSZH/PUR	✓	●	✓	233
M8-M8	PVC/LSZH/PUR	✓	●	✓	234
M8-RJ45	PVC/LSZH/PUR	✓	●	✓	235

Application Symbol Identification: ○ Fixed Application ● Fixed Application or Occasional Moving ● Drag Chain Application

Quick Selection Guide

Rated Voltage	Temperature Range(°C) Flexible Application	Min.Bending Radius Flexible Application	Flame Resistance	Halogen -free	Pages
600V			✓		185
300/500V			✓		186
450/750V			✓	✓	187
300/500V			✓	✓	188
30V			✓		190
30V			✓		191
300/500V	-5 ~ 60	15D	✓		193
300/300V	-5 ~ 60	15D	✓		194
H05V-K 300/500V,H07V-K 450/750V	-5 ~ 60/80	12D	✓		195
300/500V	-5 ~ 60	15D	✓		196
300/500V	-5 ~ 60	15D	✓		198
300/300V	-5 ~ 60	15D	✓		200
60227 IEC 52 (RVV) 300/300V,60227 IEC 53 (RVV) 300/500V,60227 IEC 56 (RVV-90) 300/300V,60227 IEC 57 (RVV-90) 300/500V	-5 ~ 60	15D	✓		202
60227 IEC 02 (RV) 450/750V,60227 IEC 06 (RV) 300/500V,60227 IEC 08 (RV-90) 300/500V	-5 ~ 60/80	12D	✓		204

Cable Series	Outer Jacket	Shield	Laying Category	Flame Resistance	Pages
Bus Cable Assemblies					
PROFIBUS Assemblies M12-M12	PVC/PUR	✓	●	✓	236
DeviceNet/CANopen Assemblies M12-M12	PVC/PUR	✓	●	✓	237
D-SUB Assemblies					
DB9 Assemblies	PVC	✓	●	✓	238
DB15 Assemblies	PVC	✓	●	✓	239
DB25 Assemblies	PVC	✓	●	✓	240
DB37 Assemblies	PVC	✓	●	✓	241
Sensor Cable Assemblies					
3 Pole M8 Assemblies	PVC/PUR		●/●	✓	242
3 Pole M8 shield Assemblies	PVC/PUR	✓	●/●	✓	244
4 Pole M8 Assemblies	PVC/PUR		●/●	✓	246
4 Pole M8 shield Assemblies	PVC/PUR	✓	●/●	✓	248
5 Pole M8 Assemblies	PVC/PUR		●/●	✓	250
5 Pole M8 shield Assemblies	PVC/PUR	✓	●/●	✓	252
3 Pole M12 Assemblies	PVC/PUR		●/●	✓	254
3 Pole M12 shield Assemblies	PVC/PUR	✓	●/●	✓	256
4 Pole M12 shield Assemblies	PVC/PUR	✓	●/●	✓	258
4 Pole M12 shield Assemblies	PVC/PUR	✓	●/●	✓	260
5 Pole M12 Assemblies	PVC/PUR		●/●	✓	262
5 Pole M12 shield Assemblies	PVC/PUR	✓	●/●	✓	263
8 Pole M12 Assemblies	PVC/PUR		●/●	✓	264
8 Pole M12 shield Assemblies	PVC/PUR	✓	●/●	✓	265
Servo Motor Apecial Assemblies					
Servo motor special assemblies	PVC	✓	●	✓	266
Servo motor special assemblies	PUR	✓	●	✓	267

LONGTRONIC™ Ethernet Cables

- Our company has been focus on the research and development, design and manufacture of communication cables.
- Our products include CAT8, CAT7A, CAT7, CAT6A, CAT6 and CAT 5e, star-quad cables, armored cables and hybrid cables, etc.
- Our products have excellent electrical performance which is authorized by authorities (UL, ETL and DELTA) and our customers. The star-quad cables which is made by professional star-quad equipments have excellent transmission performance and smaller product O.D.
- Our flame retardant rating is diversified such as EC 60332-3-22, IEC60332-3-24, IEC60332-1, CMP, CMR, CM, CMX, FT4, CL2, VW-1.
- We can provide cable products used in the ranges of -80°C - 200°C .
- Products can be applied in factory automation, wind power systems, CNC machine tools, rail transportation, maritime ships, robots and other fields.
- We're PI Association Member(Profinet), CLPA Association Member(CC-Link IE), and EtherCAT Association Member(EtherCAT).
- Our products have excellent environmental protection performance and reach RoHS requirements.
- Star Products :
 - **PROFINET TYPE A/B/C** P.40-42
 - **EtherCAT PoE** P.44
 - **CC-Link IE** P.45
 - **Wind Energy Cables** P.38
 - **Locomotive Cables** P.39
 - **Marine Cables** P.34-36
 - **10 Gigabit Cables CAT8, CAT7A, CAT7, CAT6A, CAT6** P.19-26
 - **High-intensity Flexible Motion Cables FD CAT5e** P.32
- Relevant Cable Assemblies, please refer to chapters in the «Connecting Technology». And **RJ45 series and M series products** are in P.216-235.



Ethernet Cables

LONGTRONIC™ ETHERNET CAT8



ZHAOLONG LONGTRONIC™ ETHERNET CAT8 S/FTP 4PR 23AWG PVC IEC60332-1 ***m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. For application in LANs like IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T. And it can be also applied in the industrial environment.



Technical Data

- Temperature Range
PVC : -20°C ~70°C
LSZH : -40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω@100MHz
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application : 10D (D=cable diameter)
- Reference Standard
IEC61156-9

Cable Construction

- Conductor : solid bare copper
- Insulation : Foamed PE
- Shield : AL/Mylar individual screen and tinned copper wire overall braid
- Jacket : See the table below
- Color : Yellow

Properties

- Flame resistance of cable according to IEC60332-1
- AL/Mylar individual screen and tinned copper wire braid
- Have excellent performance of resistant to external EMI
- Transmission of signals up to 2000 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5207003	S/FTP 4X2X23AWG/1	PVC	9.0	33.6	84.1
ZL5207004	S/FTP 4X2X23AWG/1	LSZH	9.0	33.6	84.8

LONGTRONIC™

LONGTRONIC™ ETHERNET CAT7A



ZHAOLONG LONGTRONIC™ ETHERNET CAT7A S/FTP 4PR 23AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. For application in LANs like IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T. And it can be also applied in the industrial environment.



Technical Data

- Temperature Range
PVC : -20°C ~70°C
LSZH : -40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω@100MHz
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application : 8D (D=cable diameter)
- Reference Standard
IEC61156-5
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation : Foamed PE
- Shield : AL/Mylar individual screen and tinned copper wire overall
- Jacket : See the table below
- Color : Yellow

Properties

- Flame resistance of cable according to IEC60332-1
- AL/Mylar individual screen and tinned copper wire braid
- Have excellent performance of resistant to external EMI
- Transmission of signals up to 1000 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5206004	S/FTP 4X2X23AWG/1	PVC	7.8	42.0	78.3
ZL5206005	S/FTP 4X2X23AWG/1	LSZH	7.8	42.0	78.3

Ethernet Cables

LONGTRONIC™ ETHERNET CAT7



ZHAOLONG LONGTRONIC™ ETHERNET CAT7 S/FTP 4PR 23AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. For application in LANs like IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T. And it can be also applied in the industrial environment.



Technical Data

- Temperature Range
PVC : -20°C ~70°C
LSZH : -40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω@100MHz
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application : 8D (D=cable diameter)
- Reference standard
IEC61156-5
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation : Foamed PE
- Shield : AL/Mylar individual screen and tinned copper wire overall braid
- Jacket : See the table below
- Color : Yellow

Properties

- Flame resistance of cable according to IEC60332-1
- AL/Mylar individual screen and tinned copper wire braid
- Have excellent performance of resistant to external EMI
- Transmission of signals up to 600 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5205017	S/FTP 4X2X23AWG/1	PVC	7.6	70.6	72.2
ZL5205018	S/FTP 4X2X23AWG/1	LSZH	7.6	70.6	72.2

LONGTRONIC™

LONGTRONIC™ ETHERNET FLEX CAT7



ZHAOLONG LONGTRONIC™ ETHERNET FLEX CAT7 S/FTP 4PR 26AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. Very suitable for limited flexible application in cablings systems of machine, equipment, instrument and control cabinet.



Technical Data

—Temperature Range

Fixed Applications :

PVC : -20°C ~70°C

LSZH/PUR : -40°C ~80°C

Occasional Movement :

PVC : -5°C ~60°C

LSZH/PUR : -5°C ~70°C

—Test Voltage

1000V/min (DC)

—Characteristic Impedance

100±15Ω@100MHz

—Insulation Resistance

≥5GΩ.km

—Minimum Bending Radius

Fixed Application: 8D(D=cable diameter)

Occasional Movement : 15D (D=cable diameter)

—Reference Standard

IEC61156-5, EN50173&ISO/IEC11801

Cable Construction

Conductor : Stranded bare copper conductor

Insulation : Foamed PE

Shield : AL/Mylar individual screen and tinned copper wire overall braid

Color : Yellow

Properties

Flame resistance of cable according to IEC60332-1

AL/Mylar individual screen and tinned copper wire braid

Have excellent performance of resistant to external EMI

PUR jacket cable has good properties of oil resistance and abrasion resistance

Transmission of signals up to 600 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5205019	S/FTP 4X2X26AWG/7	PVC	6.1	29.2	54.7
ZL5205020	S/FTP 4X2X26AWG/7	LSZH	6.1	29.2	54.7
ZL5205021	S/FTP 4X2X26AWG/7	PUR	6.1	29.2	52.6

Ethernet Cables

LONGTRONIC™ ETHERNET CAT6A



ZHAOLONG LONGTRONIC™ ETHERNET CAT6A S/FTP 4PR 23AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. For application in LANs like IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T. And it can be also applied in the industrial environment.



Technical Data

- Temperature Range
PVC: -20°C ~70°C
LSZH: -40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic impedance
100±15Ω@100MHz
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application: 8D (D=cable diameter)
- Reference Standard
IEC61156-5, ANSI/TIA-568-C.2
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation: Foamed PE
- U/FTP : AL/Mylar individual screen
- F/FTP : AL/Mylar individual screen and AL/Myalr overall screen
- S/FTP : AL/Mylar individual screen and tinned copper wire overall braid
- Jacket : See the table below
- Color: Yellow

Properties

- Flame resistance of cable according to IEC60332-1
- Shield cables have excellent performance of resistant to external EMI, especially for S/FTP
- Transmission of signals up to 500 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5204054	U/UTP 4X2X23AWG/1	PVC	7.1	18.1	50.0
ZL5204055	U/FTP 4X2X23AWG/1	PVC	7.3	20.3	52.1
ZL5204056	F/FTP 4X2X23AWG/1	PVC	7.5	20.3	54.7
ZL5204057	S/FTP 4X2X23AWG/1	PVC	7.6	40.6	72.2
ZL5204058	U/UTP 4X2X23AWG/1	LSZH	7.1	18.1	50.0
ZL5204059	U/FTP 4X2X23AWG/1	LSZH	7.3	20.3	52.1
ZL5204060	F/FTP 4X2X23AWG/1	LSZH	7.5	20.3	54.7
ZL5204061	S/FTP 4X2X23AWG/1	LSZH	7.6	40.6	72.2

LONGTRONIC™

LONGTRONIC™ ETHERNET FLEX CAT6A



ZHAOLONG LONGTRONIC™ ETHERNET FLEX CAT6A S/FTP 4PR 26AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. Very suitable for limited flexible application in cablings systems of machine, equipment, instrument and control cabinet.



Technical Data

—Temperature Range

Fixed Applications :

PVC : -20°C ~70°C

LSZH/PUR : -40°C ~80°C

Occasional Movement :

PVC : -5°C ~60°C

LSZH/PUR : -5°C ~70°C

—Test Voltage

1000V/min (DC)

—Characteristic Impedance

100±15Ω@100MHz

—Insulation Resistance

≥5GΩ.km

—Minimum Bending Radius

Fixed Applications : 8D (D=cable diameter)

Occasional Movement : 15D (D=cable diameter)

—Reference Standard

IEC61156-5, ANSI/TIA-568-C.2

EN50173&ISO/IEC11801

Cable Construction

Conductor : Stranded bare copper

Insulation : Foamed PE

U/FTP : AL/Mylar individual screen

F/FTP : AL/Mylar individual and overall screen

S/FTP : AL/Mylar individual screen and tinned copper wire overall braid

Jacket : See the table below

Color : Yellow

Properties

Flame resistance of cable according to IEC60332-1

Have excellent performance of resistant to external EMI, especially for S/FTP

PUR jacket cable has good properties of oil resistance and abrasion resistance

Transmission of signals up to 500 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5204062	U/FTP 4X2X26AWG/7	PVC	5.9	12.2	36.8
ZL5204063	F/FTP 4X2X26AWG/7	PVC	6.1	12.2	38.4
ZL5204064	S/FTP 4X2X26AWG/7	PVC	6.1	29.2	54.7
ZL5204065	U/FTP 4X2X26AWG/7	LSZH	5.9	12.2	36.8
ZL5204066	F/FTP 4X2X26AWG/7	LSZH	6.1	12.2	38.4
ZL5204067	S/FTP 4X2X26AWG/7	LSZH	6.1	29.2	54.7
ZL5204068	S/FTP 4X2X26AWG/7	PUR	6.1	29.2	52.6

Ethernet Cables

LONGTRONIC™ ETHERNET CAT6



ZHAOLONG LONGTRONIC™ ETHERNET CAT6 SF/UTP 4PR 23AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. For application in LANs like IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T. And it can be also applied in the industrial environment.



Technical Data

- Temperature Range
PVC : -20°C ~70°C
LSZH : -40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Applications : 8D (D=cable diameter)
- Reference Standard
IEC61156-5, ANSI/TIA-568-C.2
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation : PE
- U/UTP : Without shield
- F/UTP : AL/Mylar overall screen
- SF/UTP : AL/Mylar overall screen and tinned copper wire overall braid
- Jacket : See the table below
- Color : Grey

Properties

- Flame resistance of cable according to IEC60332-1
- AL/Mylar individual screen and tinned copper wire braid
- Have excellent performance of resistant to external EMI
- Transmission of signals up to 250 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5203005	U/UTP 4X2X23AWG/1	PVC	6.3	18.9	43.3
ZL5203006	F/UTP 4X2X23AWG/1	PVC	7.4	20.3	50.5
ZL5203007	SF/UTP 4X2X23AWG/1	PVC	7.8	40.9	76.3
ZL5203008	U/UTP 4X2X23AWG/1	LSZH	6.3	18.9	43.3
ZL5203009	F/UTP 4X2X23AWG/1	LSZH	7.4	20.3	50.5
ZL5203010	SF/UTP 4X2X23AWG/1	LSZH	7.8	40.9	76.3

LONGTRONIC™

LONGTRONIC™ ETHERNET CAT6 CMP



ZHAOLONG LONGTRONIC™ ETHERNET CAT6 CMP F/UTP 4PR 23AWG ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer rooms, hospitals, libraries and high-rise buildings. Very suitable for the place with high flame resistance requirement. And it can be also applied in the industrial environment.



Technical Data

- Temperature Range
PVC : -20°C ~70°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application : 8D (D=cable diameter)
- Reference Standard
IEC61156-5
ANSI/TIA-568-C.2
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation : FEP
- U/UTP : Without shield
- F/UTP : AL/Myalr overall screen
- Jacket : High flame-retardant PVC
- Color : Grey

Properties

- High flame resistance according to CMP
- Cable needn't go through the cable duct when cabling, open cabling is viable
- Save enormous space and time of cabling
- Transmission of signals up to 250 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5203011	U/UTP 4X2X23AWG/1	PVC	5.9	18.4	42.9
ZL5203012	F/UTP 4X2X23AWG/1	PVC	7.0	19.9	64.0

Ethernet Cables

LONGTRONIC™ ETHERNET FLEX CAT6



ZHAOLONG LONGTRONIC™ ETHERNET FLEX CAT6 SF/UTP 4PR 26AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. Shielded cables are very suitable for limited flexible application in cablings systems of machine, equipment, instrument and control cabinet.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC: -20°C ~70°C
 - LSZH/PUR : -40°C ~80°C
 - Occasional Movement :
 - PVC : -5°C ~60°C
 - LSZH/PUR: -5°C ~70°C
- Test Voltage
 - 1000V/min (DC)
- Characteristic Impedance
 - 100±15Ω
- Insulation Resistance
 - ≥5GΩ.km
- Minimum Bending Radius
 - Fixed Applications : 8D (D=cable diameter)
 - Occasional Movement : 15D (D=cable diameter)
- Reference standard
 - IEC61156-5, ANSI/TIA-568-C.2, EN50173&ISO/IEC11801

Cable Construction

- Conductor : Stranded bare copper
- Insulation : PE
- U/UTP : Without shield
- F/UTP : AL/Myalr overall screen
- SF/UTP : AL/Myalr overall screen and tinned copper wire overall braid
- Jacket : See the table below
- Color : Grey

Properties

- Flame resistance of cable according to IEC60332-1
- Shielded cables have excellent performance of resistant to external EMI, especially for SF/UTP
- Transmission of signals up to 250 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5203013	U/UTP 4X2X26AWG/7	PVC	5.4	10.6	32.6
ZL5203014	F/UTP 4X2X26AWG/7	PVC	6.1	12.0	40.7
ZL5203015	SF/UTP 4X2X26AWG/7	PVC	6.5	28.1	56.3
ZL5203016	U/UTP 4X2X26AWG/7	LSZH	5.4	10.6	32.6
ZL5203017	F/UTP 4X2X26AWG/7	LSZH	6.1	12.0	40.7
ZL5203018	SF/UTP 4X2X26AWG/7	LSZH	6.5	28.1	56.3
ZL5203019	SF/UTP 4X2X26AWG/7	PUR	6.5	28.1	45.3
ZL5203020	U/UTP 4X2X24AWG/7	PVC	6.1	16.5	42.3
ZL5203021	F/UTP 4X2X24AWG/7	PVC	6.6	18.0	51.0
ZL5203022	SF/UTP 4X2X24AWG/7	PVC	7.0	35.4	66.7
ZL5203023	U/UTP 4X2X24AWG/7	LSZH	6.1	16.5	42.3
ZL5203024	F/UTP 4X2X24AWG/7	LSZH	6.6	18.0	51.0
ZL5203025	SF/UTP 4X2X24AWG/7	LSZH	7.0	35.4	66.7
ZL5203026	SF/UTP 4X2X24AWG/7	PUR	7.0	35.4	65.3
ZL5203003	SF/UTP 4X2X24AWG/19	PVC	7.1	35.5	67.1
ZL5203004	SF/UTP 4X2X24AWG/19	PUR	7.1	35.5	64.0

LONGTRONIC™

LONGTRONIC™ ETHERNET SPECIAL CAT6



ZHAOLONG LONGTRONIC™ ETHERNET SPECIAL CAT6 F/UTP 4PR 23AWG NYLON ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of mines, tunnes and other outdoor area there are plagues of pests, rodents and termites.Suitable for fixed installation and buried.



Technical Data

- Temperature Range
-40℃ ~80℃
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application :
15D (D=cable diameter)
- Reference Standard
IEC61156-5,ANSI/TIA-568-C.2
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation : PE
- Shield : AL/Mylar screen
- Inner Jacket : LSZH
- Armoured : Galvanized steel wire braid
- Jacket : Nylon
- Color : Black

Properties

- Pest resistance, anti-rodent,anti-termite
- Good properties of tensile strength and abrasion resistance
- AL/Mylar screen, have good performance of resistant to external EMI
- Transmission of signals up to 250 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5203027	F/UTP 4X2X23AWG/1	Nylon	9.4	20.5	126.2

Ethernet Cables

LONGTRONIC™ ETHERNET CAT5e



ZHAOLONG LONGTRONIC™ ETHERNET CAT5E SF/UTP 4PR 24AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. For application in LANs like IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T. And it can be also applied in the industrial environment.



Technical Data

- Temperature Range
PVC : -20°C ~70°C
LSZH : -40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application : 8D (D=cable diameter)
- Reference Standard
IEC61156-5, ANSI/TIA-568-C.2
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation : PE
- U/UTP : Without shield
- F/UTP : AL/Myalr overall screen
- SF/UTP : AL/Mylar overall screen and tinned copper wire overall braid
- Jacket : See the table below
- Color : Grey

Properties

- Flame resistance of cable according to IEC60332-1
- Shielded cables have excellent performance of resistant to external EMI, especially for SF/UTP
- Transmission of signals up to 100 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5202009	U/UTP 4X2X24AWG/1	PVC	5.0	14.5	29.3
ZL5202010	F/UTP 4X2X24AWG/1	PVC	6.2	16.2	39.9
ZL5202011	SF/UTP 4X2X24AWG/1	PVC	6.6	33.0	60.4
ZL5202012	U/UTP 4X2X24AWG/1	LSZH	5.0	14.7	30.6
ZL5202013	F/UTP 4X2X24AWG/1	LSZH	6.2	16.2	39.9
ZL5202014	SF/UTP 4X2X24AWG/1	LSZH	6.6	33.0	60.4

LONGTRONIC™

LONGTRONIC™ ETHERNET CAT5e CMP



ZHAOLONG LONGTRONIC™ ETHERNET CAT5e CMP F/UTP 4PR 24AWG ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer rooms, hospitals, libraries and high-rise buildings. Very suitable for the place with high flame resistance requirement. And it can be also applied in the industrial environment.



Technical Data

- Temperature Range
PVC : -20°C ~70°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application :
8D (D=cable diameter)
- Reference Standard
IEC61156-5, ANSI/TIA-568-C.2
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation : FEP
- U/UTP : Without shield
- F/UTP : AL/Myalr overall screen
- Jacket : High flame resistance PVC
- Color : Grey

Properties

- High flame resistance according to CMP
- Cable needn't go through the cable duct when cabling, open cabling is viable
- Save enormous space and time of cabling
- Transmission of signals up to 100 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5202015	U/UTP 4X2X24AWG/1	PVC	4.7	14.5	34.0
ZL5202016	F/UTP 4X2X24AWG/1	PVC	5.8	16.8	49.2

Ethernet Cables

LONGTRONIC™ ETHERNET FLEX CAT5e



ZHAOLONG LONGTRONIC™ ETHERNET FLEX CAT5E SF/UTP 4PR 26AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of cloud computing center, computer room, uptown, factories and other buildings. Shielded cables are very suitable for limited flexible application in cablings systems of machine, equipment, instrument and control cabinet.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - LSZH/PUR : -40°C ~80°C
 - Occasional Movement :
 - PVC : -5°C ~60°C
 - LSZH/PUR : -5°C ~70°C
- Test Voltage
 - 1000V/min (DC)
- Characteristic Impedance
 - 100±15Ω
- Insulation Resistance
 - ≥5GΩ.km
- Minimum Bending Radius
 - Fixed Application : 8D (D=cable diameter)
 - Occasional Movement : 15D (D=cable diameter)
- Reference Standard
 - IEC61156-5, ANSI/TIA-568-C.2
 - EN50173&ISO/IEC11801

Cable Construction

- Conductor : Stranded bare copper
- Insulation : PE
- U/UTP : Without shield
- F/UTP : AL/Mylar overall screen
- SF/UTP : AL/Mylar overall screen and tinned copper wire overall braid
- Jacket : See the table below
- Color : Grey

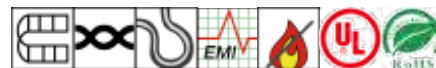
Properties

- Flame resistance of cable according to IEC60332-1
- Shielded cables have excellent performance of resistant to external EMI, especially for SF/UTP
- Transmission of signals up to 100 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5202017	U/UTP 4X2X26AWG/7	PVC	4.7	10.6	27.4
ZL5202018	F/UTP 4X2X26AWG/7	PVC	5.3	12.0	35.7
ZL5202019	SF/UTP 4X2X26AWG/7	PVC	5.7	24.4	47.2
ZL5202020	U/UTP 4X2X26AWG/7	LSZH	4.7	10.6	27.4
ZL5202021	F/UTP 4X2X26AWG/7	LSZH	5.3	12.0	35.7
ZL5202022	SF/UTP 4X2X26AWG/7	LSZH	5.7	24.4	47.2
ZL5202023	SF/UTP 4X2X26AWG/7	PUR	5.7	24.4	45.3

LONGTRONIC™

LONGTRONIC™ ETHERNET FD CAT5e



ZHAOLONG LONGTRONIC™ ETHERNET FD CAT5E SF/UTP 4PR 26AWG PUR IEC60332-1 ****m YY/MM/DD

Application

Be used as high speed data cables in numerical control machine, engraving machine, woodworking machinery and monitor. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC/PUR : -40°C ~80°C
 - Moved Application :
 - PVC/PUR : -5°C ~70°C
- Test voltage
 - 1000V/min (DC)
- Characteristic impedance
 - 100±15Ω
- Insulation resistance
 - ≥5GΩ.km
- Min bending radius
 - Fixed Application: 5D (D=cable diameter)
 - Moved Application : 10D (D=cable diameter)
- Application of drag chain : ≥10 million times (S/UTP model)
- Reference standard
 - IEC61156-5, ANSI/TIA-568-C.2
 - EN50173&ISO/IEC11801

Cable Construction

Conductor : Flexible stranded copper wire, according to IEC 60228/VDE 0295 class 6
 Insulation : PE
 S/UTP : Tinned copper wire overall braid
 SF/UTP : AL/Mylar overall screen and tinned copper wire overall braid
 Jacket: See the table below
 Color: Black

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility and small bending radius
 Have good performance of resistant to external EMI
 Oil resistance
 Transmission of signals up to 100 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5202036	SF/UTP 4X2X26AWG/19	PVC	6.2	23.5	52.6
ZL5202037	SF/UTP 4X2X26AWG/19	PUR	6.2	23.5	50.3
ZL5202038	S/UTP 4X2X26AWG/30	PVC	6.5	31.0	55.0
ZL5202024	S/UTP 4X2X26AWG/30	PUR	6.5	31.0	54.0

Ethernet Cables

LONGTRONIC™ ETHERNET SPECIAL CAT5e



ZHAOLONG LONGTRONIC™ ETHERNET SPECIAL CAT5E F/UTP 4PR 24AWG NYLON ****m YY/MM/DD

Application

Be used as high speed data cables in cablings systems of mines, tunnes and other outdoor area there are plagues of pests, rodents and termites.Suitable for fixed installation and buried.



Technical Data

- Temperature Range
-40°C ~80°C
- Test voltage
1000V/min (DC)
- Characteristic impedance
100±15Ω
- Insulation resistance
≥5GΩ.km
- Min bending radius
Fixed Application:
15D (D=cable diameter)
- Reference standard
IEC61156-5
ANSI/TIA-568-C.2
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Solid bare copper
- Insulation : PE
- Shield : AL/Mylar screen
- Inner Jacket : LSZH
- Armoured : Galvanized steel wire braid
- Jacket : Nylon
- Color : Black

Properties

- Pest resistance, anti-rodent,anti-termite
- Good properties of tensile strength and abrasion resistance
- AL/Mylar screen, have good performance of resistant to external EMI
- Transmission of signals up to 100 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5202025	F/UTP 4X2X24AWG/1	Nylon	8.2	16.2	113.7

LONGTRONIC™

LONGTRONIC™ ETHERNET MARINE CAT7A



ZHAOLONG LONGTRONIC™ ETHERNET MARINE CAT7A S/FTP 4PR 23AWG SHF1 IEC60332-3-24 ****m YY/MM/DD

Application

Be used in ship, oil platforms and other buildings in marine and offshore environments. It applies to data-centers, SANS, etc. Armored cables are suitable for direct burial installation and outdoor installation.

Technical Data

- Temperature Range
-40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω@100MHz
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application :
8D (Non-armored D=cable diameter)
12D (Armoured D=cable diameter)
- Reference Standard
IEC61156-5
EN50173&ISO/IEC11801



Cable Construction

- Conductor : Stranded bare copper
- Insulation : Foamed PE
- Shield : AL/Mylar individual screen and tinned copper wire overall braid
- Inner Jacket : See the table below (for armored cable)
- Armoured : SWB (galvanized steel braid)
- Jacket : See the table below
- Color : Black

Properties

- Flame resistance according to IEC60332-1&IEC60332-3C
- AL/Mylar individual screen and tinned copper wire braid, have excellent performance of resistant to external EMI
- SHF2 jacket cable has good properties of oil resistance
- Special SHF2 jacket cable is resistant to mud
- Transmission of signals up to 1000 MHz

Item NO.	Spec.	Inner Jacket	Armor	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5604015	S/FTP 4X2X23AWG/7	/	/	SHF1	9.0	34.8	89.3
ZL5604016	S/FTP 4X2X23AWG/7	/	/	SHF2	9.0	34.8	87
ZL5604017	S/FTP 4X2X23AWG/7	SHF1	SWB	SHF1	12.2	34.8	191.4
ZL5604018	S/FTP 4X2X23AWG/7	SHF1	SWB	SHF2	12.2	34.8	187.8

Ethernet Cables

LONGTRONIC™ ETHERNET MARINE CAT7



ZHAOLONG LONGTRONIC™ ETHERNET MARINE CAT7 S/FTP 4PR 23AWG SHF1 IEC60332-3-24 ****m YY/MM/DD

Application
 Be used in ship, oil platforms and other buildings in marine and offshore environments. It applies to data-centers, SANS, etc. Armored cables are suitable for direct burial installation and outdoor installation.



Technical Data
 —Temperature Range
 -40°C ~80°C
 —Test Voltage
 1000V/min (DC)
 —Characteristic Impedance
 100 ± 15Ω@100MHz
 —Insulation Resistance
 ≥5GΩ.km
 —Minimum Bending Radius
 Fixed Application :
 8D (Non-armored D=cable diameter)
 12D (Armoured D=cable diameter)
 —Reference Standard
 IEC61156-5
 EN50173&ISO/IEC11801

Cable Construction
 Conductor : Stranded bare copper
 Insulation : Foamed PE
 Shield : AL/Mylar individual screen and tinned copper wire overall braid
 Inner Jacket : See the table below (for armored cable)
 Armoured : SWB (galvanized steel braid)
 Jacket : See the table below
 Color : Black

Properties
 Flame resistance according to IEC60332-1&IEC60332-3C
 AL/Mylar individual screen and tinned copper wire braid, have excellent performance of resistant to external EMI
 SHF2 jacket cable has good properties of oil resistance
 Special SHF2 jacket cable is resistant to mud
 Transmission of signals up to 600 MHz

Item NO.	Spec.	Inner Jacket	Armor	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5604011	S/FTP 4X2X23AWG/7	/	/	SHF1	9.0	34.8	89.3
ZL5604012	S/FTP 4X2X23AWG/7	/	/	SHF2	9.0	34.8	87
ZL5604013	S/FTP 4X2X23AWG/7	SHF1	SWB	SHF1	12.2	34.8	191.4
ZL5604014	S/FTP 4X2X23AWG/7	SHF1	SWB	SHF2	12.2	34.8	187.8

LONGTRONIC™

LONGTRONIC™ ETHERNET MARINE CAT6A



ZHAOLONG LONGTRONIC™ ETHERNET MARINE CAT6A S/FTP 4PR 23AWG SHF1 IEC60332-3-24 ****m YY/MM/DD

Application

Be used in ship, oil platforms and other buildings in marine and offshore environments. It applies to data-centers, SANS, etc. Armored cables are suitable for direct burial installation and outdoor installation.

Technical Data

- Temperature Range
-40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω@100MHz
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application :
8D (Non-armored D=cable diameter)
12D (Armoured D=cable diameter)
- Reference Standard
IEC61156-5
EN50173&ISO/IEC11801



Cable Construction

- Conductor : Stranded bare copper
- Insulation : Foamed PE
- Shield : AL/Mylar individual screen and tinned copper wire overall braid
- Inner Jacket : See the table below (for armored cable)
- Armoured : SWB (galvanized steel braid)
- Jacket : See the table below
- Color : Black

Properties

- Flame resistance according to IEC60332-1&IEC60332-3C
- AL/Mylar individual screen and tinned copper wire braid, have excellent performance of resistant to external EMI
- SHF2 jacket cable has good properties of oil resistance
- Special SHF2 jacket cable is resistant to mud
- Transmission of signals up to 500 MHz

Item NO.	Spec.	Inner Jacket	Armor	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5604004	S/FTP 4X2X23AWG/7	/	/	SHF1	9.0	34.8	89.3
ZL5604008	S/FTP 4X2X23AWG/7	/	/	SHF2	9.0	34.8	87
ZL5604009	S/FTP 4X2X23AWG/7	SHF1	SWB	SHF1	12.2	34.8	191.4
ZL5604010	S/FTP 4X2X23AWG/7	SHF1	SWB	SHF2	12.2	34.8	187.8

Ethernet Cables

LONGTRONIC™ ETHERNET MARINE CAT6



ZHAOLONG LONGTRONIC™ ETHERNET MARINE CAT6 S/FTP 4PR 23AWG SHF1 IEC60332-3-24 ****m YY/MM/DD

Application

Be used in ship, oil platforms and other buildings in marine and offshore environments. It applies to data-centers, SANS, etc. Armored cables are suitable for direct burial installation and outdoor installation.



Technical Data

- Temperature Range
-40°C ~80°C
- Test Voltage
1000V/min (DC)
- Characteristic Impedance
100±15Ω@100MHz
- Insulation Resistance
≥5GΩ.km
- Minimum Bending Radius
Fixed Application :
8D (Non-armored D=cable diameter)
12D (Armoured D=cable diameter)
- Reference Standard
IEC61156-5
EN50173&ISO/IEC11801

Cable Construction

- Conductor : Stranded bare copper
- Insulation : Foamed PE
- Shield : AL/Mylar individual screen and tinned copper wire overall braid
- Inner Jacket : See the table below (for armored cable)
- Armoured : SWB (galvanized steel braid)
- Jacket : See the table below
- Color : Black

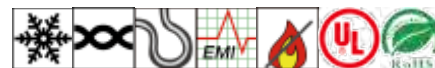
Properties

- Flame resistance according to IEC60332-1&IEC60332-3C
- AL/Mylar individual screen and tinned copper wire braid, have excellent performance of resistant to external EMI
- SHF2 jacket cable has good properties of oil resistance
- Special SHF2 jacket cable is resistant to mud
- Transmission of signals up to 250 MHz

Item NO.	Spec.	Inner Jacket	Armor	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5604003	S/FTP 4X2X23AWG/7	/	/	SHF1	9.0	34.8	89.3
ZL5604005	S/FTP 4X2X23AWG/7	/	/	SHF2	9.0	34.8	87
ZL5604029	S/FTP 4X2X23AWG/7	SHF1	SWB	SHF1	12.2	34.8	191.4
ZL5604007	S/FTP 4X2X23AWG/7	SHF1	SWB	SHF2	12.2	34.8	187.8

LONGTRONIC™

LONGTRONIC™ ETHERNET WIND ENERGY CAT5e



ZHAOLONG LONGTRONIC™ ETHERNET Wind Energy CAT5E SF/UTP 4PR 26AWG PUR IEC60332-1 ****m YY/MM/DD

Application

This cable is specially designed for wind power application and used in the wind power plant to transmits data from the tower top to bottom. Also suitable for other torsional stress areas.



Technical Data

—Temperature Ranges

Fixed Application :

PVC : -40°C ~70°C

PUR : -40°C ~80°C

Occasional Movement :

PVC : -5°C ~60°C

PUR : -20°C ~70°C

—Test Voltage

1000V/min (DC)

—Characteristic Impedance

100±15Ω

—Insulation Resistance

≥5GΩ.km

—Minimum Bending Radius

Fixed Application : 8D (D=cable diameter)

Occasional movement : 10D (D=cable diameter)

—Reference Standard

IEC61156-5, ANSI/TIA-568-C.2

EN50173&ISO/IEC11801

Cable Construction

Conductor : Stranded copper wire

Insulation : PE

Shielded : AL/Mylar screen and tinned copper wire braid

Jacket : See the table below

Color : Blue

Properties

Flame resistance according to IEC60332-1

Good property of flexibility

Have good performance of resistant to external EMI

Cold resistance, resistant to low temperature resistance up to -40°C

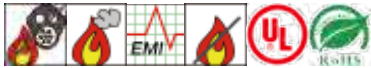
PUR jacket cable is resistant to oil

Transmission of signals up to 100 MHz

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5602003	SF/UTP 4X2X26AWG/7	PVC	6.0	25.0	52.7
ZL5602001	SF/UTP 4X2X26AWG/7	PUR	6.0	25.0	51.0
ZL5602004	SF/UTP 4X2X26AWG/19	PVC	6.2	27.0	54.0
ZL5602002	SF/UTP 4X2X26AWG/19	PUR	6.2	27.0	52.0

Ethernet Cables

LONGTRONIC™ ETHERNET LOCOMOTIVE CAT5e



ZHAOLONG LONGTRONIC™ ETHERNET LOCOMOTIVE CAT5E 4X22AWG LSZH IEC60332-3-25 *****m YY/MM/DD

Application
 This cable is specially designed for railway application and meets the requirements of the relevant parts of international railway standards like DIN 5510-2.



- Technical Data**
- Temperature Range
-40°C ~80°C
 - Test Voltage
1000V/min (DC)
 - Characteristic Impedance
100 ± 15Ω
 - Insulation Resistance
≥5GΩ.km
 - Minimum Bending Radius
Fixed Application :
8D (D=cable diameter)
 - Reference Standard
According to DIN 5510-2

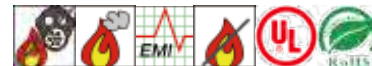
Cable Construction
 Conductor : Stranded copper wire
 Insulation : PE or LSZH
 Shield : AL/Mylar screen and tinned copper wire braid
 Jacket : LSZH
 Color : Black or white

Properties
 Flame resistance according to IEC60332-1
 Halogen free, low smoke
 Have good performance of resistant to external EMI
 Excellent transmission performance
 Meet CAT5e requests

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5605004	SF/UTP 4X22AWG	6.6	30.0	63.5
ZL5605005	SF/UTP 4X2X28AWG	5.2	18.7	37.5
ZL5605006	SF/UTP 4X2X28AWG+2X26AWG	5.5	22.7	44.0

LONGTRONIC™

LONGTRONIC™ ETHERNET PROFINET TYPE A



ZHAOLONG LONGTRONIC™ ETHERNET PROFINET TYPE A 1X4X22AWG PVC IEC60332-1 ****m YY/MM/DD

Application

This cable is designed for PROFINET and widely used in industrial Ethernet fields, such as machines, equipments, instruments and control panel. Electrical performance according to CAT5e. Suitable for fixed application.



Technical Data

- Temperature Ranges
 - PVC : -20°C ~70°C
 - FRNC : -40°C ~80°C
- Test Voltage
 - 2000V/min (AC)
- Characteristic Impedance
 - 100±15Ω
- Conductor DCR (20°C)
 - ≤60Ω/km
- Minimum Bending Radius
 - Fixed Application :
 - 10D (D=cable diameter)

Cable Construction

- Conductor : Solid bare copper
- Insulation : PE Color : White, yellow, blue, orange
- Inner jacket : See the table below
- Shielded: AL/Mylar wrapped and tinned copper braiding
- Jacket : See the table below
- Color : Green (similar to RAL 6018)

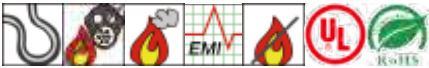
Properties

- Flame resistance according to IEC60332-1
- Have good performance of resistant to external EMI
- Halogen free, low smoke for FRNC jacket cable
- Excellent transmission performance

Item NO.	Spec.	Inner Jacket	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5201001	1X4X22AWG/1	PVC	PVC	6.5	26.0	61.8
ZL5201002	1X4X22AWG/1	FRNC	FRNC	6.5	26.0	62.4

Ethernet Cables

LONGTRONIC™ ETHERNET PROFINET TYPE B



ZHAOLONG LONGTRONIC™ ETHERNET PROFINET TYPE B 1X4X22AWG PVC IEC60332-1 ****m YY/MM/DD

Application

This cable is designed for PROFINET and widely used in industrial Ethernet fields, such as machines, equipments, instruments and control panel. Electrical performance according to CAT5e. Suitable for fixed application or occasional movement.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - FRNC : -40°C ~80°C
 - Occasional Movement :
 - PVC : -5°C ~60°C
 - FRNC : -5°C ~70°C
- Test Voltage
 - 2000V/min (AC)
- Characteristic Impedance
 - 100±15Ω
- Conductor DCR (20°C)
 - ≤60Ω/km
- Minimum Bending Radius
 - Fixed Application :
 - 8D (D=cable diameter)
 - Occasional Movement :
 - 15D (D=cable diameter)

Cable Construction

- Conductor : Stranded tinned copper wire
- Insulation : PE
- Color : White, yellow, blue, orange
- Inner jacket : see the table below
- Shielded: AL/Mylar wrapped and tinned copper braiding
- Jacket : See the table below
- Color : Green (similar to RAL 6018)

Properties

- Flame resistance according to IEC60332-1
- Have good performance of resistant to external EMI
- Halogen free, low smoke for FRNC jacket cable
- Excellent transmission performance

Item NO.	Spec.	Inner Jacket	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5201003	1X4X22AWG/7	PVC	PVC	6.5	28.5	63.4
ZL5201004	1X4X22AWG/7	FRNC	FRNC	6.5	28.5	64.0

LONGTRONIC™

LONGTRONIC™ ETHERNET PROFINET TYPE C



ZHAOLONG LONGTRONIC™ ETHERNET PROFINET TYPE C 1X4X22AWG PUR IEC60332-1 ****m YY/MM/DD

Application

This cable is designed for PROFINET and widely used in industrial Ethernet fields, such as machines, equipments, instruments and control panel. Electrical performance according to CAT5e. Very suitable for drag chain or frequent movement.



Technical Data

—Temperature Range

Fixed Application :

PVC/PUR : -40°C ~80°C

Moved Application :

PVC : -5°C ~70°C

PUR : -20°C ~70°C

—Test Voltage

2000V/min (AC)

—Characteristic Impedance

100±15Ω

—Conductor DCR (20°C)

≤60Ω/km

—Minimum Bending Radius

Fixed Application:

8D (D=cable diameter)

Moved Application :

15D (D=cable diameter)

Cable Construction

Conductor : Stranded tinned copper wire

Insulation : PE

Color : White, yellow, blue, orange

Inner jacket : See the table below

Shielded : AL/Mylar wrapped and tinned copper braiding

Jacket : See the table below

Color : Green (similar to RAL 6018)

Properties

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

Excellent transmission performance

Good property of flexibility

PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis

Item NO.	Spec.	Inner Jacket	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5201005	1X4X22AWG/19	PVC	PVC	6.5	28.5	62.6
ZL5201006	1X4X22AWG/19	FRNC	PUR	6.5	28.5	60.5

Ethernet Cables

LONGTRONIC™ ETHERNET EtherCAT



ZHAOLONG LONGTRONIC™ ETHERNET EtherCAT SF/UTP 2PR 26AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Cable widely used in industrial Ethernet fields, such as machines, equipments, instruments and control panel. Electrical performance according to CAT5e. Be used in EtherCAT and suitable for fixed application or occasional movement.



Technical Data

- Temperature Range
 - Fixed Application : PVC/LSZH/PUR : -40°C ~-80°C
 - Occasional Movement : PUR : -20°C ~-70°C
 - PVC/LSZH : -5°C ~-70°C
- Test Voltage
 - 2000V/min (AC)
- Characteristic Impedance
 - 100±15Ω
- Conductor DCR (20°C)
 - ≤60Ω/km
- Minimum Bending Radius
 - Fixed Application : 8D (D=cable diameter)
 - Occasional Movement : 15D (D=cable diameter)

Cable Construction

Conductor : Stranded copper wire
 Insulation : PE
 Shielded : AL/Mylar wrapped and tinned copper braiding
 Jacket : See the table below
 Color : Yellow

Properties

Flame resistance according to IEC60332-1
 Have good performance of resistant to external EMI
 Halogen free, low smoke for LSZH jacket cable
 Excellent transmission performance
 PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5208012	2x2x26AWG/7	PVC	5.7	17.0	41.7
ZL5208002	2x2x26AWG/7	LSZH	5.7	17.0	41.7
ZL5208003	2x2x26AWG/7	PUR	5.7	17.0	39.9
ZL5208004	4X2X26AWG/7	PVC	5.7	24.4	47.2
ZL5208005	4X2X26AWG/7	LSZH	5.7	24.4	47.2
ZL5208006	4X2X26AWG/7	PUR	5.7	24.4	45.3

LONGTRONIC™

LONGTRONIC™ ETHERNET EtherCAT PoE



ZHAOLONG LONGTRONIC™ ETHERNET EtherCAT PoE 4X22AWG PUR IEC60332-1 ****m YY/MM/DD

Application

Cable widely used in industrial Ethernet fields, such as machines, equipments, instruments and control panel. Electrical performance according to CAT5e. Be used in EtherCAT and suitable for flexible installation. Power core and data are perfectly combined within one cable.



Technical Data

- Temperature Range
 - Fixed Application :
PUR : -40°C ~-80°C
 - Moved Application :
PUR : -5°C ~-70°C
- Test Voltage
2000V/min (AC)
- Characteristic Impedance
100±15Ω (22AWG/24AWG)
- Nominal Voltage
22AWG/24AWG ≤48V DC
0.75mm² ≤90V DC
1.5mm² ≤850V DC
- Minimum Bending Radius
Fixed Application : 8D (D=cable diameter)
Flexible Application : 15D (D=cable diameter)

Cable Construction

Conductor : Stranded copper wire
Insulation : PE (22AWG/24AWG) ,PVC (0.75mm²,1.5mm²)
Shielded: 4 core with AL/Mylar wrapped and tinned copper braiding
Jacket : PUR
Color : black

Properties

Flame resistance according to IEC60332-1
Excellent transmission performance
PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis
Power core and data are perfectly combined within one cable
Reduce space and cost of cabling

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5208007	1x4x24AWG	PUR	5.2	20.2	38.2
ZL5208008	1x4x22AWG	PUR	6.5	28.2	56.6
ZL5208009	1x4x22AWG+2X0.75mm ²	PUR	9.0	46.0	96.6
ZL5208010	1x4x22AWG++3X1.5mm ²	PUR	10.0	73.9	143.0
ZL5208011	1x4x22AWG++5X1.5mm ²	PUR	11.0	102.0	200.0

Ethernet Cables

LONGTRONIC™ ETHERNET CC-Link IE



ZHAOLONG LONGTRONIC™ ETHERNET CC-Link IE SF/UTP 4PR 26AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Be used in CC-LINK IE Field and connected field configurable equipments and monitoring equipments to manager and control data.It's simple ,reliable and suitable for fixed application or occasional movement.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C -70°C
 - LSZH/PUR : -40°C -80°C
 - Occasional Movement :
 - PVC : -5°C ~60°C
 - LSZH : -5°C -70°C
 - PUR : -20°C -70°C
- Test voltage
 - 1000V/min (DC)
- Characteristic Impedance
 - 100±15Ω
- Insulation Resistance
 - ≥5GΩ.km
- Minimum Bending Radius
 - Fixed Application :
 - 8D (D=cable diameter)
 - Occasional Movement :
 - 15D (D=cable diameter)

Cable Construction

- Conductor : Stranded copper wire
- Insulation : PE
- Shielded : AL/Mylar wrapped and tinned copper braiding
- Jacket : See the table below
- Color : Yellow

Properties

- Flame resistance according to IEC60332-1
- Have good performance of resistant to external EMI
- Halogen free, low smoke for LSZH jacket cable
- Excellent transmission performance
- PUR jacket cable is extremely resistant to oil,abrasion and hydrolysis

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5209001	4X2X24AWG/1	PVC	6.6	30.3	60.4
ZL5209002	4X2X24AWG/1	LSZH	6.6	30.3	60.4
ZL5209003	4X2X26AWG/7	PVC	5.7	24.4	47.2
ZL5209004	4X2X26AWG/7	LSZH	5.7	24.4	47.2
ZL5209005	4X2X26AWG/7	PUR	5.7	24.4	45.3

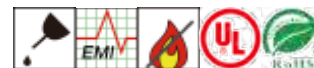
LONGTRONIC™ Bus Cables

- Bus cables has various products, including Profibus cable, Devicenet cable, CC-Link cable, Canbus cable, Interbus cable, ASI cable and RS485 cable.
- Professional production test equipment and excellent electronic performance.
- Excellent shield structure and high shield braiding rate, ensuring the products' excellent electromagnetic interference performance.
- Excellent shield structure and high shield braiding rate, ensuring the products' excellent electromagnetic interference performance.
- It can meet different installation requirements such as fixed installation, moving and drag chain application, armoured application and directly-buried application, etc.
- We are member of PI Association (Profibus), and CLPA Association(CC-Link). Our products are environment friendly, reaching the requirements of RoHS.
- Star Products :
 - PROFIBUS-DP P.47
 - PROFIBUS-DP FD P.48
 - PROFIBUS-DP Armored P.49
 - Devicenet P.58
 - CC-Link P.56
 - Canbus P.54
- Relevant cable assemblies, please refer to the chapters in «Connecting Technology». For **M series products**, please see P.234 and P.235.



Bus Cable

LONGTRONIC™ BUS PROFIBUS-DP



ZHAOLONG LONGTRONIC™ BUS PROFIBUS-DP 1X2X22AWG PVC IEC60332-1 ****m YY/MM/DD

Application

PROFIBus-DP cable designed for industrial field bus systems of automation and communication, it apply to fixed application. PE jacket cable is suitable for outdoor installation.



Technical Data

- Temperature Range
PVC: -20°C ~70°C
LSZH/PUR: -40°C ~80°C
- Test Voltage
2000V/min (AC)
- Characteristic Impedance
150±15Ω@3-20MHz
- Conductor DCR(20°C)
≤55Ω/km
- Rated Voltage
300V
- Minimum Bending Radius
Fixed Application :
10D (D=cable diameter)

Cable Construction

- Conductor : Solid bare copper wire
- Insulation : Foamed PE
- Color : Red, green
- Shielded : AL/Mylar wrapped and tinned copper braiding
- Jacket : See the table below
- Color : Purple (similar to RAL 4001) , PE jacket is black

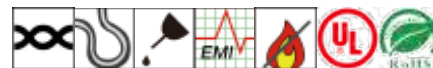
Properties

- Flame resistance according to IEC60332-1
- Have good performance of resistant to external EMI
- PE jacket cable is suitable for outdoor installation
- PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5101001	1x2x22AWG/1	PVC	8.0	25.0	72.0
ZL5101010	1x2x22AWG/1	LSZH	8.0	25.0	73.0
ZL5101011	1x2x22AWG/1	PE	8.0	25.0	61.0
ZL5101012	1x2x22AWG/1	PUR	8.0	25.0	68.0

LONGTRONIC™

LONGTRONIC™ BUS PROFIBUS-DP FD



ZHAOLONG LONGTRONIC™ BUS PROFIBUS-DP FD 1X2X22AWG PUR IEC60332-1 ****m YY/MM/DD

Application

PROFIBus-DP cable designed for industrial field bus systems of automation and communication, specially suitable for high flexible applications in power chains, moving machine parts, robots, etc.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC/PUR: -40°C ~80°C
 - Moved Application :
 - PVC : -5°C ~70°C
 - PUR : -20°C ~70°C
- Test voltage
 - 2000V/min (AC)
- Characteristic Impedance
 - 150±15Ω@3-20MHz
- Conductor DCR (20°C)
 - ≤53Ω/km
- Rated Voltage
 - 300V
- Minimum bending radius
 - Fixed Application :
 - 10D (D=cable diameter)
 - Moved Application :
 - 15D (D=cable diameter)

Cable Construction

- Conductor : Stranded bare copper wire
- Insulation : Foamed PE
- Color : Red, green
- Shielded : AL/Mylar wrapped and tinned copper braiding
- Jacket : See the table below
- Color : Purple (similar to RAL 4001)

Properties

- Flame resistance according to IEC60332-1.
- Have good performance of resistant to external EMI
- Good property of flexibility
- Small bending radius
- PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5101006	1x2x22AWG/19	PVC	7.8	25.0	72.0
ZL5101007	1x2x22AWG/19	PUR	7.8	25.0	68.0

Bus Cables

LONGTRONIC™ BUS PROFIBUS-DP ARMORED



ZHAOLONG LONGTRONIC™ BUS PROFIBUS-DP Armored 1X2X22AWG SHF1 IEC60332-3-24 ****m YY/MM/DD

Application

PROFIBus-DP cable designed for industrial field bus systems of automation and communication, it applies to tensile stress areas and buried installation. SHF1 and SHF2 jacket cable is suitable for ships and offshore environment.



Technical Data

- Temperature Range
PVC : -20°C ~70°C
PE/SHF1/SHF2 : -40°C ~80°C
- Test voltage
2000V/min (AC)
- Characteristic Impedance
150±15Ω@3-20MHz
- Conductor DCR (20°C)
≤55Ω/km
- Rated Voltage
300V
- Minimum bending radius
Fixed Application :
15D (D=cable diameter)

Cable Construction

- Conductor : Solid or stranded bare copper wire
- Insulation : Foamed PE
- Color : Red, green
- Shielded : AL/Mylar wrapped and tinned copper braiding
- Inner Jacket : See the table below
- Armoured : Galvanized steel wire braid
- Jacket : See the table below Color : Black

Properties

- Flame resistance according to IEC60332-1, IEC60332-3C for SHF1 and SHF2
- Have good performance of resistant to external EMI
- Good property of tensile strength
- SHF2 jacket cable is extremely resistant to oil
- Mud resistance of special SHF2 jacket

Item NO.	Spec.	Inner Jacket	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5101013	1x2x22AWG/1	PVC	PVC	11.0	53.0	163
ZL5101014	1x2x22AWG/1	PVC	PE	11.0	53.0	150
ZL5101015	1x2x22AWG/7	SHF1	SHF2	11.0	53.0	165
ZL5101016	1x2x22AWG/7	SHF1	SHF1	11.0	53.0	165

LONGTRONIC™

LONGTRONIC™ BUS PROFIBUS-PA



ZHAOLONG LONGTRONIC™ BUS PROFIBUS-PA 1X2X18AWG PVC IEC60332-1 ****m YY/MM/DD

Application

ProfiBus-PA cable designed for industrial field bus systems of automation and communication, be commonly used for areas with danger of explosion. Suitable for fixed application. Economical type, reduce the cost of cable laying.



Technical Data

- Temperature Range
 - PVC : -20°C ~70°C
 - LSZH : -40°C ~80°C
- Test Voltage
 - 2000V/min (AC)
- Characteristic Impedance
 - 100±20Ω@31.25kHz
- Rated Voltage
 - 300V
- Minimum bending radius
 - Fixed Application :
 - 10D (D=cable diameter)

Cable Construction

- Conductor : Solid or stranded copper wire
- Insulation : Foamed PE
- Color : Blue, orange
- Shielded : AL/Mylar wrapped
- Jacket : See the table below Color : Orange (similar to RAL 2003)

Properties

- Flame resistance according to IEC60332-1
- AL/Mylar overall screened, have good performance of resistant to external EMI
- Halogen free, low smoke (LSZH)
- Economical type, have smaller outer diameter

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5101017	1x2x18AWG/1	PVC	7.0	21.5	65.7
ZL5101018	1x2x18AWG/1	LSZH	7.0	21.5	66.3
ZL5101019	1x2x18AWG/7	PVC	7.0	22.0	61.0
ZL5101020	1x2x18AWG/7	LSZH	7.0	22.0	62.0

Bus Cables



LONGTRONIC™ BUS PROFIBUS-PA CY/CH

ZHAOLONG LONGTRONIC™ BUS PROFIBUS-PA CY 1X2X18AWG PVC IEC60332-1 ***m YY/MM/DD

Application

ProfiBus-PA cable designed for industrial field bus systems of automation and communication, be commonly used for areas with danger of explosion. Suitable for fixed application. Intended for the place of high electrical interference.



Technical Data

- Temperature Range
PVC: -20°C ~70°C
LSZH: -40°C ~80°C
- Test Voltage
2000V/min (AC)
- Characteristic Impedance
100±20Ω@31.25kHz
- Rated Voltage
300V
- Minimum Bending Radius
Fixed Application:
10D (D=cable diameter)

Cable Construction

- Conductor : Solid or stranded copper wire
- Insulation : PE
- Color : Red, green
- Shielded : AL/Mylar wrapped and tinned copper braiding
- Jacket : See the table below
- Color : Blue

Properties

- Flame resistance according to IEC60332-1
- AL/Mylar and tinned copper shield, have good performance of resistant to external EMI
- Halogen free, low smoke (LSZH)

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5101021	1x2x18AWG/1	PVC	8.0	34.0	78.9
ZL5101022	1x2x18AWG/1	LSZH	8.0	34.0	79.7
ZL5101023	1x2x18AWG/7	PVC	8.0	34.0	78.6
ZL5101024	1x2x18AWG/7	LSZH	8.0	34.0	79.4

LONGTRONIC™

LONGTRONIC™ BUS CANBUS TP



ZHAOLONG LONGTRONIC™ BUS CANBUS TP 1X2X0.22mm² PVC IEC60332-1 ****m YY/MM/DD

Application

Widely used in many bus systems, apply to build up network for automation technology, combination control and controller, etc. such as textile industry, construction machinery industry, medical industry. Suitable for fixed application or occasional movement.



Technical Data

—Temperature Range

Fixed Application :

PVC : -20°C ~70°C

Occasional Movement :

PVC : -5°C ~60°C

—Test Voltage

1500V/min (AC)

—Characteristic Impedance

120±15Ω@1MHz

—Rated Voltage

300V

—Minimum Bending Radius

Temperature Ranges :

10D (D=cable diameter)

Occasional movement :

15D (D=cable diameter)

Cable Construction

Conductor : Stranded bare copper wire

Insulation : Foamed PE

Color : According to DIN 47100

Shielded : Tinned copper braiding

Jacket : PVC

Color : Purple (similar to RAL 4001)

Properties

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

Steady performance of data transmission

Suitable for fixed installation or occasional movement

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5104001	1×2×0.22	PVC	5.7	14.0	44
ZL5104013	2×2×0.22	PVC	7.6	26.0	64
ZL5104003	1×2×0.34	PVC	6.8	22.0	57
ZL5104004	2×2×0.34	PVC	8.5	35.0	92
ZL5104005	1×2×0.50	PVC	7.5	27.5	67
ZL5104006	2×2×0.50	PVC	9.6	47.0	96
ZL5104014	1×2×0.75	PVC	8.7	52.7	108
ZL5104015	2×2×0.75	PVC	11.5	80.6	142

Bus Cables

LONGTRONIC™ BUS CANBUS FD-TP



ZHAOLONG LONGTRONIC™ BUS CANBUS FD-TP 1X2X0.22mm² PUR IEC60332-1 ***m YY/MM/DD

Application

Widely used in many bus systems, apply to build up network for automation technology, combination control and controller, etc. such as textile industry, construction machinery industry, medical industry. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : PUR: -40°C ~80°C
 - Moved Application : PUR: -20°C ~70°C
- Test Voltage
 - 1500V/min (AC)
- Characteristic Impedance
 - 120±15Ω@1MHz
- Rated Voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application : 10D (D=cable diameter)
 - Moved Application : 15D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper
- Insulation : Foamed PE
- Color : According to DIN 47100
- Shielded : Tinned copper braiding
- Jacket : PUR
- Color : Purple (similar to RAL 4001)

Properties

- Flame resistance according to IEC60332-1
- Have good performance of resistant to external EMI
- Extremely resistant to oil, abrasion and hydrolysis
- Halogen free

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5104007	1×2×0.25	PUR	6.3	16.0	48
ZL5104008	2×2×0.25	PUR	8.4	31.0	74
ZL5104009	1×2×0.34	PUR	6.9	26.0	56
ZL5104010	2×2×0.34	PUR	9.3	37.0	86
ZL5104011	1×2×0.50	PUR	7.7	33.0	68
ZL5104012	2×2×0.50	PUR	10.6	50.0	102

LONGTRONIC™

LONGTRONIC™ BUS CANBUS



ZHAOLONG LONGTRONIC™ BUS CANBUS 4X0.50mm² PVC IEC60332-1 ****m YY/MM/DD

Application

Widely used in many bus systems, apply to build up network for automation technology, combination control and controller, etc. such as textile industry, construction machinery industry, medical industry. Suitable for fixed application or occasional movement. Star quad cable.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - Occasional Movement :
 - PVC : -5°C ~60°C
- Test Voltage
 - 1500V/min (AC)
- Characteristic Impedance
 - 120 ± 15Ω @ 1MHz
- Rated Voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application :
 - 10D (D=cable diameter)
 - Occasional movement :
 - 15D (D=cable diameter)

Cable Construction

Conductor : Stranded bare copper wire
 Insulation : Foamed PE
 Color : According to DIN 47100
 Shielded : Tinned copper braiding
 Jacket : See the table below
 Color : Purple (similar to RAL 4001)

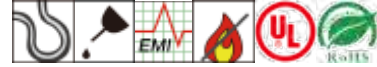
Properties

Flame resistance according to IEC60332-1
 Have good performance of resistant to external EMI
 Steady performance of data transmission
 Star quad cable have smaller outer diameter

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5104016	4x0.22	PVC	6.4	21	49
ZL5104017	4x0.34	PVC	7.4	30	68
ZL5104002	4x0.50	PVC	8.5	44	95
ZL5104018	4x0.75	PVC	9.0	58	110

Bus Cables

LONGTRONIC™ BUS CANBUS FD



ZHAOLONG LONGTRONIC™ BUS CANBUS FD 4X0.50mm² PUR IEC60332-1 ****m YY/MM/DD

Application

Widely used in many bus systems, apply to build up network for automation technology, combination control and controller, etc. such as textile industry, construction machinery industry, medical industry. Very suitable for drag chain or frequent movement. Star quad cable.



Technical Data

- Temperature Range
 - Fixed Application :
 - PUR: -40°C ~80°C
 - Moved Application :
 - PUR: -20°C ~70°C
- Test Voltage
 - 1500V/min (AC)
- Characteristic Impedance
 - 120 ± 15Ω@1MHz
- Rated Voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application :
 - 10D (D=cable diameter)
 - Moved Application :
 - 15D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper
- Insulation : Foamed PE
- Color : According to DIN 47100
- Shielded : Tinned copper braiding
- Jacket : See the table below
- Color : Purple (similar to RAL 4001)

Properties

- Flame resistance according to IEC60332-1
- Have good performance of resistant to external EMI
- Extremely resistant to oil, abrasion and hydrolysis
- Star quad cable have smaller outer diameter
- Halogen free

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5104019	4x0.22	PUR	6.4	21	46
ZL5104020	4x0.34	PUR	7.4	30	65
ZL5104021	4x0.50	PUR	8.8	44	90
ZL5104022	4x0.75	PUR	9.0	58	105

LONGTRONIC™

LONGTRONIC™ BUS CC-Link



ZHAOLONG LONGTRONIC™ BUS CC-LINK 3X20AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Used to test sensor and propeller, with this cable, CC-LINK system can handle control data and information data quickly. apply to automobile industry, hotelmonitor systems, etc.Suitable for fixed application and occasional movement.



Technical Data

—Temperature Range

Fixed Application :

PVC: -20°C ~70°C

Occasional Movement :

PVC: -5°C ~60°C

—Test Voltage

2000V/min (AC)

—Characteristic Impedance

110±15Ω@1MHz

—Rated Voltage

300V

—Minimum Bending Radius

Fixed Application :

10D (D=cable diameter)

Occasional movement :

15D (D=cable diameter)

Cable Construction

Conductor : Stranded bare copper wire

Insulation : Foamed PE

Color : White, blue, yellow

Shielded : AL/Mylar screen and tinned copper braiding

Jacket : PVC

Color : Red

Properties

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

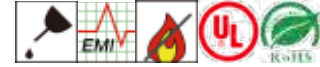
Steady performance of data transmission

Suitable for fixed installation or occasional movement

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5102001	3×1×20AWG	PVC	7.7	35.6	80

Bus Cables

LONGTRONIC™ BUS CC-Link FD



ZHAOLONG LONGTRONIC™ BUS CC-LINK FD 3X20AWG PUR IEC60332-1 ****m YY/MM/DD

Application

Used to test sensor and propeller, with this cable, CC-LINK system can handle control data and information data quickly. apply to automobile industry, hotel monitor systems, etc. Very suitable for drag chain or frequent movement.



Technical Data

—Temperature Range

Fixed Application :
PUR: -40°C ~80°C

Moved Application :
PUR: -20°C ~70°C

—Test Voltage

2000V/min (AC)

—Characteristic Impedance

110±15Ω@1MHz

—Rated Voltage

300V

—Minimum Bending Radius

Fixed Application :
7.5D (D=cable diameter)

Moved Application :
15D (D=cable diameter)

Cable Construction

Conductor : Stranded bare copper

Insulation : Foamed PE

Color : White, blue, yellow

Inner Jacket : FRNC

Shielded : Tinned copper braiding

Jacket : PUR

Color : Red

Properties

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis

Halogen free

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5102002	3x1x20AWG	PUR	8.5	36.0	101

LONGTRONIC™

LONGTRONIC™ BUS DeviceNet



ZHAOLONG LONGTRONIC™ BUS DeviceNet 2X24AWG+2X22AWG PUR IEC60332-1 ****m YY/MM/DD

Application

Used in DeviceNet Bus system, connect industrial equipment in automation process. It's a lower cost network solution with opening network standard. One pair for data transmission and also other pair for the powersupply. Suitable for fixed application or occasional movement.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - LSZH/PUR : -40°C ~80°C
 - Occasional Movement :
 - PVC : -5°C ~60°C
 - LSZH : -5°C ~70°C
 - PUR : -20°C ~60°C
- Test Voltage
 - 1500V/min (AC)
- Characteristic Impedance
 - 120 ± 15Ω@1MHz
- Rated Voltage
 - 300V
- Insulation Resistance
 - 24AWG ≥ 1GΩ.km
 - 22AWG ≥ 10MΩ.km
- Minimum Bending Radius
 - Fixed Application : 15D (D=cable diameter)
 - Occasional movement : 15D (D=cable diameter)

Cable Construction

Conductor : Stranded tinned copper wire
 Insulation : Foamed PE(24AWG), PE(22AWG)
 Color : White, blue(24AWG), red, black(22AWG)
 Shielded : AL/Mylar individual screen, tinned copper overall braiding
 Jacket : See the table below
 Color : Purple (similar to RAL 4001)

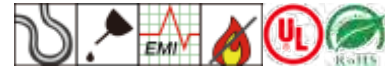
Properties

Flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI
 Halogen free, low smoke for LSZH jacket cable
 Power core and data are perfectly combined within one cable

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5103002	2x22AWG+2x24AWG	PVC	7.0	30.0	68
ZL5103003	2x22AWG+2x24AWG	LSZH	7.0	30.0	69
ZL5103001	2x22AWG+2x24AWG	PUR	7.0	30.0	65

Bus Cables

LONGTRONIC™ BUS DeviceNet FD



ZHAOLONG LONGTRONIC™ BUS DeviceNet FD 2X24AWG+2X22AWG PUR IEC60332-1 ****m YY/MM/DD

Application

Used in DeviceNet Bus system, connect industrial equipment in automation process. It's a lower cost network solution with opening network standard. One pair for data transmission and also other pair for the powersupply. Suitable for high flexible application.



Technical Data

- Temperature Range
 - Fixed Application : PVC/PUR: -40°C ~80°C
 - Moved Application : PVC : -5°C ~60°C PUR : -20°C ~70°C
- Test Voltage
 - 1500V/min (AC)
- Characteristic Impedance
 - 120±15Ω@1MHz
- Rated Voltage
 - 300V
- Insulation Resistance
 - 24AWG≥1GΩ.km
 - 22AWG≥10M.km
- Minimum Bending Radius
 - Fixed Application : 10D (D=cable diameter)
 - Moved Application : 15D (D=cable diameter)

Cable Construction

Conductor : Fine stranded tinned copper wire
 Insulation : Foamed PE(24AWG), PE(22AWG)
 Color : White, blue(24AWG), red, black(22AWG)
 Shielded : AL/Mylar individual screen, tinned copper overall braiding
 Jacket : See the table below
 Color : Purple(similar to RAL 4001)

Properties

Flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI
 PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis
 Power core and data are perfectly combined within one cable

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5103004	2x22AWG+2x24AWG	PVC	7.0	30.0	68
ZL5103005	2x22AWG+2x24AWG	PUR	7.0	30.0	65

LONGTRONIC™

LONGTRONIC™ BUS INTERBUS



ZHAOLONG LONGTRONIC™ BUS INTERBUS 3X2X0.25mm² PVC IEC60332-1 ****m YY/MM/DD

Application

Cable widely used in many industrial field bus systems, such as automobile, tobacco, warehouse, papermaking, food & beverage.

Technical Data

—Temperature Range

Fixed Application :

PVC : -20°C ~70°C

PUR : -40°C ~80°C

Moved Application :

PVC : -5°C ~60°C

PUR : -20°C ~70°C

—Test Voltage

1500V/min (AC)

—Characteristic Impedance

100±15Ω@1MHz

—Rated Voltage

300V

—Minimum Bending Radius

Fixed Application :

10D (D=cable diameter)

Moved Application :

15D (D=cable diameter)



Cable Construction

Conductor : Stranded bare copper wire

Insulation : PE

Color : Twisted wires is according to DIN 47100 (power lines, red, blue, yellow/green)

Shielded : Bare copper braiding

Jacket : See the table below

Color : Green

Properties

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

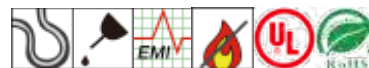
PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis

Power core and data are perfectly combined within one cable for hybrid cables

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5105001	3×2×0.25	PVC	7.5	32.5	64
ZL5105002	3×2×0.25	PUR	7.5	32.5	61
ZL5105003	3×2×0.25+3×1.0	PVC	8.3	64.0	94
ZL5105004	3×2×0.25+3×1.0	PUR	8.3	64.0	98

Bus Cables

LONGTRONIC™ BUS RS-485



ZHAOLONG LONGTRONIC™ BUS RS-485 1X2X0.22mm² PVC IEC60332-1 ****m YY/MM/DD

Application

Comply to RS-485 communication protocol, apply to complicated controlled network of industrial automation self-control network communication of building. Suitable for fixed application and occasional movement.



Technical Data

—Temperature Range

Fixed Application :

PVC : -20°C ~70°C

Occasional Movement :

PVC : -5°C ~60°C

—Test Voltage

1500V/min (AC)

—Characteristic Impedance

120±15Ω@1MHz

—Minimum Bending Radius

Fixed Application :

8D (D=cable diameter)

Occasional movement :

15D (D=cable diameter)

Cable Construction

Conductor : Stranded bare copper wire

Insulation : Foamed PE

Shielded : AL/Mylar screen and tinned copper braiding

Jacket : PVC

Color : Black

Properties

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

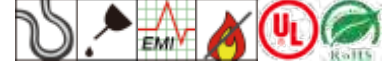
Steady performance of data transmission

Suitable for fixed installation or occasional movement

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5106007	1×2×0.22	PVC	5.9	17.0	37
ZL5106008	2×2×0.22	PVC	7.6	28.0	55
ZL5106003	3×2×0.22	PVC	8.2	37.0	72

LONGTRONIC™

LONGTRONIC™ BUS RS-485 FD



ZHAOLONG LONGTRONIC™ BUS RS-485 FD 1X2X0.25mm² PUR IEC60332-1 ****m YY/MM/DD

Application

Comply to RS-485 communication protocol, apply to complicated controlled network of industrial automation self-control network communication of building. Different cable design can be used in different applications. Very suitable for drag chain or frequent movement.



Technical Data

—Temperature Ranges

Fixed Application :

PUR : -40°C ~80°C

Moved Application :

PVC : -5°C ~60°C

PUR : -20°C ~70°C

—Test Voltage

1500V/min (AC)

—Characteristic Impedance

120±15Ω@1MHz

—Minimum Bending Radius

Fixed Application :

8D (D=cable diameter)

Moved Application :

15D (D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper

Insulation : Foamed PE

Shielded : AL/Mylar screen and tinned copper braiding

Jacket : See the table below

Color : Black

Properties

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis

Halogen free for PUR jacket cable

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5106009	1×2×0.25	PVC	6.0	18.0	41
ZL5106010	2×2×0.25	PVC	7.9	33.0	68
ZL5106011	3×2×0.25	PVC	8.0	39.0	80
ZL5106004	1×2×0.25	PUR	6.0	18.0	39
ZL5106005	2×2×0.25	PUR	7.9	33.0	65
ZL5106006	3×2×0.25	PUR	8.0	39.0	77

Bus Cables



LONGTRONIC™ BUS AS-Interface

ZHAOLONG LONGTRONIC™ BUS AS-Interface 2X1.25mm² PVC IEC60332-1 ****m YY/MM/DD

Application

Apply to AS-Interface and be used to connect sensor with propeller.
Apply to automobile and chemical industry, etc.



Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~80°C

TPE : -40°C ~80°C

During the Installation :

PVC : -20°C ~70°C

TPE : -40°C ~80°C

—Test Voltage

2000V/min(AC)

—Rated Voltage

300V

—Insulation Resistance

≥1MΩm*km

—Minimum Bending Radius

Fixed Application : 10D (D=cable diameter)

Cable Construction

Conductor : Stranded tinned copper

Insulation : TPE

Color : Blue, brown

Jacket : See the table below

Color : Yellow

Properties

Flame resistance according to IEC60332-1

TPE jacket cable is extremely resistant to oil, abrasion and hydrolysis

Halogen free for TPE jacket cable

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5107001	2×1.5	PVC	10mm×4mm	30.0	70
ZL5107002	2×1.5	TPE	10mm×4mm	30.0	66

LONGTRONIC™

LONGTRONIC™ BUS KNX/EIB



ZHAOLONG LONGTRONIC™ BUS KNX/EIB 4X20 AWG PVC IEC60332-1 ****m YY/MM/DD

Application

Cable of European Installation Bus is used in buildings, airports, subways, hotels, etc. Suitable for fixed application.

Technical Data

- Temperature Range
 - Fixed Application: -20°C ~70°C
 - During the Installation: -5°C ~60°C
- Test Voltage 4000V/min(AC)
- Rated Voltage 250V
- Insulation Resistance $\geq 100 \text{M}\Omega \cdot \text{km}$
- Minimum Bending Radius
 - Fixed Application: 15D (D=cable diameter)



Cable Construction

- Conductor : Bare copper wire
- Insulation : PVC
- Color : White, black, yellow, red
- Shielded : AL/Mylar overall screen
- Drain wire : Tinned copper wire
- Jacket : PVC
- Color : Green

Properties

- Flame resistance according to IEC60332-1
- Have good performance of shield
- Easy to install, economical and reliable

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5108001	4x20AWG	PVC	6.1	23	64

LONGTRONIC™ Low-Frequency Data Cables

- Excellent low-frequency transmission performance.
- Zhaolong has more than twenty-year designing, developing and manufacturing experience on data cables.
- Low mutual capacitance. (The wire diameter of insulation wire is uniform, having excellent stability.)
- It is very suitable for the connecting application of low-frequency controlling signal products.
- Our products are standardized products, connection cables of general equipment.
- Our products are environment friendly, reaching the requirement of RoHS.
- Excellent shield performance and interference protection performance.

· Shield Series Star Products

- Li2YCYv-TP P.66
- Li2YCY PIMF P.67
- Li2YCY-TP P.69
- LiYCY-CY-TP P.70
- LiYCY-TP P.72
- LiYCY P.74



LONGTRONIC™

LONGTRONIC™ LF-DATA Li2YCYv-TP



ZHAOLONG LONGTRONIC™ LF-DATA Li2YCYv-TP 2X2X0.22mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as data transmission and control cables in electronics of computer systems, electronic control equipment, machine work, measuring instrument, assembly line, etc. Intended for limited flexible use, and suitable for outdoor application and buried.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - core/core 2000V/min (AC)
 - core/Shield 1000V/min (AC)
- Capacitance
 - core/core ≤60nF/km
- Insulation Resistance (20°C)
 - ≥5GΩ.km
- Rated Voltage
 - 250V
- Minimum Bending Radius
 - Fixed Application: 6D (D=cable diameter)
 - Occasional movement : 15D (D=cable diameter)

Cable Construction

Conductor : 7 wires stranded bare copper, according to IEC 60228/VDE 0295
 Insulation : PE
 Insulation Color : According to DIN 47100
 Shielded : Tinned copper braiding
 Jacket : PVC
 Color : Black (similar to RAL 9005)

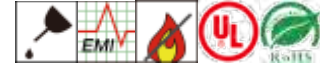
Properties

Flame resistance according to IEC60332-1
 Reinforced sheath, suitable for outdoor installation and buried
 Conditional oil resistance
 Good performance of resistant to external EMI
 Low Capacitance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606312	2X2X0.22	8.1	24	79
ZL5606313	3X2X0.22	8.7	29	93
ZL5606314	4X2X0.22	8.9	34	100
ZL5606315	8X2X0.22	10.7	70	156
ZL5606316	10X2X0.22	12.0	76	185
ZL5606317	1X2X0.34	7.4	20	69
ZL5606318	2X2X0.34	9.3	34	102
ZL5606319	3X2X0.34	10.0	43	117
ZL5606320	4X2X0.34	10.3	53	130
ZL5606321	8X2X0.34	12.6	86	206
ZL5606322	1X2X0.50	7.9	29	79
ZL5606323	2X2X0.50	10.1	37	120
ZL5606324	3X2X0.50	10.9	55	142
ZL5606325	4X2X0.50	11.2	60	160
ZL5606326	8X2X0.50	13.9	113	251
ZL5606327	10X2X0.50	16.0	148	303

Low-Frequency Cables

LONGTRONIC™ LF-DATA Li2YCY PIMF



ZHAOLONG LONGTRONIC™ LF-DATA Li2YCY PiMF 2X2X0.22mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as data transmission and control cables in electronics of computer systems, electronic control equipment, machine work, measuring instrument, assembly line, etc. Intended for limited flexible use, and suitable for fixed application interiors. Suitable for the place of extremely high electrical interference.



Technical Data

- Temperature Range
 - Fixed Application: -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - core/core 2000V/min (AC)
 - core/Shield 1000V/min (AC)
- Capacitance
 - core/core ≤70nF/km (0.22mm², 0.34mm²)
 - ≤75nF/km (0.5mm²)
 - ≤85nF/km (1.0mm²)
- Insulation Resistance (20°C)
 - ≥5GΩ.km
- Rated Voltage
 - 250V
- Minimum Bending Radius
 - Fixed Application: 10D (D=cable diameter)
 - Occasional movement : 20D (D=cable diameter)

Cable Construction

- Conductor : 7 wires stranded bare copper, according to IEC 60228/VDE 0295
- Insulation : PE
- Insulation Color : According to DIN 47100
- Individual shield : AL/Mylar warped for every pair
- Overall shield : Tinned copper braiding
- Jacket : PVC
- Color : Grey (similar to RAL 7035)

Properties

- Flame resistance according to IEC60332-1
- Conditional oil resistance
- Individual shield and tinned copper overall braiding
- Good performance of resistant to external EMI
- Low capacitance crosstalk is good

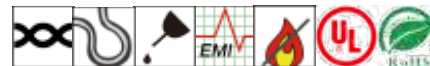
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606278	2X2X0.22	7.9	33	60
ZL5606279	3X2X0.22	8.1	45	78
ZL5606280	4X2X0.22	8.7	52	88
ZL5606281	5X2X0.22	10.1	65	105
ZL5606282	7X2X0.22	10.8	85	134
ZL5606283	8X2X0.22	11.0	98	160
ZL5606284	10X2X0.22	12.1	118	192
ZL5606285	2X2X0.34	8.9	37	74
ZL5606286	3X2X0.34	9.1	52	92
ZL5606287	4X2X0.34	9.6	61	110
ZL5606288	5X2X0.34	10.7	77	130
ZL5606289	7X2X0.34	12.8	100	167
ZL5606290	8X2X0.34	13.2	115	206
ZL5606291	10X2X0.34	14.1	140	241
ZL5606292	2X2X0.50	10.1	43	90
ZL5606293	3X2X0.50	10.3	61	112
ZL5606294	4X2X0.50	10.7	73	136
ZL5606295	5X2X0.50	11.2	91	160

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Item NO.	Spec. (mm ²)	Standard O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606296	7X2X0.50	12.4	121	206
ZL5606297	8X2X0.50	14.9	139	253
ZL5606298	10X2X0.50	16.2	170	304
ZL5606299	2X2X0.75	10.5	52	109
ZL5606300	3X2X0.75	10.6	74	136
ZL5606301	4X2X0.75	11.5	91	161
ZL5606302	5X2X0.75	12.3	114	197
ZL5606303	7X2X0.75	13.6	153	256
ZL5606304	8X2X0.75	16.3	176	311
ZL5606305	10X2X0.75	17.7	216	375
ZL5606306	2X2X1.0	11.6	61	122
ZL5606307	3X2X1.0	11.9	88	155
ZL5606308	4X2X1.0	12.8	109	191
ZL5606309	5X2X1.0	13.9	137	227
ZL5606310	7X2X1.0	16.8	185	298
ZL5606311	10X2X1.0	19.4	262	435

Low-Frequency Cables

LONGTRONIC™ LF-DATA Li2YCY-TP



ZHAOLONG LONGTRONIC™ LF-DATA Li2YCY-TP 2X2X0.22mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as data transmission and control cables in electronics of computer systems, electronic control equipment, machine work, measuring instrument, assembly line, etc. Suitable for the place of high electrical interference.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - core/core 2000V/min (AC)
 - core/Shield 1000V/min (AC)
- Capacitance
 - core/core ≤60nF/km
- Insulation Resistance (20°C)
 - ≥5GΩ.km
- Rated Voltage
 - 250V
- Minimum Bending Radius
 - Fixed Application : 6D (D=cable diameter)
 - Occasional movement : 15D (D=cable diameter)

Cable Construction

- Conductor : 7 wires stranded bare copper, according to IEC 60228/VDE 0295
- Insulation : PE
- Insulation Color : According to DIN 47100
- Shielded : Tinned copper braiding
- Jacket : PVC
- Color : Grey (similar to RAL 7035)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- Conditional oil resistance
- Good performance of resistant to external EMI
- Low Capacitance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606229	2x2x0.22	6.5	24	59
ZL5606230	3x2x0.22	7.1	29	66
ZL5606231	4x2x0.22	7.3	34	78
ZL5606232	8x2x0.22	9.1	70	125
ZL5606233	10x2x0.22	10.4	76	143
ZL5606234	1x2x0.34	5.8	20	44
ZL5606235	2x2x0.34	7.7	34	79
ZL5606236	3x2x0.34	8.4	43	89
ZL5606237	4x2x0.34	8.7	47	101
ZL5606238	8x2x0.34	11.0	86	176
ZL5606239	1x2x0.5	6.3	29	53
ZL5606240	2x2x0.5	8.5	37	85
ZL5606241	3x2x0.5	9.3	55	105
ZL5606242	4x2x0.5	9.6	60	122
ZL5606243	8x2x0.5	12.7	113	213
ZL5606244	10x2x0.5	14.8	154	261
ZL5606245	1x2x0.25	5.7	14	38
ZL5606246	2x2x0.25	6.9	28	56
ZL5606247	3x2x0.25	7.5	40	64
ZL5606248	5x2x0.25	8.3	50	93

LONGTRONIC™

LONGTRONIC™ LF-DATA LiYCY-CY-TP



ZHAOLONG LONGTRONIC™ LF-DATA LiYCY-CY-TP 2X2X0.14mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as data transmission and control cables in electronics of computer systems, electronic control equipment, machine work, measuring instrument, assembly line, etc. Be used in harsh environments, suitable for the place of extremely high electrical interference.



Technical Data

- Temperature Range
 - Fixed Application: -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - < 0.25mm²=1200V/min (AC)
 - ≥0.25mm²=1500V/min (AC)
- Capacitance
 - core/core approx 120nF/km
- Insulation resistance (20°C)
 - ≥200MΩ.km
- Rated Voltage
 - 0.14mm²=350V
 - > 0.14mm²=500V
- Minimum Bending Radius
 - Fixed Application:
 - 7.5D (D=cable diameter)
 - Occasional Movement :
 - 15D (D=cable diameter)

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295
 Insulation : PVC
 Insulation Color : According to DIN 47100
 Individual shield : Tinned copper braiding for every pair
 Core jacket : PVC inner jacket for every pair
 Overall shield : Tinned copper braiding
 Outer Jacket : PVC
 Color : Grey (similar to RAL 7035)

Properties

Flame resistance according to IEC60332-1
 High tensile strength
 Conditional oil resistance
 Individual shield ensure good performance of resistant to internal EMI
 Overall shield ensure good performance of resistant to external EMI

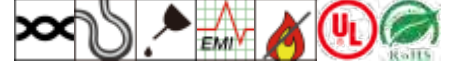
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606195	2X2X0.14	7.3	31	95
ZL5606196	3X2X0.14	7.5	34	105
ZL5606197	4X2X0.14	9.3	45	140
ZL5606198	6X2X0.14	11.0	67	185
ZL5606199	8X2X0.14	13.0	97	245
ZL5606201	10X2X0.14	14.0	108	325
ZL5606202	12X2X0.14	15.0	134	380
ZL5606203	16X2X0.14	17.0	179	440
ZL5606204	20X2X0.14	17.8	225	520
ZL5606205	2X2X0.25	9.5	62	125
ZL5606206	3X2X0.25	10.0	78	140
ZL5606207	4X2X0.25	12.0	124	205
ZL5606208	6X2X0.25	13.0	148	275
ZL5606209	8X2X0.25	17.0	179	330
ZL5606210	10X2X0.25	17.2	214	420
ZL5606211	12X2X0.25	17.5	238	465
ZL5606212	16X2X0.25	22.0	291	590

Low-Frequency Cables

Item NO.	Spec. (mm ²)	Standard O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606213	20X2X0.25	22.6	325	620
ZL5606214	2X2X0.34	10.1	73	139
ZL5606215	3X2X0.34	11.0	88	157
ZL5606216	4X2X0.34	12.4	137	213
ZL5606217	6X2X0.34	14.5	175	308
ZL5606218	8X2X0.34	17.6	247	385
ZL5606219	10X2X0.34	18.0	289	433
ZL5606220	12X2X0.34	18.5	321	495
ZL5606221	16X2X0.34	22.5	426	637
ZL5606222	2X2X0.50	10.8	83	143
ZL5606223	3X2X0.50	11.4	106	179
ZL5606224	4X2X0.50	13.0	158	241
ZL5606225	6X2X0.50	14.9	201	319
ZL5606226	8X2X0.50	18.0	312	441
ZL5606227	10X2X0.50	18.8	335	464
ZL5606228	12X2X0.50	20.1	394	529

LONGTRONIC™

LONGTRONIC™ LF-DATA LiYCY-TP



ZHAOLONG LONGTRONIC™ LF-DATA LiYCY-TP 2X2X0.14mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as data transmission and control cables in electronics of computer systems, electronic control equipment, machine work, measuring instrument, assembly line, etc. Suitable for the place of high electrical interference.



Technical Data

—Temperature Range

Fixed Application : -40°C ~80°C

Occasional Movement : -5°C ~70°C

—Test Voltage

< 0.25mm²=1200V/min (AC)

≥0.25mm²=1500V/min (AC)

—Capacitance

core/core approx 120nF/km

—Insulation Resistance (20°C)

≥200MΩ.km

—Rated Voltage

0.14mm²=350V

> 0.14mm²=500V

—Minimum Bending Radius

Fixed Application: 6D (D=cable diameter)

Occasional Movement : 15D (D=cable diameter)

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295

Insulation : PVC

Insulation Color : According to DIN 47100

Shield : Tinned copper braiding

Jacket : PVC

Color : Grey (similar to RAL 7035)

Properties

Flame resistance according to IEC60332-1

Good property of flexibility

Small bending radius

Conditional oil resistance

Good performance of resistant to external EMI

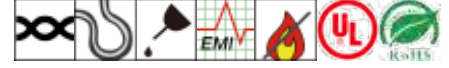
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606328	2X2X0.14	5.6	17	38
ZL5606147	3X2X0.14	5.7	20	42
ZL5606148	4X2X0.14	6.2	22	49
ZL5606149	5X2X0.14	6.4	26	55
ZL5606150	7X2X0.14	7.2	32	69
ZL5606151	12X2X0.14	9.1	52	106
ZL5606152	15X2X0.14	10.3	64	135
ZL5606153	18X2X0.14	10.9	74	153
ZL5606154	25X2X0.14	12.9	98	200
ZL5606155	2X2X0.25	7.0	24	56
ZL5606156	3X2X0.25	7.1	29	63
ZL5606157	4X2X0.25	7.7	34	75
ZL5606158	5X2X0.25	8.1	42	85
ZL5606159	7X2X0.25	8.7	52	103
ZL5606160	12X2X0.25	11.6	89	175
ZL5606161	18X2X0.25	13.5	121	236
ZL5606162	25X2X0.25	16.4	158	321
ZL5606163	2X2X0.34	7.8	27	64
ZL5606164	3X2X0.34	7.9	34	76
ZL5606165	4X2X0.34	8.7	41	91

Low-Frequency Cables

Item NO.	Spec. (mm ²)	Standard O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606166	5X2X0.34	8.9	50	101
ZL5606167	7X2X0.34	10.1	63	134
ZL5606168	12X2X0.34	13.0	109	214
ZL5606169	18X2X0.34	15.5	151	304
ZL5606170	25X2X0.34	18.9	200	416
ZL5606171	2X2X0.50	8.9	40	86
ZL5606172	3X2X0.50	9.0	50	102
ZL5606173	4X2X0.50	9.8	62	126
ZL5606174	5X2X0.50	10.5	70	141
ZL5606175	7X2X0.50	11.3	90	176
ZL5606176	12X2X0.50	15.1	151	294
ZL5606177	15X2X0.50	16.5	182	349
ZL5606178	18X2X0.50	18.1	219	426
ZL5606179	2X2X0.75	9.7	50	103
ZL5606180	3X2X0.75	9.8	63	124
ZL5606181	4X2X0.75	10.8	80	155
ZL5606182	5X2X0.75	11.3	95	175
ZL5606183	7X2X0.75	12.4	124	221
ZL5606184	12X2X0.75	16.6	222	384
ZL5606185	15X2X0.75	18.5	259	466
ZL5606186	18X2X0.75	19.8	312	546
ZL5606187	2X2X1.0	10.3	59	119
ZL5606188	3X2X1.0	10.5	78	145
ZL5606189	4X2X1.0	11.5	105	187
ZL5606190	5X2X1.0	12.1	124	211
ZL5606191	7X2X1.0	13.1	163	269
ZL5606192	12X2X1.0	18.0	274	467
ZL5606193	15X2X1.0	19.6	334	558
ZL5606194	18X2X1.0	21.0	392	647

LONGTRONIC™

LONGTRONIC™ LF-DATA LiYCY



ZHAOLONG LONGTRONIC™ LF-DATA LiYCY 2X0.14mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as data transmission and control cables in electronics of computer systems, electronic control equipment, machine work, measuring instrument, assembly line, etc. Suitable for the place of high electrical interference.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - < 0.25mm²=1200V/min (AC)
 - ≥0.25mm²=1500V/min (AC)
- Capacitance
 - core/core approx 120nF/km
- Insulation Resistance (20°C)
 - ≥200MΩ.km
- Rated Voltage
 - 0.14mm²=350V
 - > 0.14mm²=500V
- Minimum Bending Radius
 - Fixed Application : 6D(D=cable diameter)
 - Occasional movement : 15D (D=cable diameter)

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295
 Insulation : PVC
 Insulation Color : According to DIN 47100
 Shielded : Tinned copper braiding
 Jacket : PVC
 Color : Grey (similar to RAL 7035)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Conditional oil resistance
 Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606098	2X0.14	3.8	9	19
ZL5606099	3X0.14	3.9	11	21
ZL5606100	4X0.14	4.2	14	25
ZL5606101	5X0.14	4.5	15	28
ZL5606102	7X0.14	4.8	18	32
ZL5606103	12X0.14	6.1	28	50
ZL5606104	15X0.14	6.8	34	61
ZL5606105	18X0.14	7.3	41	70
ZL5606106	2X0.25	4.4	13	26
ZL5606107	3X0.25	4.6	15	31
ZL5606108	4X0.25	4.9	21	38
ZL5606109	5X0.25	5.5	24	46
ZL5606110	7X0.25	5.9	30	57
ZL5606111	12X0.25	7.7	47	90
ZL5606112	15X0.25	8.2	54	104
ZL5606113	18X0.25	8.8	66	123
ZL5606114	2X0.34	4.8	18	33
ZL5606115	3X0.34	5.0	21	39
ZL5606116	4X0.34	5.6	25	48
ZL5606117	5X0.34	6.0	31	58

Low-Frequency Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606118	7X0.34	6.7	40	76
ZL5606119	12X0.34	8.5	62	114
ZL5606120	15X0.34	9.2	72	133
ZL5606121	18X0.34	10.2	85	163
ZL5606122	2X0.50	5.5	21	42
ZL5606123	3X0.50	5.7	28	53
ZL5606124	4X0.50	6.2	33	61
ZL5606125	5X0.50	6.9	40	75
ZL5606126	7X0.50	7.5	49	93
ZL5606127	12X0.50	9.5	83	147
ZL5606128	15 X 0.50	10.7	98	182
ZL5606129	2 X 0.75	5.9	28	51
ZL5606130	3 X 0.75	6.2	35	62
ZL5606131	4 X 0.75	6.9	45	79
ZL5606132	5 X 0.75	7.5	52	91
ZL5606133	7 X 0.75	8.1	68	115
ZL5606134	12 X 0.75	10.8	112	192
ZL5606135	15 X 0.75	11.6	137	230
ZL5606136	2 X 1.0	6.2	33	57
ZL5606137	3 X 1.0	6.7	43	74
ZL5606138	4 X 1.0	7.3	54	90
ZL5606139	5 X 1.0	7.9	65	108
ZL5606140	7 X 1.0	8.6	86	137
ZL5606141	2 X 1.5	7.5	45	77
ZL5606142	3 X 1.5	7.9	61	98
ZL5606143	4 X 1.5	8.5	77	121
ZL5606144	5 X 1.5	9.3	92	143
ZL5606145	7 X 1.5	10.5	126	197

LONGTRONIC™

LONGTRONIC™ LF-DATA LiYY-TP



ZHAOLONG LONGTRONIC™ LF-DATA LiYY-TP 2X2X0.14mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as data transmission and control cables in electronics of computer systems, electronic control equipment, machine work, measuring instrument, assembly line, etc. Suitable for the place of low electrical interference.



Technical Data

—Temperature Range

Fixed Application : -40°C ~80°C

Occasional Movement : -5°C ~70°C

—Test Voltage

< 0.25mm²=1200V/min (AC)

≥0.25mm²=1500V/min (AC)

—Capacitance

core/core approx 120nF/km

—Insulation Resistance (20°C)

≥200MΩ.km

—Rated Voltage

0.14mm²=350V

> 0.14mm²=500V

—Minimum Bending Radius

Fixed Application : 4D (D=cable diameter)

Occasional Movement : 10D (D=cable diameter)

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295

Insulation : PVC

Insulation Color : According to DIN 47100

Jacket : PVC

Color : Grey (similar to RAL 7035)

Properties

Flame resistance according to IEC60332-1

Good property of flexibility

Small bending radius

Conditional oil resistance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606049	2X2X0.14	5.0	5	22
ZL5606050	3X2X0.14	5.0	8	27
ZL5606051	4X2X0.14	5.5	10	33
ZL5606052	5X2X0.14	5.9	13	38
ZL5606053	7X2X0.14	6.4	18	49
ZL5606054	12X2X0.14	8.4	31	81
ZL5606055	15X2X0.14	9.2	39	97
ZL5606056	18X2X0.14	10.3	46	121
ZL5606057	25X2X0.14	12.1	64	161
ZL5606058	2X2X0.25	6.2	9	34
ZL5606059	3X2X0.25	6.3	14	43
ZL5606060	4X2X0.25	7.0	18	54
ZL5606061	5X2X0.25	7.4	23	62
ZL5606062	7X2X0.25	8.0	32	80
ZL5606063	12X2X0.25	10.9	55	137
ZL5606064	18X2X0.25	12.7	83	191
ZL5606065	25X2X0.25	15.6	115	270
ZL5606066	2X2X0.34	7.1	13	72
ZL5606067	3X2X0.34	7.2	19	81
ZL5606068	4X2X0.34	7.9	25	102

Low-Frequency Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606069	5X2X0.34	8.3	31	116
ZL5606070	7X2X0.34	9.0	40	147
ZL5606071	12X2X0.34	12.3	75	264
ZL5606072	18X2X0.34	14.8	113	387
ZL5606073	25X2X0.34	18.0	156	562
ZL5606074	2X2X0.50	8.1	18	97
ZL5606075	3X2X0.50	8.2	28	110
ZL5606076	4X2X0.50	9.1	37	138
ZL5606077	5X2X0.50	9.4	46	156
ZL5606078	7X2X0.50	10.7	64	207
ZL5606079	12X2X0.50	14.0	110	355
ZL5606080	15X2X0.50	15.7	138	445
ZL5606081	18X2X0.50	16.8	166	521
ZL5606082	2X2X0.75	8.9	28	122
ZL5606083	3X2X0.75	9.1	41	141
ZL5606084	4X2X0.75	10.0	55	177
ZL5606085	5X2X0.75	10.7	69	208
ZL5606086	7X2X0.75	11.7	97	265
ZL5606087	12X2X0.75	15.8	166	471
ZL5606088	15X2X0.75	17.2	207	572
ZL5606089	18X2X0.75	18.9	248	689
ZL5606090	2X2X1.0	9.6	37	144
ZL5606091	3X2X1.0	9.7	55	168
ZL5606092	4X2X1.0	10.7	74	212
ZL5606093	5X2X1.0	11.4	92	248
ZL5606094	7X2X1.0	12.4	129	317
ZL5606095	12X2X1.0	16.8	221	563
ZL5606096	15X2X1.0	18.7	276	703
ZL5606097	18X2X1.0	20.1	331	825

LONGTRONIC™

LONGTRONIC™ LF-DATA LiYY



ZHAOLONG LONGTRONIC™ LF-DATA LiYY 2X0.14mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as data transmission and control cables in electronics of computer systems, electronic control equipment, machine work, measuring instrument, assembly line, etc. Suitable for the place of low electrical interference.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - < 0.25mm²=1200V/min (AC)
 - ≥0.25mm²=1500V/min (AC)
- Capacitance
 - core/core approx 120nF/km
- Insulation Resistance (20°C)
 - ≥200MΩ.km
- Rated Voltage
 - 0.14mm²=350V
 - > 0.14mm²=500V
- Minimum Bending Radius
 - Fixed Application : 4D (D=cable diameter)
 - Occasional Movement : 10D (D=cable diameter)

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295
 Insulation : PVC
 Insulation Color : According to DIN 47100
 Jacket : PVC
 Color : Grey (similar to RAL 7035)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Conditional oil resistance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606001	2×0.14	3.2	3	14
ZL5606002	3×0.14	3.4	4	16
ZL5606003	4×0.14	3.6	5	19
ZL5606004	5×0.14	3.9	6	22
ZL5606005	7×0.14	4.2	9	27
ZL5606006	12×0.14	5.6	15	47
ZL5606007	15×0.14	6.0	19	56
ZL5606008	18×0.14	6.4	23	65
ZL5606009	2×0.25	3.8	5	20
ZL5606010	3×0.25	4.0	7	24
ZL5606011	4×0.25	4.3	9	28
ZL5606012	5×0.25	4.7	12	34
ZL5606013	7×0.25	5.1	16	42
ZL5606014	12×0.25	7.0	28	77
ZL5606015	15×0.25	7.6	35	93
ZL5606016	18×0.25	8.1	41	108
ZL5606017	2×0.34	4.2	6	25
ZL5606018	3×0.34	4.4	9	30
ZL5606019	4×0.34	4.8	13	36
ZL5606020	5×0.34	5.5	16	46

Low-Frequency Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5606021	7×0.34	5.9	22	57
ZL5606022	12×0.34	7.8	38	99
ZL5606023	15×0.34	8.5	47	119
ZL5606024	18×0.34	9.1	56	139
ZL5606025	2×0.50	4.7	9	32
ZL5606026	3×0.50	5.0	14	39
ZL5606027	4×0.50	5.6	18	50
ZL5606028	5×0.50	6.1	23	61
ZL5606029	7×0.50	6.9	32	79
ZL5606030	12×0.50	8.9	55	133
ZL5606031	15×0.50	10.1	69	170
ZL5606032	2×0.75	5.1	14	40
ZL5606033	3×0.75	5.6	21	52
ZL5606034	4×0.75	6.1	28	64
ZL5606035	5×0.75	6.9	35	81
ZL5606036	7×0.75	7.5	48	102
ZL5606037	12×0.75	10.1	83	182
ZL5606038	15×0.75	11.0	104	220
ZL5606039	2×1.0	5.6	18	50
ZL5606040	3×1.0	5.9	28	62
ZL5606041	4×1.0	6.4	37	77
ZL5606042	5×1.0	7.3	46	97
ZL5606043	7×1.0	7.9	64	123
ZL5606044	2×1.5	6.8	28	75
ZL5606045	3×1.5	7.2	41	92
ZL5606046	4×1.5	7.8	55	115
ZL5606047	5×1.5	8.6	69	141
ZL5606048	7×1.5	9.4	97	179

LONGTRONIC™ Sensor Cables

- Our sensor cables have excellent industrial data and signal transmission and anti-interference performance.
- Having very excellent flexibility and small bending radius; it can be used in the small zone.
- Environment friendly; our products is qualified with RoHS requirement.
- Star products: LONGTRONIC 307 series of products, using high-precision, high-bending-strength fine copper, IEC60228 CAT6 conductors, having excellent anti-retraction performance, good processing performance and excellent oil-resistance.

SENSOR FD 307 P P.86
SENSOR FD 307 CP P.88

- Relevant cable assemblies, please refer to the chapters in «Connecting Technology». **M series products** are in P. 240-263.



Sensor Cables

LONGTRONIC™ SENSOR 306



ZHAOLONG LONGTRONIC™ SENSOR 306 3X0.34mm² IEC60332-1 ****m YY/MM/DD

Application

According to production requests, industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Suitable for fixed application and occasional movement.



Cable Construction

Conductor : Stranded bare copper wire
 Insulation : PVC
 Insulation Color :
 three cores : blue, brown, black;
 four cores : blue, brown, black, white;
 five cores : blue, brown, black, white, yellow/green
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

Technical Data

- Temperature Range
 Fixed Application : -40°C ~80°C
 Occasional Movement : -5°C ~80°C
- Test voltage
 2000V/min (AC)
- Insulation Resistance (20°C)
 ≥20MΩ.km
- Rated Voltage
 300V
- Minimum Bending Radius
 Fixed Application : 4D (D=cable diameter)
 Occasional Movement : 7.5D (D=cable diameter)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5306001	3×0.25	PVC	4.4	7.2	27.0
ZL5306002	4×0.25	PVC	4.4	9.6	28.7
ZL5306003	3×0.34	PVC	5.2	9.4	37.1
ZL5306004	4×0.34	PVC	5.2	12.5	39.5
ZL5306005	5×0.34	PVC	5.2	15.7	42.0

LONGTRONIC™

LONGTRONIC™ SENSOR 306 P



ZHAOLONG LONGTRONIC™ SENSOR 306 P 3X0.34mm² IEC60332-1 ****m YY/MM/DD

Application

According to production requests, industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Suitable for fixed application and occasional movement.

Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~80°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Occasional Movement :
 - 7.5D (D=cable diameter)



Cable Construction

- Conductor : Stranded bare copper wire
- Insulation : PVC
- Insulation Color :
 - three cores : blue, brown, black;
 - four cores : blue, brown, black, white;
 - five cores : blue, brown, black, white, yellow/green
- Jacket : PUR
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- PUR jacket cable is extremely resistant to oil,abrasion and hydrolysis

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5306006	3×0.25	PUR	4.4	7.2	25.4
ZL5306007	4×0.25	PUR	4.4	9.6	27.7
ZL5306008	3×0.34	PUR	5.2	9.4	34.7
ZL5306009	4×0.34	PUR	5.2	12.5	37.6
ZL5306010	5×0.34	PUR	5.2	15.7	40.0

Sensor Cables

LONGTRONIC™ SENSOR 306 CY



ZHAOLONG LONGTRONIC™ SENSOR 306 CY 3X0.34mm² IEC60332-1 ****m YY/MM/DD

Application
 According to production requests, industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Suitable for fixed application and occasional movement in cases where electromagnetic interference is severe.



Cable Construction
 Conductor : Stranded bare copper wire
 Insulation : PVC
 Insulation Color :
 three cores : blue, brown, black;
 four cores : blue, brown, black, white;
 five cores : blue, brown, black, white, yellow/green
 Drain wire : Tinned copper wire
 Shield : AL/Mylar screen and tinned copper braiding
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

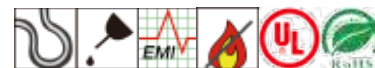
Technical Data
 —Temperature Range
 Fixed Application : -40°C ~80°C
 Occasional Movement : -5°C ~80°C
 —Test Voltage
 2000V/min (AC)
 —Insulation Resistance (20°C)
 ≥20MΩ.km
 —Rated Voltage
 300V
 —Minimum Bending Radius
 Fixed Application :
 4D (D=cable diameter)
 Occasional Movement :
 7.5D (D=cable diameter)

Properties
 Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5306011	3×0.25	PVC	5.0	19.6	41.5
ZL5306012	4×0.25	PVC	5.0	23.4	44.0
ZL5306013	3×0.34	PVC	5.2	23.2	46.2
ZL5306014	4×0.34	PVC	5.2	26.6	48.1
ZL5306015	5×0.34	PVC	5.2	31.0	51.2

LONGTRONIC™

LONGTRONIC™ SENSOR 306 CP



ZHAOLONG LONGTRONIC™ SENSOR 306 CP 3X0.34mm² IEC60332-1 ****m YY/MM/DD

Application

According to production requests, industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Suitable for fixed application and occasional movement in cases where electromagnetic interference is severe.

Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~80°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application:
 - 4D (D=cable diameter)
 - Occasional Movement :
 - 7.5D (D=cable diameter)



Cable Construction

- Conductor : Stranded bare copper wire
- Insulation : PVC
- Insulation Color :
 - three cores : blue, brown, black;
 - four cores : blue, brown, black, white;
 - five cores : blue, brown, black, white, yellow/green
- Drain wire : Tinned copper wire
- Shield : AL/Mylar screen and tinned copper braiding
- Jacket : PUR
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility and small bending radius
- Good performance of resistant to external EMI
- PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5306016	3×0.25	PUR	5.0	19.6	39.6
ZL5306017	4×0.25	PUR	5.0	23.4	42.4
ZL5306018	3×0.34	PUR	5.2	23.2	44.3
ZL5306019	4×0.34	PUR	5.2	26.6	46.5
ZL5306020	5×0.34	PUR	5.2	31.0	49.7

Sensor Cables

LONGTRONIC™ SENSOR 307



ZHAOLONG LONGTRONIC™ SENSOR 307 3X0.34mm² IEC60332-1 ****m YY/MM/DD

Application

According to production requests, industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Suitable for fixed application and occasional movement.



Technical Parameter

- Temperature Range
Fixed Application : -40°C ~80°C
Occasional Movement : -5°C ~80°C
- Test Voltage
2000V/min (AC)
- Insulation Resistance (20°C)
≥20MΩ.km
- Rated Voltage
300V
- Minimum Bending Radius
Fixed Application :
4D (D=cable diameter)
Occasional Movement :
7.5D (D=cable diameter)

Cable Construction

- Conductor : Stranded bare copper wire
- Insulation : XLPE
- Insulation Color :
three cores : blue, brown, black;
four cores : blue, brown, black, white;
five cores : blue, brown, black, white, yellow/green
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- XLPE insulation can reduce shrink when welding

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5307001	3×0.25	PVC	4.4	7.2	25.7
ZL5307002	4×0.25	PVC	4.4	9.6	26.9
ZL5307003	3×0.34	PVC	5.2	9.4	35.7
ZL5307004	4×0.34	PVC	5.2	12.5	36.7
ZL5307005	5×0.34	PVC	5.2	15.7	39.2

LONGTRONIC™

LONGTRONIC™ SENSOR FD 307 P



ZHAOLONG LONGTRONIC™ SENSOR FD 306 P 3X0.34mm² IEC60332-1 ****m YY/MM/DD

Application

According to production requests, industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Suitable for high flexible application.

Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Moved Application : -40°C ~80°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Moved Application:
 - 7.5D (D=cable diameter)



Cable Construction

- Conductor : Stranded bare copper wire
- Insulation : XLPE
- Insulation Color :
 - three cores : blue, brown, black;
 - four cores : blue, brown, black, white;
 - five cores : blue, brown, black, white, yellow/green
- Jacket : PUR
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- PUR jacket cable is extremely resistant to oil, abrasion and hydrolysis
- XLPE insulation can reduce shrink when welding

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5307026	3×0.25	PUR	4.4	7.2	24.1
ZL5307027	4×0.25	PUR	4.4	9.6	25.8
ZL5307028	3×0.34	PUR	5.2	9.4	33.3
ZL5307029	4×0.34	PUR	5.2	12.5	34.8
ZL5307030	5×0.34	PUR	5.2	15.7	37.3

Sensor Cables

LONGTRONIC™ SENSOR 307 CY



ZHAOLONG LONGTRONIC™ SENSOR 307 CY 3X0.34mm² IEC60332-1 ****m YY/MM/DD

Application

According to production requests, industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Suitable for fixed application and occasional movement in cases where electromagnetic interference is severe.



Cable Construction

- Conductor : Stranded bare copper wire
- Insulation : XLPE
- Insulation Color :
 - three cores : blue, brown, black;
 - four cores : blue, brown, black, white;
 - five cores : blue, brown, black, white, yellow/green
- Drain wire : Tinned copper wire
- Shield : AL/Mylar screen and tinned copper braiding
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility and small bending radius
- Good performance of resistant to external EMI
- XLPE insulation can reduce shrink when welding

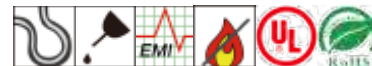
Technical Parameter

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~80°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Occasional Movement :
 - 7.5D (D=cable diameter)

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5307031	3×0.25	PVC	5.0	19.6	40.2
ZL5307032	4×0.25	PVC	5.0	23.4	42.2
ZL5307033	3×0.34	PVC	5.2	23.2	44.8
ZL5307034	4×0.34	PVC	5.2	26.6	46.2
ZL5307035	5×0.34	PVC	5.2	31.0	49.3

LONGTRONIC™

LONGTRONIC™ SENSOR FD 307 CP



ZHAOLONG LONGTRONIC™ SENSOR FD 307 CP 3X0.34mm² IEC60332-1 ****m YY/MM/DD

Application

According to production requests, industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Suitable for flexible application in the place of high electrical interference.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Moved Application : -40°C ~80°C
- Test voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Moved Application :
 - 7.5D (D=cable diameter)

Cable Construction

- Conductor : Stranded bare copper wire
- Insulation : XLPE
- Insulation Color :
 - three cores : blue, brown, black;
 - four cores : blue, brown, black, white;
 - five cores : blue, brown, black, white, yellow/green
- Drain wire : Tinned copper wire
- Shield : AL/Mylar screen and tinned copper braiding
- Jacket : PUR Color : Grey (similar to RAL 7001)

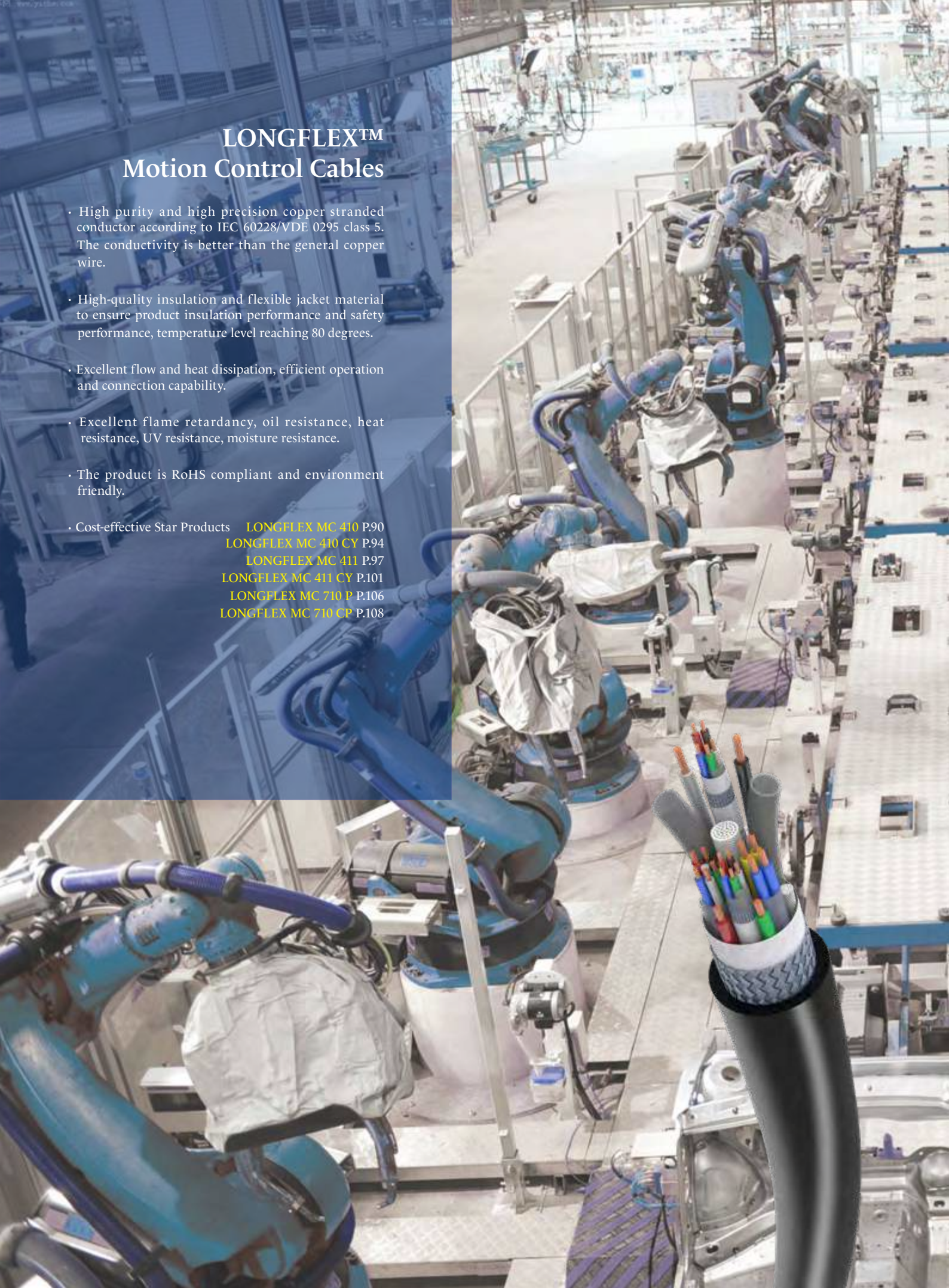
Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility and small bending radius
- Good performance of resistant to external EMI
- XLPE insulation can reduce shrink when welding

Item NO.	Spec. (mm ²)	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5307036	3×0.25	PUR	5.0	19.6	38.3
ZL5307037	4×0.25	PUR	5.0	23.4	40.6
ZL5307038	3×0.34	PUR	5.2	23.2	42.9
ZL5307039	4×0.34	PUR	5.2	26.6	44.6
ZL5307040	5×0.34	PUR	5.2	31.0	47.8

LONGFLEX™ Motion Control Cables

- High purity and high precision copper stranded conductor according to IEC 60228/VDE 0295 class 5. The conductivity is better than the general copper wire.
- High-quality insulation and flexible jacket material to ensure product insulation performance and safety performance, temperature level reaching 80 degrees.
- Excellent flow and heat dissipation, efficient operation and connection capability.
- Excellent flame retardancy, oil resistance, heat resistance, UV resistance, moisture resistance.
- The product is RoHS compliant and environment friendly.
- Cost-effective Star Products **LONGFLEX MC 410 P.90**
LONGFLEX MC 410 CY P.94
LONGFLEX MC 411 P.97
LONGFLEX MC 411 CY P.101
LONGFLEX MC 710 P P.106
LONGFLEX MC 710 CP P.108



LONGFLEX™

LONGFLEX™ MC 410



ZHAOLONG LONGFLEX™ MC 410 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system .It is suitable for fixed applications or non-sustained shuttle bending movement, and not suitable for outdoor installation.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - 4000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - See the table below
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Occasional Movement :
 - 15D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Insulation : PVC
- Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires.
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility and small bending radius
- Conditional oil resistance
- Smaller outer diameter,Reduce space

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5410001	2X0.5	4.8	9.6	35	300/500V
ZL5410002	3G0.5	5.1	14.4	42	300/500V
ZL5410003	3X0.5	5.1	14.4	42	300/500V
ZL5410004	4G0.5	5.7	19.2	54	300/500V
ZL5410005	4X0.5	5.7	19.2	54	300/500V
ZL5410006	5G0.5	6.2	24.0	63	300/500V
ZL5410007	5X0.5	6.2	24.0	63	300/500V
ZL5410008	7G0.5	6.7	33.6	81	300/500V
ZL5410009	7X0.5	6.7	33.6	81	300/500V
ZL5410010	8G0.5	8.0	38.4	97	300/500V
ZL5410011	10G0.5	8.6	48.0	116	300/500V
ZL5410012	12G0.5	8.9	58.0	131	300/500V
ZL5410013	16G0.5	10.0	76.0	169	300/500V
ZL5410014	14G0.5	9.5	67.0	153	300/500V
ZL5410015	18G0.5	10.5	86.4	188	300/500V
ZL5410016	21G0.5	11.7	101.0	221	300/500V
ZL5410017	24G0.5	12.4	114.0	254	300/500V
ZL5410018	25G0.5	12.4	120.0	261	300/500V
ZL5410019	30G0.5	13.3	144.0	304	300/500V
ZL5410020	35G0.5	14.5	168.0	356	300/500V
ZL5410021	40G0.5	15.4	192.0	400	300/500V
ZL5410022	52G0.5	17.3	250.0	517	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5410023	61G0.5	18.5	293.0	603	300/500V
ZL5410024	2X0.75	5.4	14.4	45	300/500V
ZL5410025	3G0.75	5.7	21.6	55	300/500V
ZL5410026	3X0.75	5.7	21.6	55	300/500V
ZL5410027	4G0.75	6.2	28.8	66	300/500V
ZL5410028	4X0.75	6.2	28.8	66	300/500V
ZL5410029	5G0.75	6.7	36.0	79	300/500V
ZL5410030	5X0.75	6.7	36.0	79	300/500V
ZL5410031	6G0.75	7.3	43.3	104	300/500V
ZL5410032	7G0.75	7.3	50.0	101	300/500V
ZL5410033	7X0.75	7.3	50.0	101	300/500V
ZL5410034	8G0.75	8.8	56.0	123	300/500V
ZL5410035	9G0.75	9.4	65.0	137	300/500V
ZL5410036	10G0.75	9.6	72.0	150	300/500V
ZL5410037	12G0.75	9.9	86.0	171	300/500V
ZL5410038	12X0.75	9.9	86.0	171	300/500V
ZL5410039	15G0.75	10.9	108.0	209	300/500V
ZL5410040	15X0.75	10.9	108.0	209	300/500V
ZL5410041	16G0.75	11.1	115.2	220	300/500V
ZL5410042	18G0.75	11.7	130.0	244	300/500V
ZL5410043	21G0.75	13.0	151.0	286	300/500V
ZL5410044	25G0.75	13.8	180.0	337	300/500V
ZL5410045	26G0.75	14.2	187.2	350	300/500V
ZL5410046	34G0.75	15.9	245.0	448	300/500V
ZL5410047	41G0.75	17.4	296.0	538	300/500V
ZL5410048	50G0.75	19.2	360.0	648	300/500V
ZL5410049	51G0.75	19.2	367.0	646	300/500V
ZL5410050	61G0.75	20.5	439.0	779	300/500V
ZL5410051	2X1	5.7	19.2	53	300/500V
ZL5410052	3G1	6.0	28.8	65	300/500V
ZL5410053	3X1	6.0	28.8	65	300/500V
ZL5410054	4G1	6.5	38.4	79	300/500V
ZL5410055	4X1	6.5	38.4	79	300/500V
ZL5410056	5G1	7.1	48.0	94	300/500V
ZL5410057	5X1	7.1	48.0	94	300/500V
ZL5410058	6G1	8.0	58.0	113	300/500V
ZL5410059	7G1	8.0	67.0	126	300/500V
ZL5410060	7X1	8.0	67.0	126	300/500V
ZL5410061	8G1	9.5	77.0	149	300/500V
ZL5410062	9G1	10.0	86.0	164	300/500V
ZL5410063	10G1	10.2	96.0	180	300/500V
ZL5410064	12G1	10.5	115.0	205	300/500V
ZL5410065	12X1	10.5	115.0	205	300/500V
ZL5410066	14G1	11.2	134.0	238	300/500V
ZL5410067	16G1	11.8	153.6	266	300/500V
ZL5410068	18G1	12.7	173.0	320	300/500V
ZL5410069	18X1	12.7	173.0	320	300/500V
ZL5410070	20G1	13.4	192.0	330	300/500V
ZL5410071	20X1	13.4	192.0	330	300/500V
ZL5410072	25G1	14.7	240.0	408	300/500V
ZL5410073	26G1	15.1	249.0	424	300/500V

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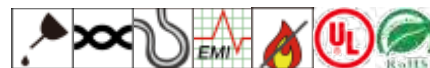
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5410074	34G1	17.1	326.0	551	300/500V
ZL5410075	36G1	17.4	346.0	578	300/500V
ZL5410076	41G1	18.8	394.0	661	300/500V
ZL5410077	50G1	20.6	480.0	797	300/500V
ZL5410078	56G1	21.4	538.0	888	300/500V
ZL5410079	61G1	22.1	586.0	958	300/500V
ZL5410080	2X1.5	6.3	29.0	68	300/500V
ZL5410081	3G1.5	6.7	43.0	84	300/500V
ZL5410082	3X1.5	6.7	43.0	84	300/500V
ZL5410083	4G1.5	7.2	58.0	104	300/500V
ZL5410084	4X1.5	7.2	58.0	104	300/500V
ZL5410085	5G1.5	8.1	72.0	128	300/500V
ZL5410086	5X1.5	8.1	72.0	128	300/500V
ZL5410087	6G1.5	8.4	86.4	157	300/500V
ZL5410088	7G1.5	8.9	101.0	166	300/500V
ZL5410089	7X1.5	8.9	101.0	166	300/500V
ZL5410090	8G1.5	10.6	115.0	210	300/500V
ZL5410091	8X1.5	10.6	116.0	210	300/500V
ZL5410092	9G1.5	11.4	130.0	221	300/500V
ZL5410093	10G1.5	11.6	143.0	243	300/500V
ZL5410094	11G1.5	11.6	158	258	300/500V
ZL5410095	12G1.5	12	173	279	300/500V
ZL5410096	12X1.5	12	173	279	300/500V
ZL5410097	14G1.5	12.7	202	323	300/500V
ZL5410098	16G1.5	13.4	230.4	361	300/500V
ZL5410099	18G1.5	14.4	259	407	300/500V
ZL5410100	21G1.5	15.7	302	469	300/500V
ZL5410101	25G1.5	16.9	360	560	300/500V
ZL5410102	26G1.5	17.3	374.4	582	300/500V
ZL5410103	32G1.5	18.7	461	704	300/500V
ZL5410104	34G1.5	19.4	490	746	300/500V
ZL5410105	41G1.5	21.3	591	895	300/500V
ZL5410106	50G1.5	23.5	720	1089	300/500V
ZL5410107	61G1.5	25.2	878	1309	300/500V
ZL5410108	2X2.5	7.5	48	101	300/500V
ZL5410109	3G2.5	8.1	72	132	300/500V
ZL5410110	4G2.5	8.9	96	163	300/500V
ZL5410111	5G2.5	10	120	200	300/500V
ZL5410112	7G2.5	11.1	168	267	300/500V
ZL5410113	12G2.5	14.8	288	445	300/500V
ZL5410114	14G2.5	15.8	336	515	300/500V
ZL5410115	18G2.5	17.8	432	648	300/500V
ZL5410116	25G2.5	20.8	600	890	300/500V
ZL5410117	34G2.5	24.4	816	1208	300/500V
ZL5410118	50G2.5	29.4	1200	1754	300/500V
ZL5410119	3G4	9.9	115	201	300/500V
ZL5410120	4G4	10.8	154	249	300/500V
ZL5410121	5G4	12.1	192	294	300/500V
ZL5410122	7G4	13.4	269	407	300/500V
ZL5410123	11G4	17.6	422	634	300/500V
ZL5410124	12G4	18.1	461	660	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5410125	3G6	11.7	172.8	289	300/500V
ZL5410126	4G6	13	230	365	300/500V
ZL5410127	5G6	14.5	288	447	300/500V
ZL5410128	7G6	16	403	600	300/500V
ZL5410129	3G10	14.6	288	466	300/500V
ZL5410130	4G10	16.2	384	590	300/500V
ZL5410131	5G10	18.1	480	722	300/500V
ZL5410132	7G10	20	672	968	300/500V
ZL5410133	3G16	17	460.8	720	300/500V
ZL5410134	4G16	18.8	614	1087	300/500V
ZL5410135	5G16	21.2	768	1370	300/500V
ZL5410136	7G16	23.4	1075	1779	300/500V
ZL5410137	3G25	21	720	1250	300/500V
ZL5410138	4G25	23.5	960	1582	300/500V
ZL5410139	5G25	26.4	1200	1998	300/500V
ZL5410140	7G25	29.1	1680	2825	300/500V
ZL5410141	3G35	23.7	1008	1700	300/500V
ZL5410142	4G35	26.4	1344	2106	300/500V
ZL5410143	5G35	29.6	1680	2635	300/500V
ZL5410144	3G50	29.1	1440	2200	300/500V
ZL5410145	4G50	32.4	1920	2800	300/500V
ZL5410146	2X2.5	8.9	48	128	450/750V
ZL5410147	3G2.5	9.6	72	162	450/750V
ZL5410148	3X2.5	9.6	72	162	450/750V
ZL5410149	4G2.5	10.7	96	203	450/750V
ZL5410150	5G2.5	11.8	120	242	450/750V
ZL5410151	7G2.5	13.1	68	321	450/750V
ZL5410152	8G2.5	15.8	192	385	450/750V
ZL5410153	2X4	10.4	77	187	450/750V
ZL5410154	3G4	11.2	115	244	450/750V
ZL5410155	4G4	12.5	154	297	450/750V
ZL5410156	5G4	13.7	192	355	450/750V
ZL5410157	7G4	15.2	269	471	450/750V
ZL5410158	3G6	12.6	173	318	450/750V
ZL5410159	4G6	13.8	230	394	450/750V
ZL5410160	5G6	15.6	288	489	450/750V
ZL5410161	7G6	17.3	403	651	450/750V
ZL5410162	3G10	15.9	288	516	450/750V
ZL5410163	4G10	17.6	384	650	450/750V
ZL5410164	5G10	19.7	480	792	450/750V
ZL5410165	7G10	21.7	672	1058	450/750V
ZL5410166	3G16	18.3	461	728	450/750V
ZL5410167	4G16	20.4	614	1087	450/750V
ZL5410168	5G16	22.8	768	1118	450/750V
ZL5410169	3G25	23.0	720	1388	450/750V
ZL5410170	4G25	25.4	960	1582	450/750V
ZL5410171	5G25	28.5	1200	1771	450/750V
ZL5410172	3G35	25.6	1008	1766	450/750V
ZL5410173	4G35	28.5	1344	2106	450/750V
ZL5410174	5G35	31.9	1680	2635	450/750V
ZL5410175	3G50	31.0	1440	2556	450/750V

LONGFLEX™

LONGFLEX™ MC 410 CY



ZHAOLONG LONGFLEX™ MC 410 CY 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system. Suitable for the place of high electrical interference. It is suitable for fixed applications or non-sustained shuttle bending movement, and not suitable for outdoor installation.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - 4000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - See the table below
- Minimum Bending Radius
 - Fixed Application :
 - 6D (D=cable diameter)
 - Occasional Movement :
 - 20D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Insulation : PVC
- Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Inner Jacket : PVC
- Shielded : Tinned copper braiding
- Outer Jacket : PVC
- Color : Transparent

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility and have small bending radius
- Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5410176	2X0.5	7.0	41	75	300/500V
ZL5410177	3G0.5	7.3	46	83	300/500V
ZL5410178	3X0.5	7.3	46	83	300/500V
ZL5410179	4G0.5	7.9	55	99	300/500V
ZL5410180	4X0.5	7.9	55	99	300/500V
ZL5410181	5G0.5	8.4	66	112	300/500V
ZL5410182	5X0.5	8.4	66	112	300/500V
ZL5410183	7G0.5	8.9	81	132	300/500V
ZL5410184	7X0.5	8.9	81	132	300/500V
ZL5410185	12G0.5	11.3	139	202	300/500V
ZL5410186	12X0.5	11.3	139	202	300/500V
ZL5410187	18G0.5	13.3	156	289	300/500V
ZL5410188	25G0.5	15.2	250	378	300/500V
ZL5410189	30G0.5	16.1	297	429	300/500V
ZL5410190	40G0.5	18.2	343	542	300/500V
ZL5410191	2X0.75	7.4	46	86	300/500V
ZL5410192	3G0.75	7.9	58	100	300/500V
ZL5410193	3X0.75	7.9	58	100	300/500V
ZL5410194	4G0.75	8.4	64	115	300/500V
ZL5410195	4X0.75	8.4	64	115	300/500V
ZL5410196	5G0.75	8.9	77	130	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5410197	5X0.75	8.9	77	130	300/500V
ZL5410198	7G0.75	9.7	102	161	300/500V
ZL5410199	7X0.75	9.7	102	161	300/500V
ZL5410200	12G0.75	12.3	177	247	300/500V
ZL5410201	12X0.75	12.3	177	247	300/500V
ZL5410202	18G0.75	14.5	243	356	300/500V
ZL5410203	18X0.75	14.5	243	356	300/500V
ZL5410204	25G0.75	16.6	307	465	300/500V
ZL5410205	34G0.75	18.9	323	601	300/500V
ZL5410206	40X0.75	20.5	369	728	300/500V
ZL5410207	41G0.75	20.6	376	734	300/500V
ZL5410208	2X1	7.9	56	98	300/500V
ZL5410209	3G1	8.2	65	111	300/500V
ZL5410210	3X1	8.2	65	111	300/500V
ZL5410211	4G1	8.7	78	130	300/500V
ZL5410212	4X1	8.7	78	130	300/500V
ZL5410213	5G1	9.5	89	153	300/500V
ZL5410214	7G1	10.2	113	185	300/500V
ZL5410215	12G1	13.3	188	307	300/500V
ZL5410216	16G1	14.6	216	390	300/500V
ZL5410217	18G1	15.5	286	418	300/500V
ZL5410218	25G1	17.5	389	544	300/500V
ZL5410219	34G1	20.3	505	738	300/500V
ZL5410220	41G1	22.0	578	864	300/500V
ZL5410221	50G1	23.8	688	1011	300/500V
ZL5410222	2X1.5	8.5	65	117	300/500V
ZL5410223	3G1.5	8.9	83	136	300/500V
ZL5410224	3X1.5	8.9	83	136	300/500V
ZL5410225	4G1.5	9.6	100	163	300/500V
ZL5410226	4X1.5	9.6	100	163	300/500V
ZL5410227	5G1.5	10.3	125	188	300/500V
ZL5410228	5X1.5	10.3	125	188	300/500V
ZL5410229	7G1.5	11.3	149	237	300/500V
ZL5410230	7X1.5	11.3	149	237	300/500V
ZL5410231	12G1.5	14.8	280	393	300/500V
ZL5410232	18G1.5	17.2	389	538	300/500V
ZL5410233	25G1.5	20.1	535	745	300/500V
ZL5410234	34G1.5	22.8	702	964	300/500V
ZL5410235	41G1.5	24.7	844.6	1123	300/500V
ZL5410236	50G1.5	27.1	1006	1372	300/500V
ZL5410237	2X2.5	9.9	112	165	300/500V
ZL5410238	3G2.5	10.3	146	192	300/500V
ZL5410239	4G2.5	11.3	167	233	300/500V
ZL5410240	5G2.5	12.6	200	283	300/500V
ZL5410241	7G2.5	13.9	288	371	300/500V
ZL5410242	12G2.5	17.6	477.3	585	300/500V
ZL5410243	2X4	11.4	120	247	300/500V
ZL5410244	4G4	13.4	237	347	300/500V
ZL5410245	5G4	14.7	280	413	300/500V
ZL5410246	2X6	13.6	180	353	300/500V
ZL5410247	4G6	15.8	318	485	300/500V

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Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5410248	5G6	17.3	441	702	300/500V
ZL5410249	7G6	18.8	530	950	300/500V
ZL5410250	2X10	16.4	256	492	300/500V
ZL5410251	3G10	17.4	362.4	507	300/500V
ZL5410252	4G10	19	518	735	300/500V
ZL5410253	5G10	21.3	595	847	300/500V
ZL5410254	7G10	23.2	796	1039	300/500V
ZL5410255	2X16	18.6	390	698	300/500V
ZL5410256	4G16	22.2	804	1395	300/500V
ZL5410257	5G16	24.4	935	1440	300/500V
ZL5410258	4G25	26.9	1161	1730	300/500V
ZL5410259	5G25	30	1400	2090	300/500V
ZL5410260	4G35	30.2	1543	2210	300/500V
ZL5410261	2X1.5	9.9	65	132	450/750V
ZL5410262	3G1.5	10.3	79	170	450/750V
ZL5410263	4G1.5	11.3	97	204	450/750V
ZL5410264	5G1.5	12.6	116	246	450/750V
ZL5410265	7G1.5	13.9	149	320	450/750V
ZL5410266	3G2.5	11.8	146	211	450/750V
ZL5410267	4G2.5	13.5	167	310	450/750V
ZL5410268	5G2.5	14.6	200	326	450/750V
ZL5410269	7G2.5	15.9	288	444	450/750V
ZL5410270	4G4	15.1	237	403	450/750V
ZL5410271	5G4	16.5	328	478	450/750V
ZL5410272	4G6	16.6	318	521	450/750V
ZL5410273	5G6	18.2	441	624	450/750V
ZL5410274	3G10	18.9	414	690	450/750V
ZL5410275	4G10	21.1	558	843	450/750V
ZL5410276	5G10	23.1	714	1004	450/750V
ZL5410277	3G16	21.7	607	910	450/750V
ZL5410278	4G16	23.9	804	1164	450/750V
ZL5410279	5G16	26.8	1050	1812	450/750V
ZL5410280	3G25	26.6	936	1330	450/750V
ZL5410281	4G25	29.4	1289	1903	450/750V
ZL5410282	5G25	32.6	1446	2374	450/750V
ZL5410283	3G35	29.4	1258	1370	450/750V
ZL5410284	4G35	32.4	1693	2489	450/750V

LONGFLEX™ Ethernet Cables
 Bus Cables
 Low-Frequency Data Cables
 Sensor Cables
LONGFLEX™
 Motion Control Cables
 Towing Cables
 Servo Cables
 Robot Cables
 High-Temperature Cables
 Electrical Installation Cables
 Medical Cables
 Connection Technology
 Technical Data

Motion Control Cables

LONGFLEX™ MC 411



ZHAOLONG LONGFLEX™ MC 411 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system .It is suitable for fixed applications or non-sustained shuttle bending movement, and not suitable for outdoor installation.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - 4000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - See the table below
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Occasional Movement :
 - 15D (D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
 Insulation : PVC
 Insulation Color : Five cores and below according to DIN VDE 0293, six cores and above according to ZHAOLONG color code ,yellow and green wires are optional
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
 Small bending radius and good property of flexibility
 Conditional oil resistance
 Smaller outer diameter,Reduce space

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5411001	2X0.5	4.8	9.6	35	300/500V
ZL5411002	3G0.5	5.1	14.4	42	300/500V
ZL5411003	3X0.5	5.1	14.4	42	300/500V
ZL5411004	4G0.5	5.7	19.2	54	300/500V
ZL5411005	4X0.5	5.7	19.2	54	300/500V
ZL5411006	5G0.5	6.2	24.0	63	300/500V
ZL5411007	5X0.5	6.2	24.0	63	300/500V
ZL5411008	7G0.5	6.7	33.6	81	300/500V
ZL5411009	7X0.5	6.7	33.6	81	300/500V
ZL5411010	8G0.5	8.0	38.4	97	300/500V
ZL5411011	10G0.5	8.6	48.0	116	300/500V
ZL5411012	12G0.5	8.9	58.0	131	300/500V
ZL5411013	16G0.5	10.0	76.0	169	300/500V
ZL5411014	14G0.5	9.5	67.0	153	300/500V
ZL5411015	18G0.5	10.5	86.4	188	300/500V
ZL5411016	21G0.5	11.7	101.0	221	300/500V
ZL5411017	24G0.5	12.4	114.0	254	300/500V
ZL5411018	25G0.5	12.4	120.0	261	300/500V
ZL5411019	30G0.5	13.3	144.0	304	300/500V
ZL5411020	35G0.5	14.5	168.0	356	300/500V
ZL5411021	40G0.5	15.4	192.0	400	300/500V
ZL5411022	52G0.5	17.3	250.0	517	300/500V

LONGFLEX™

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5411023	61G0.5	18.5	293.0	603	300/500V
ZL5411024	2X0.75	5.4	14.4	45	300/500V
ZL5411025	3G0.75	5.7	21.6	55	300/500V
ZL5411026	3X0.75	5.7	21.6	55	300/500V
ZL5411027	4G0.75	6.2	28.8	66	300/500V
ZL5411028	4X0.75	6.2	28.8	66	300/500V
ZL5411029	5G0.75	6.7	36.0	79	300/500V
ZL5411030	5X0.75	6.7	36.0	79	300/500V
ZL5411031	6G0.75	7.3	43.3	94.3	300/500V
ZL5411032	7G0.75	7.3	50.0	101	300/500V
ZL5411033	7X0.75	7.3	50.0	101	300/500V
ZL5411034	8G0.75	8.8	56.0	123	300/500V
ZL5411035	9G0.75	9.4	65.0	137	300/500V
ZL5411036	10G0.75	9.6	72.0	150	300/500V
ZL5411037	12G0.75	9.9	86.0	171	300/500V
ZL5411038	12X0.75	9.9	86.0	171	300/500V
ZL5411039	15G0.75	10.9	108.0	209	300/500V
ZL5411040	15X0.75	10.9	108.0	209	300/500V
ZL5411041	16G0.75	11.1	115.2	220	300/500V
ZL5411042	18G0.75	11.7	130.0	244	300/500V
ZL5411043	21G0.75	13.0	151.0	286	300/500V
ZL5411044	25G0.75	13.8	180.0	337	300/500V
ZL5411045	26G0.75	14.2	187.2	350	300/500V
ZL5411046	34G0.75	15.9	245.0	448	300/500V
ZL5411047	41G0.75	17.4	296.0	538	300/500V
ZL5411048	50G0.75	19.2	360.0	648	300/500V
ZL5411049	51G0.75	19.2	367.0	646	300/500V
ZL5411050	61G0.75	20.5	439.0	779	300/500V
ZL5411051	2X1	5.7	19.2	53	300/500V
ZL5411052	3G1	6.0	28.8	65	300/500V
ZL5411053	3 X1	6.0	28.8	65	300/500V
ZL5411054	4G1	6.5	38.4	79	300/500V
ZL5411055	4X1	6.5	38.4	79	300/500V
ZL5411056	5G1	7.1	48.0	94	300/500V
ZL5411057	5X1	7.1	48.0	94	300/500V
ZL5411058	6G1	8.0	58.0	113	300/500V
ZL5411059	7G1	8.0	67.0	126	300/500V
ZL5411060	7X1	8.0	67.0	126	300/500V
ZL5411061	8G1	9.5	77.0	149	300/500V
ZL5411062	9G1	10.0	86.0	164	300/500V
ZL5411063	10G1	10.2	96.0	180	300/500V
ZL5411064	12G1	10.5	115.0	205	300/500V
ZL5411065	12X1	10.5	115.0	205	300/500V
ZL5411066	14G1	11.2	134.0	238	300/500V
ZL5411067	16G1	11.8	153.6	266	300/500V
ZL5411068	18G1	12.7	173.0	320	300/500V
ZL5411069	18X1	12.7	173.0	320	300/500V
ZL5411070	20G1	13.4	192.0	330	300/500V
ZL5411071	20X1	13.4	192.0	330	300/500V
ZL5411072	25G1	14.7	240.0	408	300/500V
ZL5411073	26G1	15.1	249.0	424	300/500V

Motion Control Cables

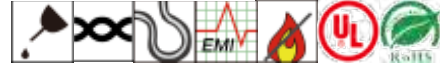
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5411074	34G1	17.1	326.0	551	300/500V
ZL5411075	36G1	17.4	346.0	578	300/500V
ZL5411076	41G1	18.8	394.0	661	300/500V
ZL5411077	50G1	20.6	480.0	797	300/500V
ZL5411078	56G1	21.4	538.0	888	300/500V
ZL5411079	61G1	22.1	586.0	958	300/500V
ZL5411080	2X1.5	6.3	29.0	68	300/500V
ZL5411081	3G1.5	6.7	43.0	84	300/500V
ZL5411082	3X1.5	6.7	43.0	84	300/500V
ZL5411083	4G1.5	7.2	58.0	104	300/500V
ZL5411084	4X1.5	7.2	58.0	104	300/500V
ZL5411085	5G1.5	8.1	72.0	128	300/500V
ZL5411086	5X1.5	8.1	72.0	128	300/500V
ZL5411087	6G1.5	8.4	86.4	157	300/500V
ZL5411088	7G1.5	8.9	101.0	166	300/500V
ZL5411089	7X1.5	8.9	101.0	166	300/500V
ZL5411090	8G1.5	10.6	115.0	210	300/500V
ZL5411091	8X1.5	10.6	116.0	210	300/500V
ZL5411092	9G1.5	11.4	130.0	221	300/500V
ZL5411093	10G1.5	11.6	143.0	243	300/500V
ZL5411094	11G1.5	11.6	158	258	300/500V
ZL5411095	12G1.5	12	173	279	300/500V
ZL5411096	12X1.5	12	173	279	300/500V
ZL5411097	14G1.5	12.7	202	323	300/500V
ZL5411098	16G1.5	13.4	230.4	361	300/500V
ZL5411099	18G1.5	14.4	259	407	300/500V
ZL5411100	21G1.5	15.7	302	469	300/500V
ZL5411101	25G1.5	16.9	360	560	300/500V
ZL5411102	26G1.5	17.3	374.4	582	300/500V
ZL5411103	32G1.5	18.7	461	704	300/500V
ZL5411104	34G1.5	19.4	490	746	300/500V
ZL5411105	41G1.5	21.3	591	895	300/500V
ZL5411106	50G1.5	23.5	720	1089	300/500V
ZL5411107	61G1.5	25.2	878	1309	300/500V
ZL5411108	2X2.5	7.5	48	101	300/500V
ZL5411109	3G2.5	8.1	72	132	300/500V
ZL5411110	4G2.5	8.9	96	163	300/500V
ZL5411111	5G2.5	10	120	200	300/500V
ZL5411112	7G2.5	11.1	168	267	300/500V
ZL5411113	12G2.5	14.8	288	445	300/500V
ZL5411114	14G2.5	15.8	336	515	300/500V
ZL5411115	18G2.5	17.8	432	648	300/500V
ZL5411116	25G2.5	20.8	600	890	300/500V
ZL5411117	34G2.5	24.4	816	1208	300/500V
ZL5411118	50G2.5	29.4	1200	1754	300/500V
ZL5411119	3G4	9.9	115	201	300/500V
ZL5411120	4G4	10.8	154	249	300/500V
ZL5411121	5G4	12.1	192	294	300/500V
ZL5411122	7G4	13.4	269	407	300/500V
ZL5411123	11G4	17.6	422	634	300/500V
ZL5411124	12G4	18.1	461	660	300/500V

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Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5411125	3G6	11.7	172.8	289	300/500V
ZL5411126	4G6	13	230	365	300/500V
ZL5411127	5G6	14.5	288	447	300/500V
ZL5411128	7G6	16	403	600	300/500V
ZL5411129	3G10	14.6	288	466	300/500V
ZL5411130	4G10	16.2	384	590	300/500V
ZL5411131	5G10	18.1	480	722	300/500V
ZL5411132	7G10	20	672	968	300/500V
ZL5411133	3G16	17	460.8	720	300/500V
ZL5411134	4G16	18.8	614	1087	300/500V
ZL5411135	5G16	21.2	768	1370	300/500V
ZL5411136	7G16	23.4	1075	1779	300/500V
ZL5411137	3G25	21	720	1250	300/500V
ZL5411138	4G25	23.5	960	1582	300/500V
ZL5411139	5G25	26.4	1200	1998	300/500V
ZL5411140	7G25	29.1	1680	2825	300/500V
ZL5411141	3G35	23.7	1008	1700	300/500V
ZL5411142	4G35	26.4	1344	2106	300/500V
ZL5411143	5G35	29.6	1680	2635	300/500V
ZL5411144	3G50	29.1	1440	2200	300/500V
ZL5411145	4G50	32.4	1920	2800	300/500V
ZL5411146	2X2.5	8.9	48	128	450/750V
ZL5411147	3G2.5	9.6	72	162	450/750V
ZL5411148	3X2.5	9.6	72	162	450/750V
ZL5411149	4G2.5	10.7	96	203	450/750V
ZL5411150	5G2.5	11.8	120	242	450/750V
ZL5411151	7G2.5	13.1	168	321	450/750V
ZL5411152	8G2.5	15.8	192	385	450/750V
ZL5411153	2X4	10.4	77	187	450/750V
ZL5411154	3G4	11.2	115	244	450/750V
ZL5411155	4G4	12.5	154	297	450/750V
ZL5411156	5G4	13.7	192	355	450/750V
ZL5411157	7G4	15.2	269	471	450/750V
ZL5411158	3G6	12.6	173	318	450/750V
ZL5411159	4G6	13.8	230	394	450/750V
ZL5411160	5G6	15.6	288	489	450/750V
ZL5411161	7G6	17.3	403	651	450/750V
ZL5411162	3G10	15.9	288	516	450/750V
ZL5411163	4G10	17.6	384	650	450/750V
ZL5411164	5G10	19.7	480	792	450/750V
ZL5411165	7G10	21.7	672	1058	450/750V
ZL5411166	3G16	18.3	461	728	450/750V
ZL5411167	4G16	20.4	614	1087	450/750V
ZL5411168	5G16	22.8	768	1118	450/750V
ZL5411169	3G25	23.0	720	1388	450/750V
ZL5411170	4G25	25.4	960	1582	450/750V
ZL5411171	5G25	28.5	1200	1771	450/750V
ZL5411172	3G35	25.6	1008	1766	450/750V
ZL5411173	4G35	28.5	1344	2106	450/750V
ZL5411174	5G35	31.9	1680	2635	450/750V
ZL5411175	3G50	31.0	1440	2556	450/750V

Motion Control Cables

LONGFLEX™ MC 411 CY



ZHAOLONG LONGFLEX™ MC 411 CY 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system. Suitable for the place of high electrical interference. It is suitable for fixed applications or non-sustained shuttle bending movement, and not suitable for outdoor installation.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional movement : -5°C ~70°C
- Fixed Application
 - 4000V
- Insulation resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - Fixed Application
- Minimum Bending Radius
 - Fixed Application :
 - 6D (D=cable diameter)
 - Occasional movement :
 - 20D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Insulation : PVC
- Insulation Color :Five cores and below according to DIN VDE 0293, six cores and above according to ZHAOLONG color code ,yellow and green wires are optional
- Inner Jacket : PVC
- Shielded : Tinned copper braiding
- Outer Jacket : PVC Color : Transparent

Properties

- Flame resistance according to IEC60332-1
- Have small bending radius and good property of flexibility
- Conditional oil resistance
- Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5411176	2X0.5	7.0	41	75	300/500V
ZL5411177	3G0.5	7.3	46	83	300/500V
ZL5411178	3X0.5	7.3	46	83	300/500V
ZL5411179	4G0.5	7.9	55	99	300/500V
ZL5411180	4X0.5	7.9	55	99	300/500V
ZL5411181	5G0.5	8.4	66	112	300/500V
ZL5411182	5X0.5	8.4	66	112	300/500V
ZL5411183	7G0.5	8.9	81	132	300/500V
ZL5411184	7X0.5	8.9	81	132	300/500V
ZL5411185	12G0.5	11.3	139	202	300/500V
ZL5411186	12X0.5	11.3	139	202	300/500V
ZL5411187	18G0.5	13.3	156	289	300/500V
ZL5411188	25G0.5	15.2	250	378	300/500V
ZL5411189	30G0.5	16.1	297	429	300/500V
ZL5411190	40G0.5	18.2	343	542	300/500V
ZL5411191	2X0.75	7.4	46	86	300/500V
ZL5411192	3G0.75	7.9	58	100	300/500V
ZL5411193	3X0.75	7.9	58	100	300/500V
ZL5411194	4G0.75	8.4	64	115	300/500V
ZL5411195	4X0.75	8.4	64	115	300/500V
ZL5411196	5G0.75	8.9	77	130	300/500V

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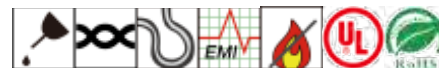
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5411197	5X0.75	8.9	77	130	300/500V
ZL5411198	7G0.75	9.7	102	161	300/500V
ZL5411199	7X0.75	9.7	102	161	300/500V
ZL5411200	12G0.75	12.3	177	247	300/500V
ZL5411201	12X0.75	12.3	177	247	300/500V
ZL5411202	18G0.75	14.5	243	356	300/500V
ZL5411203	18X0.75	14.5	243	356	300/500V
ZL5411204	25G0.75	16.6	307	465	300/500V
ZL5411205	34G0.75	18.9	323	601	300/500V
ZL5411206	40X0.75	20.5	369	728	300/500V
ZL5411207	41G0.75	20.6	376	734	300/500V
ZL5411208	2X1	7.9	56	98	300/500V
ZL5411209	3G1	8.2	65	111	300/500V
ZL5411210	3X1	8.2	65	111	300/500V
ZL5411211	4G1	8.7	78	130	300/500V
ZL5411212	4X1	8.7	78	130	300/500V
ZL5411213	5G1	9.5	89	153	300/500V
ZL5411214	7G1	10.2	113	185	300/500V
ZL5411215	12G1	13.3	188	307	300/500V
ZL5411216	16G1	14.6	216	390	300/500V
ZL5411217	18G1	15.5	286	418	300/500V
ZL5411218	25G1	17.5	389	544	300/500V
ZL5411219	34G1	20.3	505	738	300/500V
ZL5411220	41G1	22.0	578	864	300/500V
ZL5411221	50G1	23.8	688	1011	300/500V
ZL5411222	2X1.5	8.5	65	117	300/500V
ZL5411223	3G1.5	8.9	83	136	300/500V
ZL5411224	3X1.5	8.9	83	136	300/500V
ZL5411225	4G1.5	9.6	100	163	300/500V
ZL5411226	4X1.5	9.6	100	163	300/500V
ZL5411227	5G1.5	10.3	125	188	300/500V
ZL5411228	5X1.5	10.3	125	188	300/500V
ZL5411229	7G1.5	11.3	149	237	300/500V
ZL5411230	7X1.5	11.3	149	237	300/500V
ZL5411231	12G1.5	14.8	280	393	300/500V
ZL5411232	18G1.5	17.2	389	538	300/500V
ZL5411233	25G1.5	20.1	535	745	300/500V
ZL5411234	34G1.5	22.8	702	964	300/500V
ZL5411235	41G1.5	24.7	844.6	1123	300/500V
ZL5411236	50G1.5	27.1	1006	1372	300/500V
ZL5411237	2X2.5	9.9	112	165	300/500V
ZL5411238	3G2.5	10.3	146	192	300/500V
ZL5411239	4G2.5	11.3	167	233	300/500V
ZL5411240	5G2.5	12.6	200	283	300/500V
ZL5411241	7G2.5	13.9	288	371	300/500V
ZL5411242	12G2.5	17.6	477.3	585	300/500V
ZL5411243	2X4	11.4	120	247	300/500V
ZL5411244	4G4	13.4	237	347	300/500V
ZL5411245	5G 4	14.7	280	413	300/500V
ZL5411246	2X6	13.6	180	353	300/500V
ZL5411247	4G6	15.8	318	485	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5411248	5G6	17.3	441	702	300/500V
ZL5411249	7G6	18.8	530	950	300/500V
ZL5411250	2X10	16.4	256	492	300/500V
ZL5411251	3G10	17.4	362.4	507	300/500V
ZL5411252	4G10	19	518	735	300/500V
ZL5411253	5G10	21.3	595	847	300/500V
ZL5411254	7G10	23.2	796	1039	300/500V
ZL5411255	2X16	18.6	390	698	300/500V
ZL5411256	4G16	22.2	804	1395	300/500V
ZL5411257	5G16	24.4	935	1440	300/500V
ZL5411258	4G25	26.9	1161	1730	300/500V
ZL5411259	5G25	30	1400	2090	300/500V
ZL5411260	4G35	30.2	1543	2210	300/500V
ZL5411261	2X1.5	9.9	65	132	450/750V
ZL5411262	3G1.5	10.3	79	170	450/750V
ZL5411263	4G1.5	11.3	97	204	450/750V
ZL5411264	5G1.5	12.6	116	246	450/750V
ZL5411265	7G1.5	13.9	149	320	450/750V
ZL5411266	3G2.5	11.8	146	211	450/750V
ZL5411267	4G2.5	13.5	167	310	450/750V
ZL5411268	5G2.5	14.6	200	326	450/750V
ZL5411269	7G2.5	15.9	288	444	450/750V
ZL5411270	4G4	15.1	237	403	450/750V
ZL5411271	5G4	16.5	328	478	450/750V
ZL5411272	4G6	16.6	318	521	450/750V
ZL5411273	5G6	18.2	441	624	450/750V
ZL5411274	3G10	18.9	414	690	450/750V
ZL5411275	4G10	21.1	558	843	450/750V
ZL5411276	5G10	23.1	714	1004	450/750V
ZL5411277	3G16	21.7	607	910	450/750V
ZL5411278	4G16	23.9	804	1164	450/750V
ZL5411279	5G16	26.8	1050	1812	450/750V
ZL5411280	3G25	26.6	936	1330	450/750V
ZL5411281	4G25	29.4	1289	1903	450/750V
ZL5411282	5G25	32.6	1446	2374	450/750V
ZL5411283	3G35	29.4	1258	1370	450/750V
ZL5411284	4G35	32.4	1693	2489	450/750V

LONGFLEX™

LONGFLEX™ MC 412 CY



ZHAOLONG LONGFLEX™ MC 412 CY 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system. Suitable for the place of high electrical interference. It is suitable for fixed applications or non-sustained shuttle bending movement, and not suitable for outdoor installation.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - Core/Core : 4000V
 - Core/Shield : 2000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - See the table below
- Minimum Bending Radius
 - Fixed Application :
 - 6D (D=cable diameter)
 - Occasional Movement :
 - 20D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/VDE 0295 class 5
- Insulation : PVC
- Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Shield : Tinned copper braiding
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Have small bending radius and good property of flexibility
- Conditional oil resistance
- Good performance of resistant to external EMI
- No inner jacket , Smaller outer diameter , Reduce cabling space

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5412001	2X0.5	5.8	36	45	300/500V
ZL5412002	3G0.5	6.1	43	59	300/500V
ZL5412003	3X0.5	6.1	43	59	300/500V
ZL5412004	4G0.5	6.5	49	71	300/500V
ZL5412005	4X0.5	6.5	49	71	300/500V
ZL5412006	5G0.5	7.0	57	86	300/500V
ZL5412007	5X0.5	7.0	57	86	300/500V
ZL5412008	7G0.5	7.5	69	105	300/500V
ZL5412009	7X0.5	7.5	69	105	300/500V
ZL5412010	12G0.5	9.9	104	200	300/500V
ZL5412011	12X0.5	9.9	104	200	300/500V
ZL5412012	18G0.5	11.5	141	275	300/500V
ZL5412013	18X0.5	11.5	141	275	300/500V
ZL5412014	25G0.5	13.4	211	350	300/500V
ZL5412015	25X0.5	13.4	211	350	300/500V
ZL5412016	2X0.75	6.2	43	56	300/500V
ZL5412017	3G0.75	6.5	52	70	300/500V
ZL5412018	3X0.75	6.5	52	70	300/500V
ZL5412019	4G0.75	7.0	61	95	300/500V
ZL5412020	4X0.75	7.0	61	95	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5412021	5G0.75	7.7	72	108	300/500V
ZL5412022	5X0.75	7.7	72	108	300/500V
ZL5412023	7G0.75	8.3	89	127	300/500V
ZL5412024	7X0.75	8.3	89	127	300/500V
ZL5412025	12G0.75	10.9	138	232	300/500V
ZL5412026	18G0.75	12.7	211	315	300/500V
ZL5412027	25G0.75	14.8	280	435	300/500V
ZL5412028	25X0.75	14.8	280	435	300/500V
ZL5412029	2X1	6.5	51	71	300/500V
ZL5412030	3G1	6.8	62	86	300/500V
ZL5412031	3X1	6.8	62	86	300/500V
ZL5412032	4G1	7.3	74	98	300/500V
ZL5412033	4X1	7.3	74	98	300/500V
ZL5412034	5G1	8.1	88	121	300/500V
ZL5412035	5X1	8.1	88	121	300/500V
ZL5412036	7G1	8.8	112	147	300/500V
ZL5412037	7X1	8.8	112	147	300/500V
ZL5412038	12G1	11.5	185	285	300/500V
ZL5412039	18G1	13.9	268	395	300/500V
ZL5412040	25G1	15.9	354	486	300/500V
ZL5412041	2X1.5	7.1	65	86	300/500V
ZL5412042	3G1.5	7.5	82	112	300/500V
ZL5412043	3X1.5	7.5	82	112	300/500V
ZL5412044	4G1.5	8.2	100	135	300/500V
ZL5412045	4X1.5	8.2	100	135	300/500V
ZL5412046	5G1.5	8.9	119	148	300/500V
ZL5412047	5X1.5	8.9	119	148	300/500V
ZL5412048	7G1.5	9.9	154	192	300/500V
ZL5412049	7X1.5	9.9	154	192	300/500V
ZL5412050	12G1.5	13.0	268	365	300/500V
ZL5412051	18G1.5	15.6	373	520	300/500V
ZL5412052	25G1.5	17.9	530	734	300/500V
ZL5412053	34G1.5	20.8	683	944	300/500V
ZL5412054	3G2.5	8.9	118	151	300/500V
ZL5412055	4G2.5	9.9	147	188	300/500V
ZL5412056	5G2.5	11	176	270	300/500V
ZL5412057	7G2.5	11.9	253	340	300/500V
ZL5412058	12G2.5	16	355	540	300/500V
ZL5412059	18G2.5	19	569	782	300/500V
ZL5412060	25G2.5	22.2	827	1358	300/500V
ZL5412061	4G4	11.6	248	305	300/500V
ZL5412062	7G4	14.4	355	500	300/500V
ZL5412063	4G6	14.2	343	440	300/500V
ZL5412064	7G6	17	505	672	300/500V
ZL5412065	4G10	17.2	495	680	300/500V
ZL5412066	5G10	19.5	592	824	300/500V
ZL5412067	4G16	20.2	800	1050	300/500V
ZL5412068	5G16	22.6	895	1285	300/500V
ZL5412069	4G25	25.1	1075	1413	300/500V
ZL5412070	5G25	28	1400	1976	300/500V
ZL5412071	4G35	28	1576	2070	300/500V

LONGFLEX™

LONGFLEX™ MC 710 P



ZHAOLONG LONGFLEX™ MC 710 P 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system. Suitable for greasy and wet environment . It is suitable for fixed applications or non-sustained shuttle bending movement, also can be used in outdoor.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - 4000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - See the table below
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Occasional Movement :
 - 12.5D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Insulation : PVC
- Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Jacket : PUR
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Have small bending radius and good property of flexibility
- Extremely oil resistance
- Abrasion resistance and anti-hydrolysis
- Smaller outer diameter , Reduce cabling space

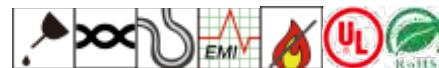
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5710001	2X0.5	4.8	10.0	32	300/500V
ZL5710002	3G0.5	5.1	15.0	43	300/500V
ZL5710003	3X0.5	5.1	15.0	43	300/500V
ZL5710004	4G0.5	5.7	19.2	50	300/500V
ZL5710005	4X0.5	5.7	19.2	50	300/500V
ZL5710006	5G0.5	6.2	24.0	59	300/500V
ZL5710007	5X0.5	6.2	24.0	59	300/500V
ZL5710008	7G0.5	6.7	34.0	73	300/500V
ZL5710009	7X0.5	6.7	34.0	73	300/500V
ZL5710010	10G0.5	8.6	48.0	109	300/500V
ZL5710011	12G0.5	8.9	57.6	125	300/500V
ZL5710012	18G0.5	10.5	87.0	180	300/500V
ZL5710013	25G0.5	12.4	120.0	250	300/500V
ZL5710014	34G0.5	14.3	164.0	333	300/500V
ZL5710015	41G0.5	15.7	197.0	400	300/500V
ZL5710016	2X0.75	5.4	14.4	41	300/500V
ZL5710017	3G0.75	5.7	21.6	51	300/500V
ZL5710018	3X0.75	5.7	21.6	51	300/500V
ZL5710019	4G0.75	6.2	28.8	62	300/500V
ZL5710020	4X0.75	6.2	28.8	62	300/500V
ZL5710021	5G0.75	6.7	36.0	74	300/500V
ZL5710022	5X0.75	6.7	36.0	74	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5710023	7G0.75	7.3	50.0	97	300/500V
ZL5710024	7X0.75	7.3	50.0	97	300/500V
ZL5710025	10G0.75	9.6	72.0	142	300/500V
ZL5710026	12G0.75	9.9	86.4	163	300/500V
ZL5710027	18G0.75	11.7	129.6	234	300/500V
ZL5710028	25G0.75	13.8	180.0	324	300/500V
ZL5710029	34G0.75	15.9	244.8	431	300/500V
ZL5710030	41G0.75	17.4	295.2	529	300/500V
ZL5710031	2X1	5.7	19.2	48	300/500V
ZL5710032	3G1	6.0	28.8	61	300/500V
ZL5710033	3X1	6.0	28.8	61	300/500V
ZL5710034	4G1	6.5	38.4	74	300/500V
ZL5710035	4X1	6.5	38.4	74	300/500V
ZL5710036	5G1	7.1	48.0	89	300/500V
ZL5710037	5X1	7.1	48.0	89	300/500V
ZL5710038	7G1	8.0	67.0	116	300/500V
ZL5710039	10G1	10.2	96.0	171	300/500V
ZL5710040	12G1	10.5	115.0	197	300/500V
ZL5710041	18G1	12.7	173.0	289	300/500V
ZL5710042	25G1	14.7	240.0	412	300/500V
ZL5710043	34G1	17.1	326.4	532	300/500V
ZL5710044	41G1	18.8	393.6	638	300/500V
ZL5710045	2X1.5	6.3	29.0	63	300/500V
ZL5710046	3G1.5	6.7	43.0	79	300/500V
ZL5710047	3X1.5	6.7	43.0	79	300/500V
ZL5710048	4G1.5	7.2	58.0	98	300/500V
ZL5710049	4X1.5	7.2	58.0	98	300/500V
ZL5710050	5G1.5	8.1	72.0	121	300/500V
ZL5710051	5X1.5	8.1	72.0	121	300/500V
ZL5710052	7G1.5	8.9	101.0	159	300/500V
ZL5710053	7X1.5	8.9	101.0	159	300/500V
ZL5710054	12G1.5	12.0	173.0	268	300/500V
ZL5710055	18G1.5	13.4	259.5	392	300/500V
ZL5710056	25G1.5	16.9	360.0	531	300/500V
ZL5710057	34G1.5	19.4	489.6	722	300/500V
ZL5710058	41G1.5	21.3	590.4	867	300/500V
ZL5710059	3G2.5	8.1	72.0	132	300/500V
ZL5710060	4G2.5	8.9	96.0	163	300/500V
ZL5710061	5G2.5	10.0	120.0	186	300/500V
ZL5710062	7G2.5	11.1	168.0	267	300/500V
ZL5710063	12G2.5	14.8	288.0	445	300/500V
ZL5710064	4G4	10.8	154.0	237	300/500V
ZL5710065	5G4	12.1	192.0	291	300/500V
ZL5710066	7G4	13.4	269.0	391	300/500V
ZL5710067	4G6	13.0	230.4	327	300/500V
ZL5710068	5G6	14.5	288.0	424	300/500V
ZL5710069	7G6	16.0	403.0	580	300/500V
ZL5710070	4G10	16.2	384.0	567	300/500V
ZL5710071	5G10	18.1	480.0	695	300/500V
ZL5710072	7G10	20.0	672.0	937	300/500V
ZL5710073	4G16	18.8	614.4	1064	300/500V

LONGFLEX™

LONGFLEX™ MC 710 CP



ZHAOLONG LONGFLEX™ MC 710 CP 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system. Suitable for greasy and wet environment of high electrical interference. It is suitable for fixed applications or non-sustained shuttle bending movement, also can be used in outdoor.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - 4000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - see the table below
- Minimum Bending Radius
 - Fixed Application :
 - 6D (D=cable diameter)
 - Occasional Movement :
 - 20D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Insulation : PVC
- Insulation Color :According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Inner jacket : PVC
- Shield : Tinned copper braiding
- Outer Jacket : PUR Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Have small bending radius and good property of flexibility
- Extremely oil resistance, Abrasion resistance and anti-hydrolysis
- Good performance of resistant to external EMI

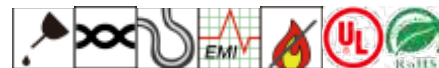
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5710074	2X0.75	7.4	45.0	85	300/500V
ZL5710075	3G0.75	7.9	52.0	99	300/500V
ZL5710076	3X0.75	7.9	52.0	99	300/500V
ZL5710077	4G0.75	8.4	77.0	114	300/500V
ZL5710078	4X0.75	8.4	77.0	114	300/500V
ZL5710079	5G0.75	8.9	84.0	130	300/500V
ZL5710080	5X0.75	8.9	84.0	130	300/500V
ZL5710081	7G0.75	9.7	92.0	161	300/500V
ZL5710082	7X0.75	9.7	92.0	161	300/500V
ZL5710083	12G0.75	12.3	138.0	245	300/500V
ZL5710084	18G0.75	14.5	219.0	354	300/500V
ZL5710085	25G0.75	16.6	277.0	463	300/500V
ZL5710086	34G0.75	18.9	420.0	598	300/500V
ZL5710087	41G0.75	20.6	500.0	725	300/500V
ZL5710088	2X1	7.9	50.0	97	300/500V
ZL5710089	3G1	8.2	77.0	111	300/500V
ZL5710090	3X1	8.2	77.0	111	300/500V
ZL5710091	4G1	8.7	87.0	129	300/500V
ZL5710092	4X1	8.7	87.0	129	300/500V
ZL5710093	5G1	9.5	90.0	152	300/500V
ZL5710094	7G1	10.2	110.0	184	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5710095	12G1	13.3	194.0	306	300/500V
ZL5710096	18G1	15.5	267.0	417	300/500V
ZL5710097	25G1	17.5	379.0	541	300/500V
ZL5710098	34G1	20.3	516.0	735	300/500V
ZL5710099	41G1	22.0	610.0	860	300/500V
ZL5710100	2X1.5	8.5	77.0	116	300/500V
ZL5710101	3G1.5	8.9	85.0	135	300/500V
ZL5710102	3X1.5	8.9	85.0	135	300/500V
ZL5710103	4G1.5	9.6	100.0	162	300/500V
ZL5710104	4X1.5	9.6	100.0	162	300/500V
ZL5710105	5G1.5	10.3	120.0	187	300/500V
ZL5710106	5X1.5	10.3	120.0	187	300/500V
ZL5710107	7G1.5	11.3	152.0	236	300/500V
ZL5710108	7X1.5	11.3	152.0	236	300/500V
ZL5710109	12G1.5	14.8	267.0	392	300/500V
ZL5710110	18G1.5	17.2	400.0	536	300/500V
ZL5710111	25G1.5	20.1	572.0	742	300/500V
ZL5710112	34G1.5	21.9	754.0	960	300/500V
ZL5710113	41G1.5	24.7	874.0	1118	300/500V
ZL5710114	3G2.5	10.3	121.0	191	300/500V
ZL5710115	4G2.5	11.3	163.0	232	300/500V
ZL5710116	5G2.5	12.6	199.0	282	300/500V
ZL5710117	7G2.5	13.9	261.0	370	300/500V
ZL5710118	12G2.5	17.2	470.0	580	300/500V
ZL5710119	4G4	13.4	238.0	345	300/500V
ZL5710120	5G4	14.7	279.0	412	300/500V
ZL5710121	4G6	15.8	318.0	483	300/500V
ZL5710122	5G6	17.3	370.0	576	300/500V
ZL5710123	4G10	19.0	558.0	733	300/500V
ZL5710124	4G16	22.2	804.0	1340	300/500V

LONGFLEX™

LONGFLEX™ MC 712 CP



ZHAOLONG LONGFLEX™ MC 712 CP 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system. Suitable for greasy and wet environment . It is suitable for fixed applications or non-sustained shuttle bending movement, also can be used in outdoor.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Fixed Application
 - core/core: 4000V
 - core/shield: 2000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - see the table below
- Minimum Bending Radius
 - Fixed Application :
 - 6D (D=cable diameter)
 - Occasional Movement :
 - 20D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Insulation : PVC
- Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Shield : Tinned copper braiding
- Jacket : PUR Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Have small bending radius and good property of flexibility
- Extremely oil resistance
- Abrasion resistance and anti-hydrolysis
- Good performance of resistant to external EMI
- No inner jacket , Smaller outer diameter , Reduce cabling space

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5712001	2X0.5	5.8	36.0	45	300/500V
ZL5712002	3G0.5	6.1	43.0	59	300/500V
ZL5712003	3X0.5	6.1	43.0	59	300/500V
ZL5712004	4G0.5	6.5	49.0	83	300/500V
ZL5712005	4X0.5	6.5	49.0	83	300/500V
ZL5712006	5G0.5	7.0	57.0	96	300/500V
ZL5712007	5X0.5	7.0	57.0	96	300/500V
ZL5712008	7G0.5	7.5	69.0	136	300/500V
ZL5712009	7X0.5	7.5	69.0	136	300/500V
ZL5712010	12G0.5	9.9	104.0	200	300/500V
ZL5712011	12X0.5	9.9	104.0	200	300/500V
ZL5712012	18G0.5	11.5	141.0	275	300/500V
ZL5712013	18X0.5	11.5	141.0	275	300/500V
ZL5712014	25G0.5	13.4	211.0	350	300/500V
ZL5712015	25X0.5	13.4	211.0	350	300/500V
ZL5712016	2X0.75	6.2	43.0	56	300/500V
ZL5712017	3G0.75	6.5	52.0	70	300/500V
ZL5712018	3X0.75	6.5	52.0	70	300/500V
ZL5712019	4G0.75	7.0	61.0	95	300/500V
ZL5712020	4X0.75	7.0	61.0	95	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5712021	5G0.75	7.7	72.0	130	300/500V
ZL5712022	5X0.75	7.7	72.0	130	300/500V
ZL5712023	7G0.75	8.3	89.0	168	300/500V
ZL5712024	7X0.75	8.3	89.0	168	300/500V
ZL5712025	12G0.75	10.9	138.0	232	300/500V
ZL5712026	18G0.75	12.7	211.0	315	300/500V
ZL5712027	25G0.75	14.8	280.0	435	300/500V
ZL5712028	25X0.75	14.8	280.0	435	300/500V
ZL5712029	2X1	6.5	51.0	84	300/500V
ZL5712030	3G1	6.8	62.0	110	300/500V
ZL5712031	3X1	6.8	62.0	110	300/500V
ZL5712032	4G1	7.3	74.0	130	300/500V
ZL5712033	4X1	7.3	74.0	130	300/500V
ZL5712034	5G1	8.1	88.0	156	300/500V
ZL5712035	5X1	8.1	88.0	156	300/500V
ZL5712036	7G1	8.8	112.0	192	300/500V
ZL5712037	7X1	8.8	112.0	192	300/500V
ZL5712038	12G1	11.5	185.0	285	300/500V
ZL5712039	18G1	13.9	268.0	395	300/500V
ZL5712040	25G1	15.9	354.0	656	300/500V
ZL5712041	2X1.5	7.1	65.0	97	300/500V
ZL5712042	3G1.5	7.5	82.0	125	300/500V
ZL5712043	3X1.5	7.5	82.0	125	300/500V
ZL5712044	4G1.5	8.2	100.0	165	300/500V
ZL5712045	4X1.5	8.2	100.0	165	300/500V
ZL5712046	5G1.5	8.9	119.0	193	300/500V
ZL5712047	5X1.5	8.9	119.0	193	300/500V
ZL5712048	7G1.5	9.9	154.0	245	300/500V
ZL5712049	7X1.5	9.9	154.0	245	300/500V
ZL5712050	12G1.5	13.0	268.0	365	300/500V
ZL5712051	18G1.5	15.6	373.0	553	300/500V
ZL5712052	25G1.5	17.9	530.0	734	300/500V
ZL5712053	34G1.5	20.8	683.0	944	300/500V
ZL5712054	3G2.5	8.9	118.0	188	300/500V
ZL5712055	4G2.5	9.9	147.0	236	300/500V
ZL5712056	5G2.5	11.0	176.0	270	300/500V
ZL5712057	7G2.5	11.9	253.0	340	300/500V
ZL5712058	12G2.5	16.0	355.0	589	300/500V
ZL5712059	18G2.5	19.0	569.0	978	300/500V
ZL5712060	25G2.5	22.2	827.0	1358	300/500V
ZL5712061	4G4	11.6	248.0	305	300/500V
ZL5712062	7G4	14.4	355.0	500	300/500V
ZL5712063	4G6	14.2	343.0	440	300/500V
ZL5712064	7G6	17.0	505.0	672	300/500V
ZL5712065	4G10	17.2	535.0	710	300/500V
ZL5712066	4G16	20.2	800.0	1050	300/500V
ZL5712067	4G25	25.1	1075.0	1570	300/500V
ZL5712068	4G35	28.0	1576.0	2070	300/500V

LONGFLEX™

LONGFLEX™ MC 817 P



ZHAOLONG LONGFLEX™ MC 817 P 2X0.75mm² 90°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system. Suitable for greasy and wet environment . It is suitable for fixed applications or non-sustained shuttle bending movement, also can be used in outdoor of low temperature.



Technical Data

- Temperature Range
 - Fixed Application : -50°C ~90°C
 - Occasional Movement : -40°C ~80°C
- Test Voltage
 - 3000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - see the table below
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Occasional Movement :
 - 12.5D (D=cable diameter)

Cable Construction

- Conductor : Fine stranded tinned bare copper, according to IEC 60228/VDE 0295 class 5
- Insulation : TPE
- Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Jacket : PUR
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Have small bending radius and good property of flexibility
- Extremely oil resistance
- Abrasion resistance and anti-hydrolysis
- Halogen free

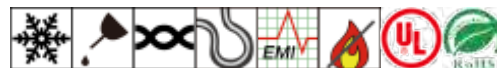
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5817001	2X0.5	5.8	10.0	39	300/500V
ZL5817002	3G0.5	6.1	14.0	46	300/500V
ZL5817003	4G0.5	6.6	19.0	53	300/500V
ZL5817004	5G0.5	7.3	24.0	65	300/500V
ZL5817005	7G0.5	8.8	34.0	92	300/500V
ZL5817006	12G0.5	10.9	58.0	149	300/500V
ZL5817007	18G0.5	12.9	86.0	207	300/500V
ZL5817008	25G0.5	15.7	120.0	274	300/500V
ZL5817009	2X0.75	6.2	14.0	48	300/500V
ZL5817010	3G0.75	6.5	22.0	53	300/500V
ZL5817011	4G0.75	7.1	29.0	67	300/500V
ZL5817012	5G0.75	8.0	36.0	81	300/500V
ZL5817013	7G0.75	9.7	50.0	119	300/500V
ZL5817014	12G0.75	11.7	86.0	193	300/500V
ZL5817015	18G0.75	14.1	130.0	269	300/500V
ZL5817016	25G0.75	17.1	180.0	378	300/500V
ZL5817017	2X1	6.5	19.0	57	300/500V
ZL5817018	3G1	6.9	29.0	61	300/500V
ZL5817019	4G1	7.7	38.0	82	300/500V
ZL5817020	5G1	8.4	48.0	107	300/500V
ZL5817021	7G1	10.2	67.0	138	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5817022	12G1	12.6	115.0	215	300/500V
ZL5817023	18G1	14.9	173.0	328	300/500V
ZL5817024	25G1	18.1	240.0	479	300/500V
ZL5817025	34G1	20.6	326.0	616	300/500V
ZL5817026	41G1	22.4	394.0	727	300/500V
ZL5817027	2X1.5	7.1	29.0	73	300/500V
ZL5817028	3G1.5	7.5	43.0	96	300/500V
ZL5817029	4G1.5	8.4	58.0	105	300/500V
ZL5817030	5G1.5	9.4	72.0	133	300/500V
ZL5817031	7G1.5	11.4	101.0	175	300/500V
ZL5817032	12G1.5	14.0	173.0	309	300/500V
ZL5817033	18G1.5	16.6	259.0	458	300/500V
ZL5817034	25G1.5	20.1	360.0	635	300/500V
ZL5817035	41G1.5	25.1	590.0	1003	300/500V
ZL5817036	3G2.5	9.2	72.0	142	300/500V
ZL5817037	4G2.5	10.0	96.0	184	300/500V
ZL5817038	5G2.5	11.2	120.0	220	300/500V
ZL5817039	7G2.5	13.8	168.0	294	300/500V
ZL5817040	12G2.5	16.9	288.0	489	300/500V

LONGFLEX™

LONGFLEX™ MC 817 CP



ZHAOLONG LONGFLEX™ MC 817 CP 2X0.75mm² 90°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning system. Suitable for greasy and wet environment of high electrical interference. It is suitable for fixed applications or non-sustained shuttle bending movement, also can be used in outdoor of low temperature.

Technical Data

- Temperature Range
 - Fixed Application : -50°C ~90°C
 - Occasional Movement : -40°C ~80°C
- Test Voltage
 - 3000V
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - see the table below
- Minimum Bending Radius
 - Fixed Application :
 - 6D (D=cable diameter)
 - Occasional Movement :
 - 15D (D=cable diameter)



Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Inner Jacket : TPE
- Insulation Color :According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Inner Jacket : TPE
- Shielded : Tinned copper braiding
- Outer Jacket : PUR Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Have small bending radius and good property of flexibility
- Extremely oil resistance, Abrasion resistance and anti-hydrolysis
- Halogen free
- Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5817041	3G0.5	8.3	44.0	100	300/500V
ZL5817042	4G0.5	8.8	52.0	120	300/500V
ZL5817043	5G0.5	9.7	61.0	139	300/500V
ZL5817044	7G0.5	11.2	75.0	175	300/500V
ZL5817045	12G0.5	13.7	131.0	276	300/500V
ZL5817046	18G0.5	15.7	168.0	376	300/500V
ZL5817047	25G0.5	18.5	212.0	485	300/500V
ZL5817048	2X0.75	8.4	45.0	104	300/500V
ZL5817049	3G0.75	8.7	52.0	119	300/500V
ZL5817050	4G0.75	9.5	67.0	126	300/500V
ZL5817051	5G0.75	10.2	75.0	165	300/500V
ZL5817052	7G0.75	11.9	96.0	210	300/500V
ZL5817053	12G0.75	14.5	160.0	331	300/500V
ZL5817054	25G0.75	20.3	283.0	596	300/500V
ZL5817055	2X1	8.7	49.0	117	300/500V
ZL5817056	3G1	9.3	60.0	132	300/500V
ZL5817057	4G1	9.9	78.0	163	300/500V
ZL5817058	5G1	10.8	88.0	187	300/500V
ZL5817059	7G1	12.8	115.0	255	300/500V
ZL5817060	12G1	15.4	201.0	419	300/500V

Motion Control Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Rated Voltage
ZL5817061	18G1	17.7	267.0	546	300/500V
ZL5817062	25G1	21.5	351.0	738	300/500V
ZL5817063	34G1	23.8	498.0	972	300/500V
ZL5817064	2X1.5	9.5	68.0	122	300/500V
ZL5817065	3G1.5	9.9	83.0	140	300/500V
ZL5817066	4G1.5	10.8	102.0	170	300/500V
ZL5817067	5G1.5	11.6	119.0	200	300/500V
ZL5817068	7G1.5	14.2	186.0	290	300/500V
ZL5817069	12G1.5	16.8	264.0	423	300/500V
ZL5817070	18G1.5	20.0	379.0	616	300/500V
ZL5817071	25G1.5	23.5	534.0	804	300/500V
ZL5817072	41G1.5	28.9	803.0	1360	300/500V
ZL5817073	3G2.5	11.4	121.0	194	300/500V
ZL5817074	4G2.5	12.6	145.0	307	300/500V
ZL5817075	5G2.5	14.0	205.0	413	300/500V
ZL5817076	7G2.5	16.4	259.0	533	300/500V
ZL5817077	12G2.5	20.1	407.0	795	300/500V

LONGFLEX™ Drag Chain Cables

- High-precision high-bending-strength fine copper, optimized conductor pitch design, reduce the conductor stress, improve the cables' fatigue resistance.
- Special high flexibility insulation and sheath material to ensure the flexibility of the cable.Reducing the cable bending radius, to meet the equipment needs of small space.
- Selection of high-end jacket material effectively solve the friction between the towline and cable resistance;Cables can be used in the oil, solvents, high temperature and other more stringent use of the environment for a long time.
- Meeting UL, CE series of product standards. It can be applied in industrial automation integrated production lines, machinery manufacturing and other automation industry.
- Customized service can be provided according to customer cabling space, mobile performance requirements and so on.
- The product is RoHS compliant and environment friendly.

• Star Product: **LONGFLEX CHAIN 420 P.118**
LONGFLEX CHAIN 420 CY Series P.120

To meet the conventional flexible sports or conventional towline cable applications, towline mobile performance 100-300 million times.

LONGFLEX CHAIN FD 430 P.126
LONGFLEX CHAIN FD 430 CY Series P.128

To meet the high-intensity flexible sports or high-end towline cable applications, towline mobile performance of 300-800 million times.

LONGFLEX CHAIN FD 730 P P.152
LONGFLEX CHAIN FD 730 CP Series P.154

To meet the high-intensity flexible sports or high-end towline applications, towline mobile performance of 300-800 million times. Compared to the 430 series, with better resistance to oil and abrasion resistance.

LONGFLEX CHAIN FD 837 P P.156
LONGFLEX CHAIN FD 837 CP Series P.158

To meet the requirements of ultra-high strength flexible applications, high-end robots, high-end towline, or a very high-demanded cable liability applications. The mobile performance of towline is up to 20 million times. It can replace imported high-end sports cables.



Drag Chain Cables

LONGFLEX™ CHAIN FD 403



ZHAOLONG LONGFLEX™ CHAIN FD 403 1X10mm² 90°C 600/1000V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~70°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 4000V/5min(AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated Voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 3D (D=cable diameter)
 - Moved Application :
 - 7.5D (D=cable diameter)
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
 VDE 0295 class 6
 Insulation : PVC
 Insulation Color : Black
 Jacket : PVC
 Color : Black (similar to RAL 9005)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Good oil resistance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5403001	10	9.0	96.0	176
ZL5403002	16	10.5	153.6	240
ZL5403003	25	11.8	240.0	361
ZL5403004	35	14.2	336.0	482
ZL5403005	50	16.2	480.0	660
ZL5403006	70	18.3	672.0	898
ZL5403007	95	19.8	912.0	1179
ZL5403008	120	23.4	1152.0	1521
ZL5403009	150	25.1	1440.0	1739
ZL5403010	185	28.1	1776.0	2305
ZL5403011	240	31.6	2304.0	2944

LONGFLEX™

LONGFLEX™ CHAIN 420



ZHAOLONG LONGFLEX™ CHAIN 420 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~70°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Moved Application :
 - 10D (D=cable diameter)
- Application of drag chain
 - 1 ~ 3 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 5
Insulation : PVC
Insulation Color : According to DIN VDE 0293; black core wires
print with white numerical no.; yellow and green wires are
optional wires
Jacket : PVC
Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
Good property of flexibility
Small bending radius
Conditional oil resistance

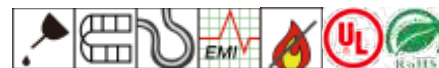
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5420001	2X0.5	5.2	10.0	40
ZL5420002	3G0.5	5.5	15.0	48
ZL5420003	4G0.5	6.0	20.0	58
ZL5420004	5G0.5	6.5	24.0	67
ZL5420005	7G0.5	7.7	34.0	88
ZL5420006	12G0.5	9.2	58.0	136
ZL5420007	18G0.5	11.0	87.0	195
ZL5420008	25G0.5	13.3	120.0	274
ZL5420009	2X0.75	5.6	15.0	49
ZL5420010	3G0.75	6.0	22.0	60
ZL5420011	4G0.75	6.5	29.0	73
ZL5420012	5G0.75	7.1	37.0	86
ZL5420013	7G0.75	8.5	51.0	117
ZL5420014	12G0.75	10.3	87.0	181
ZL5420015	18G0.75	12.2	130.0	259
ZL5420016	25G0.75	14.8	181.0	363
ZL5420017	2X1	5.9	19.0	58
ZL5420018	3G1	6.3	29.0	72
ZL5420019	4G1	6.9	39.0	88
ZL5420020	5G1	7.5	48.0	104

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5420021	7G1	9.0	67.0	142
ZL5420022	12G1	10.9	115.0	221
ZL5420023	18G1	13.2	173.0	324
ZL5420024	25G1	15.7	240.0	445
ZL5420025	2X1.5	6.5	29.0	74
ZL5420026	3G1.5	6.9	43.2	93
ZL5420027	4G1.5	7.6	58.0	114
ZL5420028	5G1.5	8.5	72.0	139
ZL5420029	7G1.5	10.3	101.0	189
ZL5420030	12G1.5	12.3	173.0	295
ZL5420031	18G1.5	14.9	259.0	429
ZL5420032	25G1.5	17.9	360.0	597
ZL5420033	3G2.5	8.4	72.0	145
ZL5420034	4G2.5	9.3	96.0	179
ZL5420035	7G2.5	12.7	168.0	218
ZL5420036	4G4	11.1	160.0	266

LONGFLEX™

LONGFLEX™ CHAIN 420 CY



ZHAOLONG LONGFLEX™ CHAIN 420 CY 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~70°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Moved Application:
 - 10D (D=cable diameter)
- Application of drag chain
 - 1 ~ 3 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
 Insulation : PVC
 Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
 Shield : Tinned copper braiding
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Conditional oil resistance
 Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5420037	2X0.5	6.9	33.0	74
ZL5420038	3G0.5	7.3	39.0	84
ZL5420039	4G0.5	7.9	46.0	98
ZL5420040	5G0.5	8.4	54.0	110
ZL5420041	7G0.5	9.8	70.0	143
ZL5420042	12G0.5	11.3	100.0	201
ZL5420043	18G0.5	13.4	153.0	287
ZL5420044	25G0.5	15.9	202.0	394
ZL5420045	30G0.5	16.5	228.0	432
ZL5420046	2X0.75	7.3	39.0	85
ZL5420047	3G0.75	7.8	48.0	99
ZL5420048	4G0.75	8.4	59.0	116
ZL5420049	5G0.75	9.0	69.0	133
ZL5420050	7G0.75	10.7	90.0	178
ZL5420051	12G0.75	12.4	129.0	253
ZL5420052	18G0.75	14.9	205.0	368
ZL5420053	25G0.75	17.4	271.0	496
ZL5420054	30G0.75	18.0	320.0	549
ZL5420055	2X1	7.7	46.0	97

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5420056	3G1	8.2	57.0	114
ZL5420057	4G1	8.9	70.0	134
ZL5420058	5G1	9.8	81.0	159
ZL5420059	7G1	11.4	110.0	207
ZL5420060	12G1	13.4	182.0	314
ZL5420061	18G1	16.1	254.0	443
ZL5420062	25G1	18.8	365.0	612
ZL5420063	26G1	18.8	374.0	625
ZL5420064	34G1	21.5	463.0	787
ZL5420065	41G1	23.2	542.0	918
ZL5420066	50G1	25.3	640.0	1120
ZL5420067	2X1.5	8.4	58.0	117
ZL5420068	3G1.5	9.0	75.0	139
ZL5420069	4G1.5	9.9	91.0	169
ZL5420070	5G1.5	10.9	112.0	201
ZL5420071	7G1.5	12.7	145.0	262
ZL5420072	12G1.5	15.1	247.0	404
ZL5420073	16G1.5	16.8	314.0	503
ZL5420074	18G1.5	17.8	348.0	560
ZL5420075	25G1.5	21.2	498.0	793
ZL5420076	34G1.5	23.9	700.0	1005
ZL5420077	3G2.5	10.8	119.0	207
ZL5420078	4G2.5	11.8	161.0	247
ZL5420079	5G2.5	13.2	194.0	307
ZL5420080	7G2.5	15.8	262.0	418
ZL5420081	4G4	13.7	238.0	360
ZL5420082	5G4	15.3	280.0	436
ZL5420083	4G6	16.1	318.0	514
ZL5420084	4G10	20.2	521.0	824
ZL5420085	4G16	23.6	780.0	1207

LONGFLEX™

LONGFLEX™ CHAIN 421



ZHAOLONG LONGFLEX™ CHAIN 421 2X0.25mm² E324007 IAWM 2464 80°C 300V VW-1 c IAWM I/II A/B 80°C 300V FT1 ****m YY/MM/DD

Application

Can be used as signal control cables in CNC machine tools, engraving machines, woodworking machinery and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature range
 - Fixed Application : -40°C ~80°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application : 4D (D=cable diameter)
 - Moved Application : 10D (D=cable diameter)
- Technical Certification
 - UL 2464
- Application of drag chain
 - 1 ~ 3 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 5
Insulation : PVC
Insulation Color : According to DIN 47100
Jacket : PVC
Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
Good property of flexibility
Small bending radius
Good oil resistance

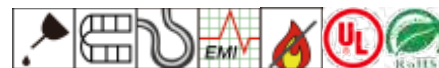
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5421001	2 X 0.25	4.2	4.6	23
ZL5421002	3 X 0.25	4.4	6.9	28
ZL5421003	4 X 0.25	4.7	9.3	33
ZL5421004	6 X 0.25	5.5	13.9	44
ZL5421005	8 X 0.25	6.2	18.5	55
ZL5421006	10 X 0.25	6.7	23.1	64
ZL5421007	12 X 0.25	6.9	27.8	73
ZL5421008	14 X 0.25	7.2	32.4	82
ZL5421009	18 X 0.25	8.0	41.6	100
ZL5421010	20 X 0.25	8.3	46.3	109
ZL5421011	24 X 0.25	9.5	55.5	134
ZL5421012	30 X 0.25	10.0	69.4	160
ZL5421013	40 X 0.25	11.1	92.5	203
ZL5421014	2 X 0.34	4.4	6.3	27
ZL5421015	3 X 0.34	4.6	9.4	34
ZL5421016	4 X 0.34	5.0	12.6	39
ZL5421017	6 X 0.34	5.8	18.8	53
ZL5421018	8 X 0.34	6.6	25.1	65
ZL5421019	10 X 0.34	7.1	31.4	77
ZL5421020	12 X 0.34	7.3	37.7	88

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5421021	14 X 0.34	7.7	44.0	99
ZL5421022	18 X 0.34	8.5	56.5	121
ZL5421023	20 X 0.34	8.9	62.8	133
ZL5421024	24 X 0.34	10.1	75.3	162
ZL5421025	30 X 0.34	10.7	94.2	194
ZL5421026	40 X 0.34	11.9	125.6	248
ZL5421027	2 X 0.50	5.0	9.5	34
ZL5421028	3 X 0.50	5.2	14.3	43
ZL5421029	4 X 0.50	5.6	19.0	52
ZL5421030	6 X 0.50	6.6	28.6	71
ZL5421031	8 X 0.50	7.6	38.1	88
ZL5421032	10 X 0.50	8.2	47.6	105
ZL5421033	12 X 0.50	8.5	57.1	121
ZL5421034	14 X 0.50	8.9	66.6	137
ZL5421035	18 X 0.50	9.9	85.7	169
ZL5421036	20 X 0.50	10.4	95.2	186
ZL5421037	24 X 0.50	11.8	114.2	227
ZL5421038	30 X 0.50	12.4	142.8	273
ZL5421039	40 X 0.50	13.9	190.4	352
ZL5421040	2 X 0.75	5.4	14.3	42
ZL5421041	3 X 0.75	5.7	21.4	55
ZL5421042	4 X 0.75	6.2	28.6	66
ZL5421043	6 X 0.75	7.3	42.8	91
ZL5421044	10 X 0.75	9.1	71.4	138
ZL5421045	12 X 0.75	9.4	85.7	160
ZL5421046	20 X 0.75	11.8	142.8	258
ZL5421047	24 X 0.75	13.1	171.3	302
ZL5421048	30 X 0.75	13.9	214.1	367
ZL5421049	2 X 1.0	5.9	18.8	51
ZL5421050	3 X 1.0	6.3	28.2	67
ZL5421051	4 X 1.0	6.8	37.6	82
ZL5421052	6 X 1.0	8.0	56.4	114
ZL5421053	10 X 1.0	10.4	94.0	181
ZL5421054	12 X 1.0	10.8	112.8	211
ZL5421055	20 X 1.0	13.2	188.0	328
ZL5421056	24 X 1.0	15.1	225.6	400
ZL5421057	30 X 1.0	15.9	282.0	485
ZL5421058	2 X 1.5	6.7	27.5	67
ZL5421059	3 X 1.5	7.1	41.3	88
ZL5421060	4 X 1.5	7.7	55.1	113
ZL5421061	6 X 1.5	9.5	82.6	162
ZL5421062	10 X 1.5	12.0	137.7	248
ZL5421063	12 X 1.5	12.8	165.2	300
ZL5421064	20 X 1.5	15.7	275.4	467
ZL5421065	24 X 1.5	17.4	330.5	551
ZL5421066	30 X 1.5	18.4	413.1	672

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LONGFLEX™ CHAIN 421 CY



ZHAOLONG LONGFLEX™ CHAIN 421 CY 2X0.25mm² E324007 IAWM 2464 80°C 300V VW-1 c IAWM I/II A/B 80°C 300V FT1 ****m YY/MM/DD

Application

Can be used as signal control cables in CNC machine tools, engraving machines, woodworking machinery and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application : 4D (D=cable diameter)
 - Moved Application : 10D (D=cable diameter)
- Technical Certification
 - UL 2464
- Application of drag chain
 - 1 ~ 3 million times

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Insulation : PVC
- Insulation Color : According to DIN 47100
- Shielded : Tinned copper braiding
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- Good oil resistance
- Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5421067	2 X 0.25	4.7	14.0	33
ZL5421068	3 X 0.25	4.9	17.0	39
ZL5421069	4 X 0.25	5.2	20.5	45
ZL5421070	6 X 0.25	6.0	27.9	59
ZL5421071	8 X 0.25	6.7	35.4	72
ZL5421072	10 X 0.25	7.2	41.8	83
ZL5421073	12 X 0.25	7.4	47.2	93
ZL5421074	14 X 0.25	7.7	53.0	103
ZL5421075	18 X 0.25	8.5	65.0	123
ZL5421076	20 X 0.25	8.9	71.1	135
ZL5421077	24 X 0.25	10.0	83.6	163
ZL5421078	30 X 0.25	10.7	109.3	201
ZL5421079	40 X 0.25	11.8	138.0	250
ZL5421080	2 X 0.34	4.9	16.4	37
ZL5421081	3 X 0.34	5.1	20.3	45
ZL5421082	4 X 0.34	5.5	24.7	52
ZL5421083	6 X 0.34	6.3	34.0	68
ZL5421084	8 X 0.34	7.1	43.4	84
ZL5421085	10 X 0.34	7.6	51.6	97
ZL5421086	12 X 0.34	7.8	58.7	110

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5421087	14 X 0.34	8.2	66.2	121
ZL5421088	18 X 0.34	9.0	81.7	146
ZL5421089	20 X 0.34	9.4	89.6	161
ZL5421090	24 X 0.34	10.8	115.7	204
ZL5421091	30 X 0.34	11.3	137.3	238
ZL5421092	40 X 0.34	12.6	174.7	298
ZL5421093	2 X 0.50	5.5	21.7	46
ZL5421094	3 X 0.50	5.7	27.4	57
ZL5421095	4 X 0.50	6.1	33.7	67
ZL5421096	6 X 0.50	7.1	46.8	89
ZL5421097	8 X 0.50	8.1	60.1	110
ZL5421098	10 X 0.50	8.7	72.0	130
ZL5421099	12 X 0.50	9.0	82.4	147
ZL5421100	14 X 0.50	9.4	93.5	164
ZL5421101	18 X 0.50	10.5	126.2	210
ZL5421102	20 X 0.50	11.0	138.3	230
ZL5421103	24 X 0.50	12.5	162.9	276
ZL5421104	30 X 0.50	13.1	194.8	326
ZL5421105	40 X 0.50	14.6	249.7	412
ZL5421106	2 X 0.75	5.9	28.1	56
ZL5421107	3 X 0.75	6.2	36.3	70
ZL5421108	4 X 0.75	6.7	45.2	83
ZL5421109	6 X 0.75	7.8	63.6	112
ZL5421110	10 X 0.75	9.6	99.0	166
ZL5421111	12 X 0.75	9.9	114.4	189
ZL5421112	20 X 0.75	12.5	191.7	307
ZL5421113	24 X 0.75	13.8	226.6	359
ZL5421114	30 X 0.75	14.5	273.2	427
ZL5421115	2 X 1.0	6.4	34.6	67
ZL5421116	3 X 1.0	6.8	45.2	85
ZL5421117	4 X 1.0	7.3	56.6	101
ZL5421118	6 X 1.0	8.5	80.1	138
ZL5421119	10 X 1.0	11.1	136.0	224
ZL5421120	12 X 1.0	11.5	156.5	256
ZL5421121	20 X 1.0	13.9	243.8	385
ZL5421122	24 X 1.0	15.7	288.6	465
ZL5421123	30 X 1.0	16.6	349.3	553
ZL5421124	2 X 1.5	7.2	46.2	86
ZL5421125	3 X 1.5	7.6	61.5	109
ZL5421126	4 X 1.5	8.2	77.6	136
ZL5421127	6 X 1.5	10.0	110.6	191
ZL5421128	10 X 1.5	12.7	187.5	298
ZL5421129	12 X 1.5	13.5	217.0	353
ZL5421130	20 X 1.5	16.4	341.5	535
ZL5421131	24 X 1.5	18.1	405.2	627
ZL5421132	30 X 1.5	19.1	492.9	753

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LONGFLEX™ CHAIN FD 430



ZHAOLONG LONGFLEX™ CHAIN FD 430 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~70°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Moved Application :
 - 7.5D (D=cable diameter)
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
 Insulation : PVC
 Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Conditional oil resistance

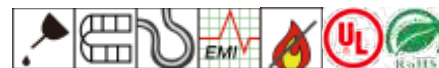
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5430001	2X0.5	5.3	10.0	40
ZL5430002	3G0.5	5.7	15.0	48
ZL5430003	4G0.5	6.3	19.2	58
ZL5430004	5G0.5	6.8	24.0	67
ZL5430005	7G0.5	8.0	34.0	88
ZL5430006	12G0.5	9.5	58.0	136
ZL5430007	18G0.5	11.4	86.4	195
ZL5430008	25G0.5	13.7	120.0	274
ZL5430009	30G0.5	14.3	144.0	312
ZL5430010	34G0.5	15.6	164.0	359
ZL5430011	50G0.5	18.5	240.0	515
ZL5430012	2X0.75	5.7	15.0	49
ZL5430013	3G0.75	6.2	22.0	60
ZL5430014	4G0.75	6.8	29.0	73
ZL5430015	5G0.75	7.4	37.0	86
ZL5430016	7G0.75	8.9	51.0	117
ZL5430017	12G0.75	10.6	87.0	181
ZL5430018	16G0.75	12.0	116.0	234
ZL5430019	18G0.75	12.7	130.0	259
ZL5430020	25G0.75	15.2	181.0	363

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5430021	2X1	6.1	19.0	58
ZL5430022	3G1	6.6	29.0	72
ZL5430023	4G1	7.3	39.0	88
ZL5430024	5G1	8.0	48.0	104
ZL5430025	7G1	9.6	67.0	142
ZL5430026	12G1	11.4	115.0	221
ZL5430027	14G1	12.3	134.4	258
ZL5430028	16G1	13.0	153.0	287
ZL5430029	18G1	13.9	173.0	324
ZL5430030	25G1	16.4	240.0	445
ZL5430031	26G1	16.4	249.6	459
ZL5430032	34G1	18.9	326.4	595
ZL5430033	41G1	20.6	394.0	712
ZL5430034	50G1	22.3	480.0	854
ZL5430035	2X1.5	6.8	29.0	74
ZL5430036	3G1.5	7.4	43.2	93
ZL5430037	4G1.5	8.1	58.0	114
ZL5430038	5G1.5	9.1	72.0	139
ZL5430039	7G1.5	10.9	101.0	189
ZL5430040	12G1.5	12.9	173.0	295
ZL5430041	18G1.5	15.6	259.0	429
ZL5430042	25G1.5	18.6	360.0	597
ZL5430043	26G1.5	18.6	374.4	615
ZL5430044	34G1.5	21.1	489.6	783
ZL5430045	41G1.5	23.0	613.0	936
ZL5430046	42G1.5	23.0	629.0	954
ZL5430047	50G1.5	25.0	720.0	1134
ZL5430048	3G2.5	9.0	72.0	145
ZL5430049	4G2.5	10.0	96.0	179
ZL5430050	5G2.5	11.2	120.0	218
ZL5430051	7G2.5	13.6	168.0	303
ZL5430052	12G2.5	16.0	288.0	473
ZL5430053	14G2.5	17.2	336.0	548
ZL5430054	3G4	10.6	120.0	214
ZL5430055	4G4	11.7	160.0	266
ZL5430056	5G4	13.1	200.0	325
ZL5430057	4G6	13.9	230.4	396
ZL5430058	5G6	15.5	288.0	484
ZL5430059	4G10	17.6	384.0	644
ZL5430060	5G10	19.6	480.0	785
ZL5430061	4G16	21.0	615.0	922
ZL5430062	5G16	23.6	768.0	1133

LONGFLEX™

LONGFLEX™ CHAIN FD 430 CY



ZHAOLONG LONGFLEX™ CHAIN FD 430 CY 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~70°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Moved Application :
 - 7.5D (D=cable diameter)
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
- Insulation : PVC
- Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Inner jacket : PVC
- Shield : Tinned copper braiding
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- Conditional oil resistance
- Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5430063	2X0.5	6.9	33.0	74
ZL5430064	3G0.5	7.3	39.0	84
ZL5430065	4G0.5	7.9	46.0	98
ZL5430066	5G0.5	8.4	54.0	110
ZL5430067	7G0.5	9.8	70.0	143
ZL5430068	12G0.5	11.3	100.0	201
ZL5430069	18G0.5	13.4	153.0	287
ZL5430070	25G0.5	15.9	202.0	394
ZL5430071	30G0.5	16.5	228.0	432
ZL5430072	2X0.75	7.3	39.0	85
ZL5430073	3G0.75	7.8	48.0	99
ZL5430074	4G0.75	8.4	59.0	116
ZL5430075	5G0.75	9.0	69.0	133
ZL5430076	7G0.75	10.7	90.0	178
ZL5430077	12G0.75	12.4	129.0	253
ZL5430078	18G0.75	14.9	205.0	368
ZL5430079	25G0.75	17.4	271.0	496
ZL5430080	30G0.75	18.0	320.0	549
ZL5430081	2X1	7.7	46.0	97

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5430082	3G1	8.2	57.0	114
ZL5430083	4G1	8.9	70.0	134
ZL5430084	5G1	9.8	81.0	159
ZL5430085	7G1	11.4	110.0	207
ZL5430086	12G1	13.4	182.0	314
ZL5430087	18G1	16.1	254.0	443
ZL5430088	25G1	18.8	365.0	612
ZL5430089	26G1	18.8	374.0	625
ZL5430090	34G1	21.5	463.0	787
ZL5430091	41G1	23.2	542.0	918
ZL5430092	50G1	25.3	640.0	1120
ZL5430093	2X1.5	8.4	58.0	117
ZL5430094	3G1.5	9.0	75.0	139
ZL5430095	4G1.5	9.9	91.0	169
ZL5430096	5G1.5	10.9	112.0	201
ZL5430097	7G1.5	12.7	145.0	262
ZL5430098	12G1.5	15.1	247.0	404
ZL5430099	16G1.5	16.8	314.0	503
ZL5430100	18G1.5	17.8	348.0	560
ZL5430101	25G1.5	21.2	498.0	793
ZL5430102	34G1.5	23.9	700.0	1005
ZL5430103	3G2.5	10.8	119.0	207
ZL5430104	4G2.5	11.8	161.0	247
ZL5430105	5G2.5	13.2	194.0	307
ZL5430106	7G2.5	15.8	262.0	418
ZL5430107	4G4	13.7	238.0	360
ZL5430108	5G4	15.3	280.0	436
ZL5430109	4G6	16.1	318.0	514
ZL5430110	4G10	20.2	521.0	824
ZL5430111	4G16	23.6	780.0	1207

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LONGFLEX™ CHAIN FD 430 TP



ZHAOLONG LONGFLEX™ CHAIN FD 430 TP 2X2X0.14mm² E324007 IAWM 2464 80 C 300V VW-1 c IAWM I/II A/B 80 C 300V FT1 ****m YY/MM/DD

Application

Can be used as signal control cables in low voltage control system of CNC machine tools, engraving machines, woodworking machinery and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Moved Application :
 - 7.5D (D=cable diameter)
- Technical certification : UL 2464
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 6
Insulation : PVC
Insulation Color : According to DIN 47100
Jacket : PVC
Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
Good property of flexibility
Small bending radius
Good oil resistance

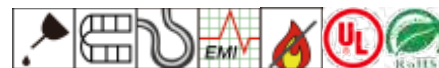
Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5430501	1X2X0.14	4.0	3.0	19
ZL5430502	2X2X0.14	4.4	5.9	27
ZL5430503	3X2X0.14	5.6	8.9	37
ZL5430504	4X2X0.14	6.0	11.8	43
ZL5430505	5X2X0.14	6.5	14.8	50
ZL5430506	6X2X0.14	7.4	17.8	64
ZL5430507	8X2X0.14	8.6	23.7	80
ZL5430508	10X2X0.14	9.1	29.6	92
ZL5430509	12X2X0.14	9.9	35.5	116
ZL5430510	14X2X0.14	10.4	41.5	129
ZL5430511	20X2X0.14	11.8	59.2	168
ZL5430512	1X2X0.25	4.3	4.9	23
ZL5430513	2X2X0.25	5.6	9.9	36
ZL5430514	3X2X0.25	6.3	14.8	46
ZL5430515	4X2X0.25	7.2	19.7	62
ZL5430516	5X2X0.25	7.5	24.7	71
ZL5430517	6X2X0.25	8.1	29.6	82
ZL5430518	8X2X0.25	9.6	39.5	105

Drag Chain Cables

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5430519	10X2X0.25	11.0	49.4	138
ZL5430520	12X2X0.25	10.9	59.2	151
ZL5430521	14X2X0.25	11.4	69.1	169
ZL5430522	20X2X0.25	13.5	98.7	236
ZL5430523	2X2X0.34	5.7	13.0	44
ZL5430524	3X2X0.34	7.2	19.4	62
ZL5430525	4X2X0.34	7.7	25.9	75
ZL5430526	6X2X0.34	9.0	38.9	101
ZL5430527	8X2X0.34	10.6	51.8	133
ZL5430528	10X2X0.34	12.4	64.8	172
ZL5430529	12X2X0.34	12.6	77.7	200
ZL5430530	20X2X0.34	15.1	129.5	297
ZL5430531	2X2X0.5	6.0	19.7	54
ZL5430532	3X2X0.5	7.8	29.6	77
ZL5430533	4X2X0.5	8.4	39.5	95
ZL5430534	5X2X0.5	9.1	49.4	112
ZL5430535	6X2X0.5	10.1	59.2	134
ZL5430536	8X2X0.5	12.0	79.0	182
ZL5430537	10X2X0.5	14.0	98.7	233
ZL5430538	12X2X0.5	13.7	118.4	257
ZL5430539	14X2X0.5	14.4	138.2	289

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LONGFLEX™ CHAIN FD 430 CY-TP



ZHAOLONG LONGFLEX™ CHAIN FD 430 CY-TP 2X2X0.14mm² E324007 IAWM 2464 80 C 300V VW-1 c IAWM I/II A/B 80 C 300V FT1 ****m YY/MM/DD

Application

Can be used as signal control cables in low voltage control system of CNC machine tools, engraving machines, woodworking machinery and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Moved Application : -5°C ~70°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - 300V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Moved Application :
 - 7.5D (D=cable diameter)
- Technical certification : UL 2464
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
- Insulation : PVC
- Insulation Color : According to DIN 47100
- Shield : Tinned copper braiding
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- Good oil resistance
- Good performance of resistant to external EMI

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5430540	1X2X0.14	4.5	9.0	27
ZL5430541	2X2X0.14	4.9	13.1	36
ZL5430542	3X2X0.14	6.1	19.6	50
ZL5430543	4X2X0.14	6.5	23.9	57
ZL5430544	5X2X0.14	7.4	28.3	72
ZL5430545	6X2X0.14	8.0	35.8	85
ZL5430546	8X2X0.14	9.2	46.1	106
ZL5430547	10X2X0.14	10.6	54.9	137
ZL5430548	12X2X0.14	10.5	60.5	146
ZL5430549	14X2X0.14	10.9	68.0	160
ZL5430550	20X2X0.14	12.8	91.1	216
ZL5430551	1X2X0.25	4.8	11.8	32
ZL5430552	2X2X0.25	5.5	18.3	45
ZL5430553	3X2X0.25	7.0	27.7	65
ZL5430554	4X2X0.25	7.7	34.1	80
ZL5430555	5X2X0.25	8.3	43.8	95
ZL5430556	6X2X0.25	8.9	50.9	108
ZL5430557	8X2X0.25	10.2	65.5	134

Drag Chain Cables

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5430558	10X2X0.25	11.6	78.2	171
ZL5430559	12X2X0.25	11.6	88.1	185
ZL5430560	14X2X0.25	12.0	99.3	204
ZL5430561	20X2X0.25	14.2	147.1	290
ZL5430562	2X2X0.34	6.0	22.8	54
ZL5430563	3X2X0.34	7.9	34.4	81
ZL5430564	4X2X0.34	8.5	45.8	99
ZL5430565	6X2X0.34	9.8	63.4	130
ZL5430566	8X2X0.34	11.6	80.7	176
ZL5430567	10X2X0.34	13.0	98.7	210
ZL5430568	12X2X0.34	12.8	110.9	227
ZL5430569	20X2X0.34	15.9	185.9	359
ZL5430570	2X2X0.5	6.5	30.5	67
ZL5430571	3X2X0.5	8.6	49.8	102
ZL5430572	4X2X0.5	9.3	62.2	122
ZL5430573	5X2X0.5	10.0	74.6	142
ZL5430574	6X2X0.5	11.0	87.4	168
ZL5430575	8X2X0.5	12.6	111.5	219
ZL5430576	10X2X0.5	14.7	149.7	290
ZL5430577	12X2X0.5	14.7	169.4	316
ZL5430578	14X2X0.5	15.5	193.0	354

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LONGFLEX™ CHAIN FD 431



ZHAOLONG LONGFLEX™ CHAIN FD 431 2X26AWG E324007 IAWM 20276 80°C 30V VW-1 c IAWM I/II A/B 80°C 30V FT1 ****m YY/MM/DD

Application

Can be used as signal control cables in low voltage control system of CNC machine tools, engraving machines, woodworking machinery and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Mobile Application : -5°C ~70°C
- Test Voltage
 - 500V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - 30V
- Minimum Bending Radius
 - Fixed Application : 4D (D=cable diameter)
 - Mobile Application : 7.5D (D=cable diameter)
- Technical Certification
 - UL 20276
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 6
Insulation : PVC
Insulation Color : According to DIN 47100
Jacket : PVC
Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
Good property of flexibility
Small bending radius
Good oil resistance

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5431001	2X26AWG	3.6	3.1	18
ZL5431002	3X26AWG	3.8	4.5	21
ZL5431003	4X26AWG	4.0	5.9	23
ZL5431004	10X26AWG	5.4	14.5	41
ZL5431005	20X26AWG	6.6	28.8	69
ZL5431006	30X26AWG	8.0	43.1	100
ZL5431007	2X24AWG	4.0	4.1	22
ZL5431008	3X24AWG	4.1	6.1	23
ZL5431009	4X24AWG	4.4	8.0	28
ZL5431010	10X24AWG	6.2	19.7	53
ZL5431011	20X24AWG	7.6	39.3	91
ZL5431012	30X24AWG	9.3	58.8	133
ZL5431013	2X22AWG	4.3	6.4	26
ZL5431014	3X22AWG	4.5	9.5	29
ZL5431015	4X22AWG	4.8	12.6	35
ZL5431016	10X22AWG	6.8	31.2	72
ZL5431017	20X22AWG	8.4	62.1	122
ZL5431018	30X22AWG	10.4	93.1	182
ZL5431019	2X20AWG	4.7	10.5	32

Drag Chain Cables

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5431020	3X20AWG	4.9	15.6	38
ZL5431021	4X20AWG	5.3	20.8	46
ZL5431022	10X20AWG	8.0	51.6	98
ZL5431023	20X20AWG	9.9	103.1	174
ZL5431024	30X20AWG	12.2	154.5	261

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LONGFLEX™ CHAIN FD 431 TP



ZHAOLONG LONGFLEX™ CHAIN FD 431 TP 2X2X26AWG E324007 IAWM 20276 80°C 30V VW-1 IAWM I/II A/B 80°C 30V FT1 ****m YY/MM/DD

Application

Can be used as signal control cables in low voltage control system of CNC machine tools, engraving machines, woodworking machinery and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Mobile Application : -5°C ~70°C
- Test Voltage
 - 500V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - 30V
- Minimum Bending Radius
 - Fixed Application : 4D (D=cable diameter)
 - Mobile Application : 7.5D (D=cable diameter)
- Technical Certification
 - UL 20276
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 6
Insulation : PVC
Insulation Color : According to DIN 47100
Jacket : PVC
Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
Good property of flexibility
Small bending radius
Good oil resistance

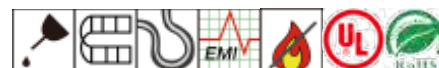
Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5431049	2X2X26AWG	4.5	6.0	25
ZL5431050	3X2X26AWG	5.0	8.8	29
ZL5431051	4X2X26AWG	5.4	11.7	35
ZL5431052	10X2X26AWG	7.7	29.0	71
ZL5431053	20X2X26AWG	9.8	57.7	126
ZL5431054	25X2X26AWG	11.0	72.1	164
ZL5431055	2X2X24AWG	5.0	8.1	32
ZL5431056	3X2X24AWG	5.7	12.0	40
ZL5431057	4X2X24AWG	6.1	15.9	45
ZL5431058	10X2X24AWG	9.0	39.5	95
ZL5431059	20X2X24AWG	11.3	78.9	169
ZL5431060	25X2X24AWG	12.9	98.5	218
ZL5431061	2X2X22AWG	5.5	12.7	42
ZL5431062	3X2X22AWG	6.2	18.9	50
ZL5431063	4X2X22AWG	6.8	25.1	63
ZL5431064	10X2X22AWG	10.1	62.4	129
ZL5431065	20X2X22AWG	12.7	124.7	232
ZL5431066	25X2X22AWG	15.5	155.8	327
ZL5431067	2X2X20AWG	6.1	20.9	55

Drag Chain Cables

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5431068	3X2X20AWG	7.0	31.3	71
ZL5431069	4X2X20AWG	7.6	41.6	86
ZL5431070	10X2X20AWG	11.6	103.8	183
ZL5431071	20X2X20AWG	15.6	207.4	368
ZL5431072	25X2X20AWG	17.6	259.2	460

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LONGFLEX™ CHAIN FD 431 CY



ZHAOLONG LONGFLEX™ CHAIN FD 431 CY 2X26AWG E324007 AWM 20276 80°C 30V VW-1 c AWM I/II A/B 80°C 30V FT1 ****m YY/MM/DD

Application

Can be used as signal control cables in low voltage control system of CNC machine tools, engraving machines, woodworking machinery and other automation equipments production lines in all kinds of machines. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Mobile Application : -5°C ~70°C
- Test Voltage
 - 500V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - 30V
- Minimum Bending Radius
 - Fixed Application : 4D (D=cable diameter)
 - Mobile Application : 7.5D (D=cable diameter)
- Technical Certification
 - UL 20276
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
- Insulation : PVC
- Insulation Color : According to DIN 47100
- Shielded : Tinned copper braiding
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- Good oil resistance
- Good performance of resistant to external EMI

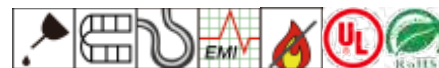
Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5431025	2X26AWG	4.3	9.5	25
ZL5431026	3X26AWG	4.5	11.6	29
ZL5431027	4X26AWG	4.7	13.7	33
ZL5431028	10X26AWG	6.1	26.9	56
ZL5431029	20X26AWG	7.3	45.3	88
ZL5431030	30X26AWG	8.7	64.3	124
ZL5431031	2X24AWG	4.7	11.9	30
ZL5431032	3X24AWG	4.8	14.1	34
ZL5431033	4X24AWG	5.1	17.1	39
ZL5431034	10X24AWG	6.9	34.9	71
ZL5431035	20X24AWG	8.3	59.1	113
ZL5431036	30X24AWG	10.1	88.4	166
ZL5431037	2X22AWG	5.0	15.1	37
ZL5431038	3X22AWG	5.2	18.9	41
ZL5431039	4X22AWG	5.5	23.0	48
ZL5431040	10X22AWG	7.5	48.3	91
ZL5431041	20X22AWG	9.1	84.7	147
ZL5431042	30X22AWG	11.2	127.0	218
ZL5431043	2X20AWG	5.4	20.6	45

Drag Chain Cables

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5431044	3X20AWG	5.6	26.4	51
ZL5431045	4X20AWG	6.0	32.9	61
ZL5431046	10X20AWG	8.3	71.5	120
ZL5431047	20X20AWG	10.3	133.5	207
ZL5431048	30X20AWG	12.7	199.4	309

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LONGFLEX™ CHAIN FD 431 CY-TP



ZHAOLONG LONGFLEX™ CHAIN FD 431 CY-TP 2X2X26AWG E324007 IAWM 20276 80°C 30V VW-1 IAWM I/II A/B 80°C 30V FT1 ****m YY/MM/DD

Application

Can be used as signal control cables in low voltage control system of CNC machine tools, engraving machines, woodworking machinery and other automation equipments production lines in all kinds of machines. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Mobile Application : -5°C ~70°C
- Test Voltage
 - 500V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - 30V
- Minimum Bending Radius
 - Fixed Application : 4D (D=cable diameter)
 - Mobile Application : 7.5D (D=cable diameter)
- Technical Certification
 - UL 20276
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
- Insulation : PVC
- Shielded : Tinned copper braiding
- Insulation Color : According to DIN 47100
- Jacket : PVC
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- Good oil resistance
- Good performance of resistant to external EMI

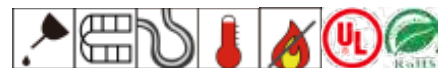
Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5431073	2X2X26AWG	5.1	15.2	36
ZL5431074	3X2X26AWG	5.6	19.7	42
ZL5431075	4X2X26AWG	6.0	24.0	50
ZL5431076	10X2X26AWG	8.3	47.6	92
ZL5431077	20X2X26AWG	10.5	89.0	160
ZL5431078	25X2X26AWG	11.7	108.1	202
ZL5431079	2X2X24AWG	5.6	19.0	45
ZL5431080	3X2X24AWG	6.3	25.3	56
ZL5431081	4X2X24AWG	6.7	30.5	62
ZL5431082	10X2X24AWG	9.7	61.9	120
ZL5431083	20X2X24AWG	12.0	116.0	209
ZL5431084	25X2X24AWG	13.7	148.1	271
ZL5431085	2X2X22AWG	6.1	25.2	57
ZL5431086	3X2X22AWG	6.8	33.8	68
ZL5431087	4X2X22AWG	7.4	42.1	82
ZL5431088	10X2X22AWG	10.8	91.8	161
ZL5431089	20X2X22AWG	13.5	173.4	284
ZL5431090	25X2X22AWG	16.1	212.5	382
ZL5431091	2X2X20AWG	6.7	35.5	73

Drag Chain Cables

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5431092	3X2X20AWG	7.6	48.9	91
ZL5431093	4X2X20AWG	8.2	61.3	108
ZL5431094	10X2X20AWG	12.2	138.3	220
ZL5431095	20X2X20AWG	16.3	264.6	423
ZL5431096	25X2X20AWG	18.3	325.2	524

LONGFLEX™

LONGFLEX™ CHAIN FD 437



ZHAOLONG LONGFLEX™ CHAIN FD 437 2X0.75mm² 90°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~90°C
 - Mobile Application : -5°C ~90°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 4D (D=cable diameter)
 - Mobile Application :
 - 7.5D (D=cable diameter)
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 6
Insulation : PVC
Insulation Color : According to DIN VDE 0293; black core wires
print with white numerical no.; yellow and green wires are
optional wires
Jacket : PVC
Color : Black (similar to RAL 9005)

Properties

Flame resistance according to IEC60332-1
Good property of flexibility
Small bending radius
Good oil resistance
Wider range of operation temperature

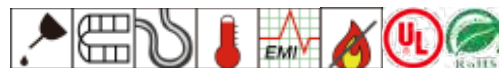
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5437001	2G0.5	10.8	57.6	162
ZL5437002	3G0.75	6.6	21.6	63
ZL5437003	4G0.75	7.3	28.8	75
ZL5437004	5G0.75	8.0	36.0	90
ZL5437005	7G0.75	9.6	50.4	132
ZL5437006	12G0.75	11.6	86.5	201
ZL5437007	18G0.75	13.9	129.6	300
ZL5437008	25G0.75	16.6	180.0	415
ZL5437009	3G1	7.1	28.8	65
ZL5437010	4G1	7.8	39.0	82
ZL5437011	5G1	8.8	48.0	105
ZL5437012	7G1	10.5	67.2	149
ZL5437013	12G1	12.5	116.0	225
ZL5437014	18G1	15.0	173.0	331
ZL5437015	25G1	17.9	240.0	484
ZL5437016	3G1.5	7.7	43.2	93
ZL5437017	4G1.5	8.8	57.6	122
ZL5437018	5G1.5	9.6	72.0	147
ZL5437019	7G1.5	11.6	100.8	219
ZL5437020	12G1.5	13.9	172.8	322

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5437021	18G1.5	16.9	259.2	478
ZL5437022	25G1.5	20.1	360.0	670
ZL5437023	34G1.5	23.6	489.6	897
ZL5437024	3G2.5	8.8	72.0	129
ZL5437025	4G2.5	9.8	96.0	167
ZL5437026	5G2.5	11.0	120.0	212
ZL5437027	7G2.5	13.4	168.0	304
ZL5437028	12G2.5	15.8	288.0	452
ZL5437029	4G4	11.8	153.6	263
ZL5437030	5G4	13.2	192.0	325
ZL5437031	7G4	16.1	268.8	469
ZL5437032	4G6	13.7	230.4	368
ZL5437033	4G10	17.9	384.0	588
ZL5437034	4G16	24.1	614.4	1031
ZL5437035	4G25	27.9	960.0	1530
ZL5437036	4G35	31.1	1344.0	1959

LONGFLEX™

LONGFLEX™ CHAIN FD 437 CY



ZHAOLONG LONGFLEX™ CHAIN FD 437 CY 2X0.75mm² 90°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement.



Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 6
Insulation : PVC
Insulation Color : According to DIN VDE 0293; black core wires
print with white numerical no.; yellow and green wires are
optional wires
Inner Jacket : PVC
Shielded : Tinned copper braiding
Jacket : PVC Color : Black (similar to RAL 9005)

Technical Data

- Temperature Range
Fixed Application : -40°C ~90°C
Mobile Application : -5°C ~90°C
- Test Voltage
4000V/5min (AC)
- Insulation Resistance (20°C)
≥20MΩ.km
- Rated voltage
300/500V
- Minimum Bending Radius
Fixed Application :
4D (D=cable diameter)
Mobile Application :
7.5D (D=cable diameter)
- Application of drag chain
3 ~ 8 million times

Properties

Flame resistance according to IEC60332-1
Good property of flexibility
Small bending radius
Good oil resistance
Wider range of operation temperature
Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5437037	3G0.5	7.9	38.9	89
ZL5437038	4G0.5	8.5	47.3	102
ZL5437039	5G0.5	9.2	55.3	127
ZL5437040	7G0.5	10.9	81.1	177
ZL5437041	12G0.5	12.6	99.9	234
ZL5437042	18G0.5	15.5	160.1	381
ZL5437043	25G0.5	17.7	203.9	472
ZL5437044	3G0.75	8.2	49.2	105
ZL5437045	4G0.75	8.9	59.9	123
ZL5437046	5G0.75	10.0	68.6	155
ZL5437047	7G0.75	11.6	91.7	206
ZL5437048	12G0.75	13.8	152.1	304
ZL5437049	18G0.75	16.3	204.4	425
ZL5437050	3G1	8.7	56.0	124
ZL5437051	4G1	9.8	70.2	155
ZL5437052	5G1	10.6	84.0	182
ZL5437053	7G1	12.3	108.0	237
ZL5437054	12G1	14.7	178.0	352
ZL5437055	18G1	17.3	255.0	497

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5437056	25G1	20.5	352.0	702
ZL5437057	3G1.5	9.7	74.8	152
ZL5437058	4G1.5	10.6	94.2	187
ZL5437059	5G1.5	11.4	101.1	187
ZL5437060	7G1.5	13.8	165.6	320
ZL5437061	12G1.5	16.3	246.5	460
ZL5437062	18G1.5	19.5	374.7	677
ZL5437063	25G1.5	23.6	489.4	926
ZL5437064	3G2.5	10.6	103.9	194
ZL5437065	4G2.5	11.8	161.8	235
ZL5437066	5G2.5	13.0	184.6	306
ZL5437067	7G2.5	15.8	242.1	428
ZL5437068	12G2.5	18.2	403.5	590
ZL5437069	3G4	12.4	157.5	275
ZL5437070	4G4	14.0	218.1	365
ZL5437071	7G4	18.3	373.2	629
ZL5437072	4G6	16.1	304.7	500
ZL5437073	4G16	27.1	803.6	1357
ZL5437074	4G25	31.3	1180.4	1879
ZL5437075	4G35	34.3	1593.7	2360

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LONGFLEX™ CHAIN FD 440



ZHAOLONG LONGFLEX™ CHAIN FD 440 3X0.25mm² E324007 IAWM 2464 80 C 300V VW-1 c IAWM I/II A/B 80 C 300V FTI ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application: -40°C ~80°C
 - Mobile Application: -5°C ~70°C
- Test Voltage
 - 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application:
 - 4D (D=cable diameter)
 - Mobile Application:
 - 7.5D (D=cable diameter)
- Technical certification: UL 2464
- Application of drag chain
 - 5 ~ 10 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
 Insulation : TPE
 Insulation Color : ≤0.34mm² according to DIN 47100
 ≥0.5mm² black cores with white numerals, 3
 芯及以上带黄绿线
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Good oil resistance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5440001	3 X 0.25	4.6	7.2	30
ZL5440002	4 X 0.25	4.9	9.6	35
ZL5440003	6 X 0.25	5.6	14.4	45
ZL5440004	7 X 0.25	5.9	16.8	50
ZL5440005	12 X 0.25	8.0	28.8	85
ZL5440006	20 X 0.25	10.5	47.9	131
ZL5440007	25 X 0.25	11.5	59.9	162
ZL5440008	30 X 0.25	12.5	71.9	187
ZL5440009	2 X 0.34	4.8	6.3	32
ZL5440010	5 X 0.34	5.7	15.7	49
ZL5440011	2 X 0.5	5.3	9.6	41
ZL5440012	3 G 0.5	5.6	14.4	48
ZL5440013	4 G 0.5	5.9	19.2	56
ZL5440014	5 G 0.5	6.4	24.0	65
ZL5440015	7 G 0.5	7.3	33.5	83
ZL5440016	12 G 0.5	10.2	57.5	147
ZL5440017	18 G 0.5	12.1	86.2	200
ZL5440018	25 G 0.5	13.4	119.8	255

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5440019	2 X 0.75	5.9	14.2	53
ZL5440020	3 G 0.75	6.0	21.2	59
ZL5440021	4 G 0.75	6.4	28.3	71
ZL5440022	5 G 0.75	7.0	35.4	82
ZL5440023	7 G 0.75	8.0	49.5	108
ZL5440024	12 G 0.75	11.7	84.9	187
ZL5440025	18 G 0.75	14.0	127.3	260
ZL5440026	25 G 0.75	15.5	176.9	352
ZL5440027	36 G 0.75	19.2	254.7	513
ZL5440028	42 G 0.75	20.8	297.1	590
ZL5440029	2 X 1.0	6.1	18.9	60
ZL5440030	3 G 1.0	6.4	28.3	71
ZL5440031	4 G 1.0	6.9	37.7	85
ZL5440032	5 G 1.0	7.4	47.2	100
ZL5440033	7 G 1.0	8.8	66.0	136
ZL5440034	12 G 1.0	12.7	113.2	227
ZL5440035	18 G 1.0	15.2	169.8	319
ZL5440036	25 G 1.0	17.4	235.8	443
ZL5440037	2 X 1.5	6.8	28.3	80
ZL5440038	3 G 1.5	7.2	42.5	96
ZL5440039	4 G 1.5	7.8	56.6	117
ZL5440040	5 G 1.5	8.5	70.8	138
ZL5440041	7 G 1.5	9.9	99.0	183
ZL5440042	12 G 1.5	14.1	169.8	310
ZL5440043	18 G 1.5	17.8	254.7	466
ZL5440044	25 G 1.5	19.8	353.7	614
ZL5440045	36 G 1.5	24.3	509.4	876
ZL5440046	42 G 1.5	27.4	594.3	1054
ZL5440047	3 G 2.5	8.4	70.8	142
ZL5440048	4 G 2.5	9.4	94.3	179
ZL5440049	7 G 2.5	12.1	165.1	286
ZL5440050	12 G 2.5	17.4	283.0	525
ZL5440051	3 G 4.0	10.0	113.7	212
ZL5440052	4 G 6.0	13.6	228.8	401.9
ZL5440053	5 G 6.0	14.8	286.0	478.7

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LONGFLEX™ CHAIN 720 P



ZHAOLONG LONGFLEX™ CHAIN 720 P 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement in oil environment.



Technical Data

- Temperature Range
 - Fixed Application: -40°C ~80°C
 - Mobile Application: -5°C ~70°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application:
 - 4D (D=cable diameter)
 - Mobile Application:
 - 10D (D=cable diameter)
- Application of drag chain
 - 1 ~ 3 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
 Insulation : PVC
 Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
 Jacket : PUR
 Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility, Small bending radius
 Extremely resistant to oil, abrasion and hydrolysis

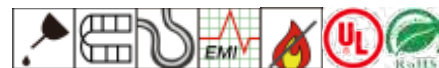
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5720001	2X0.5	5.2	10.0	40
ZL5720002	3G0.5	5.5	15.0	48
ZL5720003	4G0.5	6.0	20.0	58
ZL5720004	5G0.5	6.5	24.0	67
ZL5720005	7G0.5	7.7	34.0	88
ZL5720006	12G0.5	9.2	58.0	136
ZL5720007	18G0.5	11.0	87.0	195
ZL5720008	25G0.5	13.3	120.0	274
ZL5720009	2X0.75	5.6	15.0	49
ZL5720010	3G0.75	6.0	22.0	60
ZL5720011	4G0.75	6.5	29.0	73
ZL5720012	5G0.75	7.1	37.0	86
ZL5720013	7G0.75	8.5	51.0	117
ZL5720014	12G0.75	10.3	87.0	181
ZL5720015	18G0.75	12.2	130.0	259
ZL5720016	25G0.75	14.8	181.0	363
ZL5720017	2X1	5.9	19.0	58
ZL5720018	3G1	6.3	29.0	72

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5720019	4G1	6.9	39.0	88
ZL5720020	5G1	7.5	48.0	104
ZL5720021	7G1	9.0	67.0	142
ZL5720022	12G1	10.9	115.0	221
ZL5720023	18G1	13.2	173.0	324
ZL5720024	25G1	15.7	240.0	445
ZL5720025	2X1.5	6.5	29.0	74
ZL5720026	3G1.5	6.9	43.2	93
ZL5720027	4G1.5	7.6	58.0	114
ZL5720028	5G1.5	8.5	72.0	139
ZL5720029	7G1.5	10.3	101.0	189
ZL5720030	12G1.5	12.3	173.0	295
ZL5720031	18G1.5	14.9	259.0	429
ZL5720032	25G1.5	17.9	360.0	597
ZL5720033	3G2.5	8.4	72.0	145
ZL5720034	4G2.5	9.3	96.0	179
ZL5720035	7G2.5	12.7	168.0	218
ZL5720036	4G4	11.1	160.0	266

LONGFLEX™

LONGFLEX™ CHAIN 720 CP



ZHAOLONG LONGFLEX™ CHAIN 720 CP 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement in oil environment.



Technical Data

- Temperature range
 - Fixed Application : -40°C ~80°C
 - Mobile Application : -5°C ~70°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application :
 - 10D(D=cable diameter)
- Application of drag chain
 - 1 ~ 3 million times

Cable Construction

- Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
- Insulation : PVC
- Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
- Shielded : Tinned copper braiding
- Jacket : PUR
- Color : Grey (similar to RAL 7001)

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility, Small bending radius
- Extremely resistant to oil, abrasion and hydrolysis
- Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5720037	2X0.5	6.9	33.0	80
ZL5720038	3G0.5	7.3	39.0	94
ZL5720039	4G0.5	7.9	46.0	106
ZL5720040	5G0.5	8.4	54.0	138
ZL5720041	7G0.5	9.8	70.0	194
ZL5720042	12G0.5	11.3	100.0	81
ZL5720043	2X0.75	7.3	39.0	95
ZL5720044	3G0.75	7.8	48.0	111
ZL5720045	4G0.75	8.4	59.0	128
ZL5720046	5G0.75	9.0	69.0	171
ZL5720047	7G0.75	10.7	90.0	244
ZL5720048	12G0.75	12.4	129.0	328
ZL5720049	16G0.75	14.2	186.0	356
ZL5720050	18G0.75	14.9	205.0	479
ZL5720051	25G0.75	17.4	271.0	93
ZL5720052	2X1	7.7	46.0	109
ZL5720053	3G1	8.2	57.0	129
ZL5720054	4G1	8.9	70.0	154
ZL5720055	5G1	9.8	81.0	200

LONGFLEX™ Ethernet Cables
 Bus Cables
 Low-Frequency Data Cables
 Sensor Cables
 LONGFLEX™ Motion Control Cables
 Towline Cables
 Servo Cables
 Robot Cables
 High-temperature Cables
 Electrical Installation Cables
 Medical Cables
 Connection Technology
 Technical Data

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5720056	7G1	11.4	110.0	304
ZL5720057	12G1	13.4	182.0	429
ZL5720058	18G1	16.1	254.0	593
ZL5720059	25G1	18.8	365.0	112
ZL5720060	2X1.5	8.4	58.0	133
ZL5720061	3G1.5	9.0	75.0	163
ZL5720062	4G1.5	9.9	91.0	193
ZL5720063	5G1.5	10.9	112.0	252
ZL5720064	7G1.5	12.7	145.0	391
ZL5720065	12G1.5	15.1	247.0	542
ZL5720066	18G1.5	17.8	348.0	767
ZL5720067	25G1.5	21.2	498.0	199
ZL5720068	3G2.5	10.8	119.0	238
ZL5720069	4G2.5	11.8	161.0	297
ZL5720070	5G2.5	13.2	194.0	403
ZL5720071	7G2.5	15.8	262.0	589
ZL5720072	12G2.5	18.2	410.0	702
ZL5720073	14G2.5	19.8	490.0	349
ZL5720074	4G4	13.7	238.0	499
ZL5720075	4G6	16.1	318.0	596
ZL5720076	5G6	17.7	410.0	842
ZL5720077	4G10	20.2	521.0	1173
ZL5720078	4G16	23.6	780.0	1247

LONGFLEX™

LONGFLEX™ CHAIN FD 730 P



ZHAOLONG LONGFLEX™ CHAIN FD 730 P 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement in oil environment.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~70°C
 - Mobile Application : -5°C ~70°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application :
 - 7.5D(D=cable diameter)
- Application of drag chain
 - 1 ~ 3 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : PVC
 Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
 Jacket : PUR
 Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility, Small bending radius
 Extremely resistant to oil, abrasion and hydrolysis
 Specially designed for cyclic movement towline

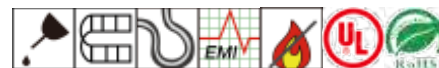
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5730001	2X0.5	5.3	10.0	36
ZL5730002	3G0.5	5.7	15.0	44
ZL5730003	4G0.5	6.3	19.0	53
ZL5730004	5G0.5	6.8	24.0	62
ZL5730005	7G0.5	8.0	34.0	82
ZL5730006	12G0.5	9.5	58.0	129
ZL5730007	18G0.5	11.4	86.4	185
ZL5730008	2X0.75	5.7	15.0	44
ZL5730009	3G0.75	6.2	22.0	55
ZL5730010	4G0.75	6.8	29.0	67
ZL5730011	5G0.75	7.4	37.0	80
ZL5730012	7G0.75	8.9	51.0	109
ZL5730013	12G0.75	10.6	87.0	172
ZL5730014	18G0.75	12.7	130.0	247
ZL5730015	25G0.75	15.2	181.0	346
ZL5730016	2X1	6.1	20.0	52
ZL5730017	3G1	6.6	29.0	66
ZL5730018	4G1	7.3	39.0	82
ZL5730019	5G1	8.0	48.0	97

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5730020	7G1	9.6	67.0	117
ZL5730021	12G1	11.4	115.0	211
ZL5730022	18G1	13.9	173.0	310
ZL5730023	25G1	16.4	240.0	426
ZL5730024	34G1	18.9	326.4	571
ZL5730025	41G1	20.6	394.0	684
ZL5730026	50G1	22.3	480.0	822
ZL5730027	2X1.5	6.8	29.0	68
ZL5730028	3G1.5	7.4	43.2	86
ZL5730029	4G1.5	8.1	58.0	106
ZL5730030	5G1.5	9.1	72.0	131
ZL5730031	7G1.5	10.9	101.0	178
ZL5730032	12G1.5	12.9	173.0	281
ZL5730033	16G1.5	14.6	230.0	365
ZL5730034	18G1.5	15.6	259.0	411
ZL5730035	25G1.5	18.6	360.0	571
ZL5730036	34G1.5	21.1	489.6	753
ZL5730037	42G1.5	23.0	629.0	919
ZL5730038	50G1.5	25.0	720.0	1093
ZL5730039	3G2.5	9.0	72.0	135
ZL5730040	4G2.5	10.0	96.0	168
ZL5730041	5G2.5	11.2	120.0	206
ZL5730042	7G2.5	13.6	168.0	286
ZL5730043	12G2.5	16.0	288.0	453
ZL5730044	14G2.5	17.2	336.0	525
ZL5730045	4G4	11.7	160.0	252
ZL5730046	5G4	13.1	200.0	309
ZL5730047	1G6	6.4	60.0	84
ZL5730048	4G6	13.9	230.0	377
ZL5730049	1G10	7.7	100.0	141
ZL5730050	4G10	17.6	384.0	614
ZL5730051	5G10	19.6	480.0	751
ZL5730052	1G16	9.2	160.0	198
ZL5730053	4G16	21.0	615.0	8517

LONGFLEX™

LONGFLEX™ CHAIN FD 730 CP



ZHAOLONG LONGFLEX™ CHAIN FD 730 CP 2X0.75mm² 80°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement in oil environment.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Mobile Application : -5°C ~70°C
- Test Voltage
 - 4000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application :
 - 7.5D(D=cable diameter)
- Application of drag chain
 - 3 ~ 8 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
 Insulation : PVC
 Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
 Shielded : Tinned copper braiding
 Jacket : PUR
 Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility, Small bending radius
 Extremely resistant to oil, abrasion and hydrolysis
 Good performance of resistant to external EMI

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5730054	2X0.5	6.9	33.0	70
ZL5730055	3G0.5	7.3	39.0	80
ZL5730056	4G0.5	7.9	46.0	94
ZL5730057	5G0.5	8.4	54.0	106
ZL5730058	7G0.5	9.8	70.0	138
ZL5730059	12G0.5	11.3	100.0	194
ZL5730060	2X0.75	7.3	39.0	81
ZL5730061	3G0.75	7.8	48.0	95
ZL5730062	4G0.75	8.4	59.0	111
ZL5730063	5G0.75	9.0	69.0	128
ZL5730064	7G0.75	10.7	90.0	171
ZL5730065	12G0.75	12.4	129.0	244
ZL5730066	16G0.75	14.2	186.0	328
ZL5730067	18G0.75	14.9	205.0	356
ZL5730068	25G0.75	17.4	271.0	479
ZL5730069	2X1	7.7	46.0	93
ZL5730070	3G1	8.2	57.0	109
ZL5730071	4G1	8.9	70.0	129
ZL5730072	5G1	9.8	81.0	154

LONGFLEX™ Ethernet Cables
 Bus Cables
 Low-Frequency Data Cables
 Sensor Cables
 LONGFLEX™ Motion Control Cables
 Towing Cables
 Servo Cables
 Robot Cables
 High-Temperature Cables
 Electrical Installation Cables
 Medical Cables
 Connection Technology
 Technical Data

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5730073	7G1	11.4	110.0	200
ZL5730074	12G1	13.4	182.0	304
ZL5730075	18G1	16.1	254.0	429
ZL5730076	25G1	18.8	365.0	593
ZL5730077	2X1.5	8.4	58.0	112
ZL5730078	3G1.5	9.0	75.0	133
ZL5730079	4G1.5	9.9	91.0	163
ZL5730080	5G1.5	10.9	112.0	193
ZL5730081	7G1.5	12.7	145.0	252
ZL5730082	12G1.5	15.1	247.0	391
ZL5730083	18G1.5	17.8	348.0	542
ZL5730084	25G1.5	21.2	498.0	767
ZL5730085	3G2.5	10.8	119.0	199
ZL5730086	4G2.5	11.8	161.0	238
ZL5730087	5G2.5	13.2	194.0	297
ZL5730088	7G2.5	15.8	262.0	403
ZL5730089	12G2.5	18.2	410.0	589
ZL5730090	14G2.5	19.8	490.0	702
ZL5730091	4G4	13.7	238.0	349
ZL5730092	4G6	16.1	318.0	499
ZL5730093	5G6	17.7	410.0	596
ZL5730094	4G10	20.2	521.0	842
ZL5730095	4G16	23.6	780.0	1173

LONGFLEX™

LONGFLEX™ CHAIN FD 837 P



ZHAOLONG LONGFLEX™ CHAIN FD 837 P 2X0.75mm² 90°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Very suitable for drag chain or frequent movement in oil environment.



Technical Data

- Temperature Range
 - Fixed Application : -50°C ~90°C
 - Mobile Application : -40°C ~80°C
- Test Voltage
 - 3000V/5min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 300/500V
- Minimum Bending Radius
 - Fixed Application :4D(D=cable diameter)
 - Mobile Application :7.5D(D=cable diameter)
- Application of drag chain
 - ≥20 million times

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
 Insulation : TPE
 Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
 Jacket : PUR
 Color : Grey (similar to RAL 7001)

Properties

Halogen free, flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Extremely resistant to oil, abrasion and hydrolysis

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5837001	2X0.5	5.1	10.0	34
ZL5837002	3G0.5	5.5	14.0	40
ZL5837003	5G0.5	6.6	24.0	55
ZL5837004	6G0.5	7.1	29.0	63
ZL5837005	7G0.5	7.7	34.0	76
ZL5837006	12G0.5	9.1	58.0	114
ZL5837007	18G0.5	10.9	86.0	165
ZL5837008	20G0.5	11.5	96.0	180
ZL5837009	25G0.5	13.4	120.0	219
ZL5837010	30G0.5	13.6	144.0	251
ZL5837011	36G0.5	14.7	173.0	290
ZL5837012	2X0.75	5.6	14.0	42
ZL5837013	3G0.75	6.0	22.0	50
ZL5837014	4G0.75	6.7	29.0	60
ZL5837015	5G0.75	7.3	36.0	71
ZL5837016	7G0.75	8.8	50.0	99
ZL5837017	12G0.75	10.3	86.0	158
ZL5837018	18G0.75	12.4	130.0	219
ZL5837019	20G0.75	13.3	144.0	240
ZL5837020	25G0.75	15.5	180.0	309
ZL5837021	36G0.75	16.9	259.0	411

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5837022	2X1	6.0	19.0	50
ZL5837023	3G1	6.5	29.0	61
ZL5837024	4G1	7.2	38.0	70
ZL5837025	5G1	7.8	48.0	93
ZL5837026	7G1	9.5	67.0	122
ZL5837027	12G1	11.2	115.0	196
ZL5837028	18G1	13.7	173.0	274
ZL5837029	20G1	14.4	192.0	300
ZL5837030	25G1	16.8	240.0	385
ZL5837031	30G1	17.0	288.0	444
ZL5837032	36G1	18.6	346.0	516
ZL5837033	2X1.5	6.7	29.0	68
ZL5837034	3G1.5	7.3	43.0	83
ZL5837035	4G1.5	8.0	58.0	100
ZL5837036	5G1.5	9.0	72.0	128
ZL5837037	7G1.5	10.7	101.0	177
ZL5837038	12G1.5	12.7	173.0	275
ZL5837039	18G1.5	15.2	259.0	405
ZL5837040	25G1.5	18.8	360.0	565
ZL5837041	30G1.5	19.8	432.0	652
ZL5837042	36G1.5	20.6	518.0	759
ZL5837043	41G1.5	22.4	614.0	978
ZL5837044	3G2.5	8.9	72.0	121
ZL5837045	4G2.5	9.9	96.0	163
ZL5837046	5G2.5	11.0	120.0	196
ZL5837047	7G2.5	13.4	168.0	266
ZL5837048	12G2.5	15.8	288.0	446
ZL5837049	18G2.5	18.9	432.0	665
ZL5837050	25G2.5	23.5	600.0	929

LONGFLEX™

LONGFLEX™ CHAIN FD 837 CP



ZHAOLONG LONGFLEX™ CHAIN FD 837 CP 2X0.75mm² 90°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in CNC machine tools, engraving machines, woodworking machinery steel production and other automation equipments production lines in all kinds of machines. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement in oil environment.



Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6

Insulation : TPE

Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires

Shielded : Tinned copper braiding

Inner Jacket : TPE

Outer Jacket : PUR

Color : Grey (similar to RAL 7001)

Properties

Halogen free, flame resistance according to IEC60332-1

Good property of flexibility

Small bending radius

Extremely resistant to oil, abrasion and hydrolysis

Good performance of resistant to external EMI

Technical Data

—Temperature Range

Fixed Application : -50°C ~90°C

Mobile Application : -40°C ~80°C

—Test Voltage

3000V/5min (AC)

—Insulation Resistance (20°C)

≥20MΩ.km

—Rated voltage

300/500V

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)

—Application of drag chain

≥20 million times

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5837051	2X0.5	6.7	32.0	67
ZL5837052	3G0.5	7.1	40.0	79
ZL5837053	5G0.5	8.2	53.0	107
ZL5837054	6G0.5	8.7	59.0	121
ZL5837055	7G0.5	9.5	67.0	132
ZL5837056	12G0.5	10.9	97.0	190
ZL5837057	18G0.5	12.9	131.0	245
ZL5837058	20G0.5	13.5	156.0	281
ZL5837059	25G0.5	15.6	190.0	367
ZL5837060	30G0.5	15.8	222.0	408
ZL5837061	36G0.5	16.9	251.0	459
ZL5837062	2X0.75	7.2	40.0	79
ZL5837063	3G0.75	7.6	47.0	96
ZL5837064	4G0.75	8.3	58.0	112
ZL5837065	5G0.75	8.9	65.0	126
ZL5837066	7G0.75	10.6	85.0	165
ZL5837067	12G0.75	12.1	127.0	231
ZL5837068	18G0.75	14.6	198.0	330
ZL5837069	25G0.75	17.7	259.0	459

Drag Chain Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5837070	36G0.75	19.5	348.0	605
ZL5837071	2X1	7.6	45.0	93
ZL5837072	3G1	8.1	55.0	109
ZL5837073	4G1	8.8	68.0	126
ZL5837074	5G1	9.6	81.0	147
ZL5837075	7G1	11.3	106.0	196
ZL5837076	12G1	13.2	175.0	292
ZL5837077	18G1	15.9	242.0	418
ZL5837078	25G1	19.5	329.0	575
ZL5837079	30G1	19.6	377.0	635
ZL5837080	36G1	21.2	467.0	758
ZL5837081	2X1.5	8.3	58.0	115
ZL5837082	3G1.5	8.9	76.0	139
ZL5837083	4G1.5	9.8	91.0	156
ZL5837084	5G1.5	10.8	111.0	198
ZL5837085	7G1.5	12.5	145.0	254
ZL5837086	12G1.5	14.9	242.0	416
ZL5837087	18G1.5	17.4	346.0	564
ZL5837088	25G1.5	21.4	486.0	811
ZL5837089	36G1.5	23.4	655.0	1066
ZL5837090	3G2.5	10.7	110.0	194
ZL5837091	4G2.5	11.7	136.0	234
ZL5837092	5G2.5	12.8	180.0	293
ZL5837093	7G2.5	15.6	246.0	418
ZL5837094	12G2.5	18.0	377.0	629
ZL5837095	18G2.5	21.5	569.0	912
ZL5837096	25G2.5	26.5	765.0	1266

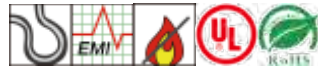
LONGFLEX™ Servo Cables

- Our servo cables are of high-flexibility, high strength and wear-resistance: providing servo cable products applied in various environment.
- It can be mainly applied in the motion connecting and control of servo motor.
- Zhaolong has more than ten-year designing, developing and manufacturing experiences in combined cable design: we can meet the optimized requirements of customers' integrated system through reasonable layout design.
- Our products are environment friendly, reaching the requirements of RoHS.
- Star products **LONGFLEX SERVO 310 series** P.161-162
LONGFLEX SERVO FD
LONGFLEX SERVO FD 320 series P.164
High Flexible Motion
LONGFLEX SERVO FD 330 series P.168
ultrahigh flexible motion, meeting the robot application
- Relevant cable assemblies, please refer to the chapters in «Connecting Technology», **servo series products** in P.266-267.



Servo Cables

LONGFLEX™ SERVO 310



ZHAOLONG LONGFLEX™ SERVO 310 4G1.5mm²+(2X0.75mm²) IEC60332-1 ****m YY/MM/DD

Application

Can be used as connecting cables between motor and converter ,or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of low electrical interference.Suitable for occasional movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - Power Line :
 - core/core : 4000V/min (AC)
 - core/shield : 2000V/min (AC)
 - Control Line :
 - core/core : 1500V/min (AC)
 - core/shield : 750V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - Power Line : 600/1000V
 - Control Line : 300/500V
- Minimum Bending Radius
 - Fixed Application: 6D(D=cable diameter)
 - Occasional Movement : 20D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
 Insulation : PVC
 Insulation Color : According to DIN VDE 0293; black cores with white numerals ; with Green/yellow
 Shielded : Single control pair tinned copper braiding,double control pair AL/Mylar screen and tinned copper braiding
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Economical solution

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5310001	4G0.75+2x(2x0.34)	9.5	91.9	120
ZL5310002	4G1.5+2x(2x0.75)	12.1	100.6	185
ZL5310003	4G2.5+(2x2x0.75)	13.9	142.1	327
ZL5310004	4G4+(2x0.75+2x1.0)	15.8	217.8	423
ZL5310005	4G6+(2x0.75+2x1.0)	16.7	294.6	544
ZL5310006	4G16+(2x2x1.0)	23.5	668.8	1168
ZL5310007	4G1.5+(2x0.75)	11.7	98.0	149
ZL5310008	5G1.5+(2x0.75)	12.7	110.0	160
ZL5310009	7G1.5+(2x0.75)	12.4	144.8	210
ZL5310010	4G2.5+(2x0.75)	13.1	138.6	227
ZL5310011	7G2.5+(2x0.75)	15.2	215.7	334

LONGFLEX™

LONGFLEX™ SERVO 310 CY



ZHAOLONG LONGFLEX™ SERVO 310 CY 4G0.75mm²+2X(2X0.34mm²) IEC60332-1 ****m YY/MM/DD

Application

Can be used as connecting cables between motor and converter ,or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference.Suitable for occasional movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - Power Line :
 - core/core : 4000V/min (AC)
 - core/shield : 2000V/min (AC)
 - Control Line :
 - core/core : 1500V/min (AC)
 - core/shield : 750V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - Power Line : 600/1000V
 - Control Line : 300/500V
- Minimum Bending Radius
 - Fixed Application : 6D(D=cable diameter)
 - Occasional Movement : 20D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 5
Insulation : PVC
Insulation Color : According to DIN VDE 0293; black cores with
white numerals ; with Green/yellow
Shielded : Control pair AL/Mylar screen and tinned copper
braiding, tinned copper overall braiding
Jacket : PVC
Color : Grey (similar to RAL 7001)

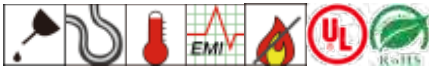
Properties

Flame resistance according to IEC60332-1
Good property of flexibility
Small bending radius
Good performance of resistant to external EMI
Economical solution

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5310012	4G0.75+2x(2x0.34)	10.5	111.1	165
ZL5310013	4G1.5+2x(2x0.75)	12.7	147.5	245
ZL5310014	4G2.5+(2x2x0.75)	14.9	226.1	385
ZL5310015	4G4+(2x0.75+2x1.0)	16.6	303.6	482
ZL5310016	4G6+(2x0.75+2x1.0)	17.7	379.4	609
ZL5310017	4G10+(2x0.75+2x1.0)	21.6	591.7	828
ZL5310018	4G16+(2x2x1.0)	24.5	861.3	1150

Servo Cables

LONGFLEX™ SERVO 317 CY



ZHAOLONG LONGFLEX™ SERVO 317 CY 4G1.5mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as connecting cables between motor and converter ,or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference.Suitable for occasional movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~90°C
 - Occasional Movement : -5°C ~90°C
- Test Voltage
 - Power Line:
 - core/core : 4000V/min (AC)
 - core/shield : 4000V/min (AC)
 - Control Line :
 - core/core : 4000V/min (AC)
 - core/shield : 300V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - Power Line: 600/1000V
 - Control Line : 300/500V
- Minimum Bending Radius
 - Fixed Application : 6D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
 Insulation : PVC
 Insulation Color : According to DIN VDE 0293; black cores with white numerals ; with Green/yellow
 Shielded : Control pair AL/Mylar screen and tinned copper braiding, tinned copper overall braiding
 Jacket : PVC
 Color : Orange (similar to RAL 2003)

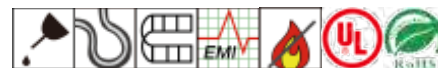
Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Good performance of resistant to external EMI
 Good oil resistance
 Wider range of operation temperature

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5317001	4 G 1.5	9.9	90.0	173
ZL5317002	4 G 2.5	11.8	134.0	250
ZL5317003	4 G 4	13.8	217.0	368
ZL5317004	4 G 6	15.3	296.0	478
ZL5317005	4 G 10	19.5	491.0	781
ZL5317006	4 G 16	23.4	742.0	1198
ZL5317007	4 G 25	27.5	1144.0	1730
ZL5317008	4 G 35	30.9	1522.0	2284
ZL5317009	4 G 0.75+ 2X(2 x 0.34)	12.4	96.0	225
ZL5317010	4 G 1.0+ 2X(2 x 0.75)	13.6	149.0	296
ZL5317011	4 G 1.5+ 2X(2 x 0.75)	14.8	169.0	343
ZL5317012	4 G 2.5+ 2X(2 x 1.0)	16.3	238.0	420
ZL5317013	4 G 4+(2 x 1.0+2 x 1.5)	16.7	317.0	537
ZL5317014	4 G 6+(2 x 1.0+2 x 1.5)	19.2	426.0	704
ZL5317015	4 G 10+(2 x 1.0+2 x 1.5)	22.5	599.0	965
ZL5317016	4 G 16+(2 x 1.0+2 x 1.5)	25.5	873.0	1380
ZL5317017	4 G 25+ (2 x 2 x 1.5)	30.6	1265.0	1954
ZL5317018	4 G 35+ (2 x 2 x 1.5)	33.4	1659.0	2564

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LONGFLEX™ SERVO FD 320 CY



ZHAOLONG LONGFLEX™ SERVO FD 320 CY 4G1.5mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as connecting cables between motor and converter ,or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference.Very suitable for drag chain or frequent movement.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -5°C ~70°C
- Test Voltage
 - core/core : 4000V/min (AC)
 - core/shield : 4000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 600/1000V
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application::
 - 7.5D(D=cable diameter)
- Application of drag chain
 - 3~8 million times

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : PP
 Insulation Color : According to DIN VDE 0293; black cores with white numerals ; with Green/yellow
 Shielded : Tinned copper overall braiding
 Jacket : PVC
 Color : Orange (similar to RAL 2003)

Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 Small bending radius
 Good performance of resistant to external EMI
 Good oil resistance
 Low capacitance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5320001	4 G 1.5	9.8	89.0	157
ZL5320002	4 G 2.5	11.9	133.8	233
ZL5320003	4 G 4	13.5	210.9	335
ZL5320005	4 G 10	19.7	488.2	747
ZL5320006	4 G 16	23.9	744.8	1109
ZL5320008	4 G 35	33.3	1565.4	2264

Servo Cables

LONGFLEX™ SERVO FD 327 P



ZHAOLONG LONGFLEX™ SERVO FD 327 P 4G1.5mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as connecting cables between motor and converter ,or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of low electrical interference.Very suitable for drag chain or frequent movement in oil and wet environment.



Technical Data

- Temperature Range
 Fixed Application : -50°C ~90°C
 Occasional Movement : -40°C ~90°C
- Test Voltage
 core/core : 4000V/min (AC)
 core/shield : 4000V/min (AC)
- Insulation Resistance (20°C)
 ≥20MΩ.km
- Rated voltage
 600/1000V
- Minimum Bending Radius
 Fixed Application :
 4D(D=cable diameter)
 Mobile Application::
 7.5D(D=cable diameter)
- Application of drag chain
 3~8 million times

Cable Construction

Conductor : Ultra-fine stranded bare copper,according to IEC 60228/VDE 0295 class 6
 Insulation : PP
 Insulation Color :According to DIN VDE 0293; black cores with white numerals ; with Green/yellow
 Shielded : Single control pair tinned copper braiding,double control pair AL/Mylar screen and tinned copper braiding
 Jacket : PUR
 Color : Black(similar to RAL 9005)

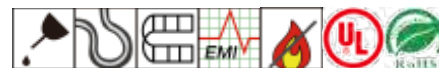
Properties

Halogen free,flame resistance according to IEC60332-1
 Good property of flexibility, small bending radius
 Good performance of resistant to external EMI
 Extremely oil resistance
 Abrasion resistance and anti-hydrolysis
 Low capacitance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5327001	4 G 1.5 + (2 x 1.5)	11.7	99.0	217
ZL5327002	4 G 2.5 + (2 x 1.5)	13.1	134.0	270
ZL5327003	4 G 4 + (2 x 1.5)	14.2	195.0	333
ZL5327004	4 G 6 + (2 x 1.5)	16.0	272.0	403
ZL5327005	4 G 10 + (2 x 1.5)	18.4	425.0	581
ZL5327006	4 G 16 + (2 x 1.5)	22.1	656.0	887
ZL5327007	4 G 0.75 + 2 x (2 x 0.34)	10.9	54.0	143
ZL5327008	4 G 1.5 + 2 x (2 x 0.75)	12.3	103.0	209
ZL5327009	4 G 2.5 + 2 x (2 x 1.0)	14.3	152.0	306
ZL5327010	4 G 4 + 2 x (2 x 1.0)	15.4	218.0	381
ZL5327011	4 G 4 + (2 x 1.0) + (2 x 1.5)	15.6	231.0	388
ZL5327012	4 G 6 + (2 x 1.0) + (2 x 1.5)	17.1	308.0	460

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LONGFLEX™ SERVO FD 327 CP



ZHAOLONG LONGFLEX™ SERVO FD 327 CP 4G1.5mm² IEC60332-1 ****m YY/MM/DD

Application

Can be used as connecting cables between motor and converter ,or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference.Very suitable for drag chain or frequent movement in oil and wet environment.



Technical Data

- Temperature Range
 - Fixed Application : -50°C ~90°C
 - Occasional Movement : -40°C ~90°C
- Test Voltage
 - core/core : 4000V/min (AC)
 - core/shield : 4000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - 600/1000V
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application :
 - ≤16mm² 7.5D
 - > 16mm² 10D(D=cable diameter)
- Application of drag chain
 - 3~8 million times

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : PP
 Insulation Color : According to DIN VDE 0293; black cores with white numerals ; with Green/yellow
 Shielded : Single control pair tinned copper braiding,double control pair AL/Mylar screen and tinned copper braiding, tinned copper overall braiding
 Jacket : PUR
 Color : Orange (similar to RAL 2003)

Properties

Halogen free,flame resistance according to IEC60332-1
 Good property of flexibility, small bending radius
 Good performance of resistant to external EMI
 Extremely oil resistance
 Abrasion resistance and anti-hydrolysis
 Low capacitance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5327013	4 G 1.5	9.1	79.0	140
ZL5327014	4 G 2.5	10.6	129.0	197
ZL5327015	4 G 4	11.9	186.0	268
ZL5327016	4 G 6	14.5	296.0	397
ZL5327017	4 G 10	17.5	449.0	591
ZL5327018	4 G 16	21.6	716.0	955
ZL5327019	4 G 25	25.2	1073.0	1337
ZL5327020	4 G 35	28.6	1480.0	1769
ZL5327021	4 G 1.5 + (2 x 1.5)	11.6	135.0	261
ZL5327022	4 G 2.5 + (2 x 1.5)	13.4	188.0	318
ZL5327023	4 G 4 + (2 x 1.5)	14.8	235.0	385
ZL5327024	4 G 6 + (2 x 1.5)	16.8	329.0	486
ZL5327025	4 G 10 + (2 x 1.5)	19.4	515.0	701
ZL5327026	4 G 16 + (2 x 1.5)	23.1	757.0	1048
ZL5327027	4 G 25 + (2 x 1.5)	26.6	1147.0	1532
ZL5327028	4 G 35 + (2 x 1.5)	30.9	1538.0	2097
ZL5327029	4 G 1.5 + 2 x (2 x 0.75)	12.2	159.0	313

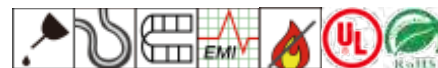
Servo Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5327030	4 G 2.5 + 2 x (2 x 1.0)	14.6	207.0	395
ZL5327031	4 G 4 + 2 x (2 x 1.0)	16.1	274.0	466
ZL5327032	4 G 4 + (2 x 1.0) + (2 x 1.5)	16.3	344.0	485
ZL5327033	4 G 6 + (2 x 1.0) + (2 x 1.5)	18.1	436.0	588
ZL5327034	4 G 10 + (2 x 1.0) + (2 x 1.5)	21.8	610.0	819
ZL5327035	4 G 16 + 2 x (2 x 1.5)	25.5	801.0	1135
ZL5327036	4 G 25 + 2 x (2 x 1.5)	28.8	1187.0	1559
ZL5327037	4 G 35 + 2 x (2 x 1.5)	30.9	1588.0	2093

LONGTRONIC™ Ethernet Cables
 Bus Cables
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LONGHEX™
 Motion Control Cables
 Towline Cables
 Servo Cables
 Robot Cables
 High-Temperature Cables
 Electrical Installation Cables
 Medical Cables
 Connection Technology
 Technical Data

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LONGFLEX™ SERVO FD 330 CP



ZHAOLONG LONGFLEX™ SERVO FD 330 CP 4G1.5mm² E324007 AWM 20939 80°C 600V c AWM I/II A/B 80°C 600V FT2 ****m YY/MM/DD

Application

Can be used as connecting cables between motor and converter ,or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference.Very suitable for drag chain or frequent movement in oil and wet environment.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Occasional Movement : -40°C ~80°C
- Test Voltage
 - core/core : 4000V/min (AC)
 - core/shield : 4000V/min (AC)
- Insulation Resistance (20°C)
 - ≥1000MΩ.km
- Rated voltage
 - UL/CSA 600V
 - IEC/VDE ≤0.5mm²: 300/500V
 - > 0.5mm²: 450/750V
- Minimum Bending Radius
 - Fixed Application : 4D(D=cable diameter)
 - Mobile Application : 7.5D(D=cable diameter)
- Technical Certification : UL 20939
- Application of drag chain : ≥10 million times

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : TPE
 Insulation Color : According to DIN VDE 0293; black cores with white numerals ; with Green/yellow
 Shielded : Control pair tinned copper braiding, tinned copper overall braiding
 Jacket : PUR
 Color : Orange (similar to RAL 2003)

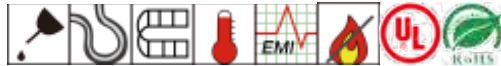
Properties

Halogen free,flame resistance according to IEC60332-1
 Good property of flexibility, small bending radius
 Good performance of resistant to external EMI
 Extremely oil resistance
 Abrasion resistance and anti-hydrolysis
 High mechanical strength and extremely bending resistance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5330001	4G1.5	9.0	81.0	120
ZL5330002	4G2.5	10.1	122.0	171
ZL5330003	4G4	13.4	205.0	280
ZL5330004	4G6	15.0	289.0	381
ZL5330005	4G10	19.4	469.0	651
ZL5330006	4G16	22.3	711.0	942
ZL5330007	4G25	28.6	1112.0	1508
ZL5330008	4G35	31.8	1499.0	1975
ZL5330009	4G0.75+(2X0.5)	9.4	75.0	131
ZL5330010	4G1.5+(2X1.5)	11.1	139.0	212
ZL5330011	4G2.5+(2X1.5)	12.5	180.0	274
ZL5330012	4G4.0+(2X1.5)	15.4	264.0	400
ZL5330013	4G6.0+(2X1.5)	16.9	348.0	504
ZL5330014	4G10+(2X1.5)	20.8	519.0	773
ZL5330015	4G16+(2X1.5)	23.6	790.0	1096
ZL5330016	4G25+(2X1.5)	27.7	1162.0	1594
ZL5330017	4G35+(2X1.5)	32.0	1551.0	2128

Servo Cables

LONGFLEX™ SERVO FD 318 CY



ZHAOLONG LONGFLEX™ SERVO FD 318 CY 4G1.5mm² E324007 IAWM 2586 105°C 600V VW-1 c IAWM I/II A/B 105°C 600V FT1 ****m YY/MM/DD

Application

Can be used as connecting cables between motor and converter ,or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference.Very suitable for drag chain or frequent movement in high temperature environment.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~105°C
 - Occasional Movement : -5°C ~105°C
- Test Voltage
 - core/core : 4000V/min (AC)
 - core/shield : 4000V/min (AC)
- Insulation Resistance (20°C)
 - ≥20MΩ.km
- Rated voltage
 - UL/CSA 600V
 - IEC/VDE ≤0.5mm²: 300/500V
 - > 0.5mm²: 450/750V
- Minimum Bending Radius
 - Fixed Application :4D(D=cable diameter)
 - Mobile Application :7.5D(D=cable diameter)
- Technical Certification : UL 2586
- Application of drag chain: 3 ~ 8million times

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : PVC
 Insulation Color : According to DIN VDE 0293; black cores with white numerals ; with Green/yellow
 Inner jacket : PVC
 Shield : Control pair tinned copper braiding, tinned copper overall braiding
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

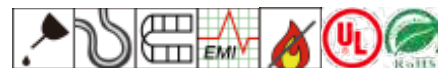
Properties

Flame resistance according to VW-1/FT1
 Good property of flexibility,small bending radius
 Good performance of resistant to external EMI
 Good oil resistance
 Heat resistance

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5318001	4G1.5	9.0	81.0	120
ZL5318002	4G2.5	10.1	122.0	171
ZL5318003	4G4	13.4	205.0	280
ZL5318004	4G6	15.0	289.0	381
ZL5318005	4G10	19.4	469.0	651
ZL5318006	4G16	22.3	711.0	942
ZL5318007	4G25	28.6	1112.0	1508
ZL5318008	4G35	31.8	1499.0	1975
ZL5318009	4G0.75+(2X0.5)	9.4	75.0	131
ZL5318010	4G1.5+(2X1.5)	11.1	139.0	212
ZL5318011	4G2.5+(2X1.5)	12.5	180.0	274
ZL5318012	4G4.0+(2X1.5)	15.4	264.0	400
ZL5318013	4G6.0+(2X1.5)	16.9	348.0	504
ZL5318014	4G10+(2X1.5)	20.8	519.0	773
ZL5318015	4G16+(2X1.5)	23.6	790.0	1096
ZL5318016	4G25+(2X1.5)	27.7	1162.0	1594
ZL5318017	4G35+(2X1.5)	32.0	1551.0	2128

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LONGFLEX™ SERVO FD 340 CP



ZHAOLONG LONGFLEX™ SERVO FD 340 CP 4X2AWG PUR IEC60332-1 ****m YY/MM/DD

Application

Can be used as connecting cables between encoder and controller used in CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference. Very suitable for drag chain or frequent movement in oil and wet environment.



Technical Data

- Temperature Range
 - Fixed Application : -50°C ~80°C
 - Mobile Application : -20°C ~60°C
- Test Voltage
 - 500V/min (AC)
- Insulation Resistance (20°C)
 - 10MΩ.km
- Rated voltage
 - 30V
- Minimum Bending Radius
 - Fixed Application : 4D(D=cable diameter)
 - Mobile Application : 7.5D(D=cable diameter)
- Technical Certification : UL 2464
- Application of drag chain : 5~10 million times

Cable Construction

- Conductor : fine stranded bare copper, according to IEC 60228/ VDE 0295 class 6
- Insulation : PP
- Shielded : Tinned copper braiding
- Jacket : PUR
- Color : Grey(similar to RAL 6018)

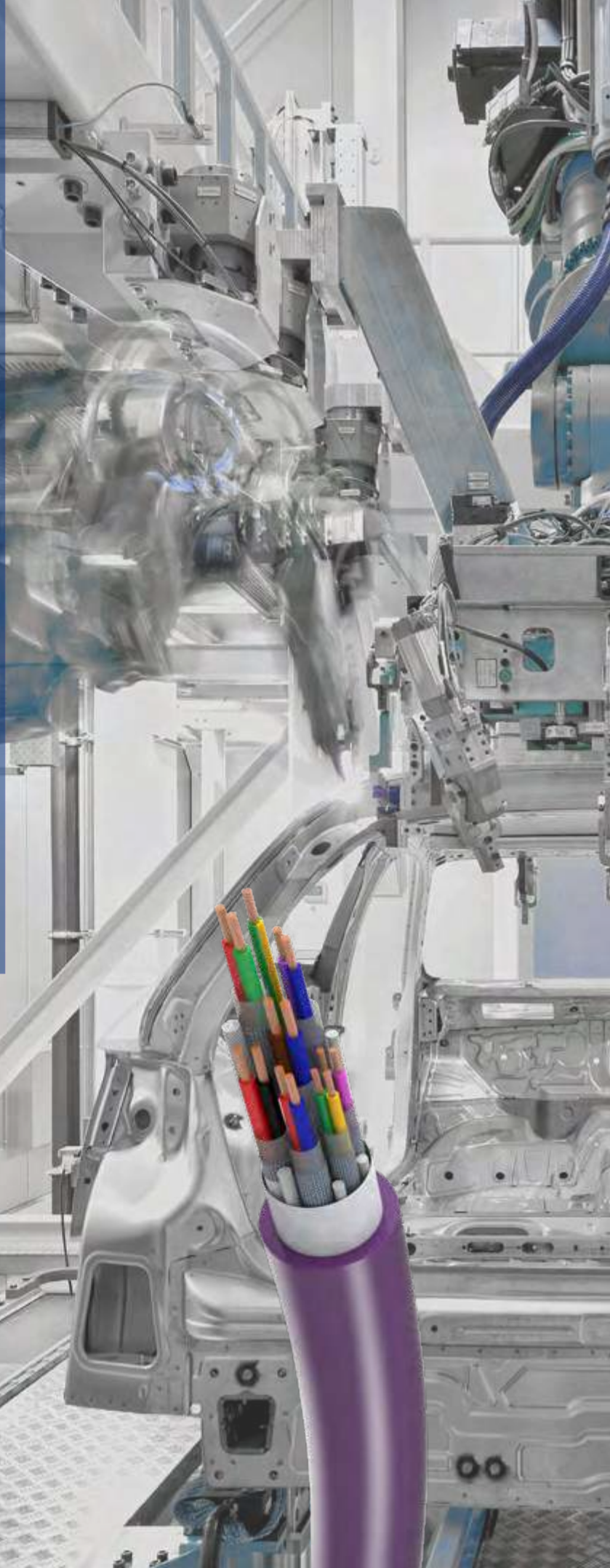
Properties

- Halogen free, flame resistance according to IEC60332-1
- Good property of flexibility
- Small bending radius
- Good oil resistance
- Good performance of resistant to external EMI

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5340001	(12X0.22)	6.9	48.0	76
ZL5340002	(2X2X0.18)	5.0	23.1	36
ZL5340003	(4X2X0.18)	6.4	34.2	53
ZL5340004	(8X2X0.18)	7.8	54.0	85
ZL5340005	(2X2X0.15+2X0.38)	6.9	39.0	67
ZL5340006	(4X2X0.14+4X0.5)	7.5	48.0	83
ZL5340007	(4X2X0.34+4X0.5)	8.9	77.0	120
ZL5340008	(5X2X0.14+2X0.5)	7.8	41.0	82
ZL5340009	(3X2X0.25+2X0.5)	8.4	44.0	95
ZL5340010	(3X(2X0.14)+2X(0.5))	8.9	69.0	113
ZL5340011	(3X(2X0.14))+4X0.14+2X0.5)	8.8	66.0	101
ZL5340012	(3X(2X0.14))+4X0.14+4X0.22+2X0.5)	9.4	86.0	139

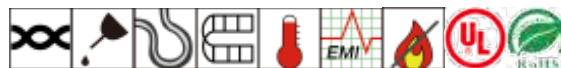
LONGFLEX™ Robot Cables

- We can customize and provide the customers with comprehensive-designed-cable personalized customization service, meeting the customers' requirements with the best product design.
- Standard multi-axis industrial robot control cable.
- High flexibility, resistance to bending and torsion resistance. It is suitable for the mechanical arm wiring.
- Advanced manufacturing technology fully eliminate the internal stress of the cable itself. Cooperate with the international giant robot factories has accumulated rich experience in cable design.
- Zhaolong has more than ten years experience in designing, development and manufacturing combined cables; To achieve the optimized requirements of customer integration system, we improve the cable structure through rational layout design.
- Our product are environment friendly, reaching the requirements of RoHS.



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LONGFLEX™ ROBOTIC FD 938 CY



ZHAOLONG LONGFLEX™ ROBOTIC FD 938 CY 10X0.14mm² E324007 AWM 2517 105°C 300V VW-1 AWM I/II A/B 105°C 300V FT1 ****m YY/MM/DD

Application

This cable is designed for movement application with torsion. It's very suitable for industrial robots and manipulators. Good performance of resistant to oil. It can be used in high temperature environment.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~105°C
 - Mobile Application : -5°C ~105°C
- Test Voltage
 - core /core : 2000V/min (AC)
 - core /shield : 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥100MΩ.km
- Rated voltage
 - UL/CSA 300V
 - IEC/VDE ≤0.5mm² : 300/300V
 - > 0.5mm² : 300/500V
- Minimum Bending Radius
 - Fixed Application : 3D(D=cable diameter)
 - Mobile Application : 5D(D=cable diameter)
- Technical Certification
 - UL2517
- Application of drag chain
 - ≥10 million times

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : TPEE
 Insulation Color: According to DIN 47100
 Shielded : Tinned copper spiral shield
 Jacket : PVC
 Color : Grey (similar to RAL 7001)

Properties

flame resistance according to VW-1/FT1
 Good property of flexibility, small bending radius
 Good performance of resistant to external EMI
 Extremely oil resistance, abrasion resistance and anti-hydrolysis
 Extremely resistant to bending and torsion
 Resistance to low and high temperature

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5938001	2 X 0.14	4.8	10.0	30
ZL5938002	4 X 0.14	5.3	14.0	38
ZL5938003	6 X 0.14	6.0	19.0	48
ZL5938004	10 X 0.14	7.1	28.0	67
ZL5938005	20 X 0.14	8.6	46.0	103
ZL5938006	30 X 0.14	10.0	66.0	140
ZL5938007	2 X 0.20	5.1	13.0	34
ZL5938008	4 X 0.20	5.6	18.0	45
ZL5938009	6 X 0.20	6.4	25.0	57
ZL5938010	10 X 0.20	7.7	37.0	81
ZL5938011	20 X 0.20	9.4	63.0	128
ZL5938012	30 X 0.20	10.9	92.0	176
ZL5938013	2 X 0.30	5.4	15.0	39
ZL5938014	4 X 0.30	6.0	23.0	52
ZL5938015	6 X 0.30	6.9	32.0	68
ZL5938016	10 X 0.30	8.3	48.0	97
ZL5938017	20 X 0.30	10.3	88.0	160

Robot Cables

Item NO.	Spec. (mm ²)	Standard O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5938018	30 X 0.30	11.9	124.0	218
ZL5938019	2 X 0.50	5.9	21.0	47
ZL5938020	4 X 0.50	6.6	33.0	66
ZL5938021	6 X 0.50	7.5	46.0	87
ZL5938022	10 X 0.50	9.2	71.0	127
ZL5938023	20 X 0.50	11.5	132.0	216
ZL5938024	30 X 0.50	13.8	194.0	316
ZL5938025	2 X 0.75	6.7	28.0	60
ZL5938026	4 X 0.75	7.6	45.0	87
ZL5938027	6 X 0.75	8.8	64.0	117
ZL5938028	10 X 0.75	11.0	104.0	179
ZL5938029	20 X 0.75	14.2	192.0	322
ZL5938030	30 X 0.75	16.5	275.0	445
ZL5938031	2 X 1.0	7.1	33.0	68
ZL5938032	4 X 1.0	8.1	55.0	101
ZL5938033	6 X 1.0	9.4	78.0	136
ZL5938034	10 X 1.0	11.8	127.0	209
ZL5938035	20 X 1.0	15.3	237.0	379
ZL5938036	2 X 1.5	7.7	46.0	84
ZL5938037	4 X 1.5	8.8	78.0	129
ZL5938038	6 X 1.5	10.4	116.0	182
ZL5938039	10 X 1.5	13.5	188.0	293
ZL5938040	20 X 1.5	16.9	347.0	508
ZL5938041	2 X 2.5	8.8	67.0	112
ZL5938042	4 X 2.5	10.2	121.0	182
ZL5938043	6 X 2.5	12.4	174.0	264
ZL5938044	10 X 2.5	15.7	285.0	411
ZL5938045	20X 2.5	20.7	534.0	768

LONGFLEX™

LONGFLEX™ ROBOTIC FD 938 CY-TP



ZHAOLONG LONGFLEX™ ROBOTIC FD 938 CY-TP 10X2X0.14mm² E324007 AWM 2517 105°C 300V VW-1 c AWM I/II A/B 105°C 300V FT1 ****m YY/MM/DD

Application

This cable is designed for movement application with torsion. It's very suitable for industrial robots and manipulators. Good performance of resistant to oil. It can be used in high temperature environment.



Technical Data

—Temperature Range

Fixed Application : -40°C ~105°C

Mobile Application : -5°C ~105°C

—Test Voltage

core /core : 2000V/min (AC)

core /shield : 2000V/min (AC)

—Insulation Resistance (20°C)

≥100MΩ.km

—Rated voltage

UL/CSA 300V

IEC/VDE ≤0.5mm² : 300/300V

> 0.5mm² : 300/500V

—Minimum Bending Radius

Fixed Application : 3D(D=cable diameter)

Mobile Application : 5D ((D=cable diameter)

—Technical Certification

UL2517

—Application of drag chain

≥10 million times

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6

Insulation : TPEE

Insulation Color : According to DIN 47100

Shielded : Tinned copper spiral shield

Jacket : PVC

Color : Grey (similar to RAL 7001)

Properties

flame resistance according to VW-1/FT1

Good property of flexibility, small bending radius

Good performance of resistant to external EMI

Extremely oil resistance, abrasion resistance and anti-hydrolysis

Extremely resistant to bending and torsion

Resistance to low and high temperature

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5938046	2X2X0.14	6.6	18.5	48
ZL5938047	4X2X0.14	7.2	25.7	62
ZL5938048	6X2X0.14	8.4	34.9	78
ZL5938049	10X2X0.14	10.4	55.4	112
ZL5938050	15X2X0.14	13.5	83.8	177
ZL5938051	2X2X0.20	7.2	23.5	57
ZL5938052	4X2X0.20	7.8	33.7	75
ZL5938053	6X2X0.20	9.1	46.2	94
ZL5938054	10X2X0.20	11.4	74.2	137
ZL5938055	15X2X0.20	14.8	111.9	218
ZL5938056	2X2X0.30	7.7	28.9	65
ZL5938057	4X2X0.30	8.5	43.5	89
ZL5938058	6X2X0.30	10.0	63.7	117
ZL5938059	10X2X0.30	12.9	97.1	178
ZL5938060	15X2X0.30	16.2	146.1	264
ZL5938061	2X2X0.50	8.5	39.5	80
ZL5838062	4X2X0.50	9.4	62.4	115

Robot Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5938063	6X2X0.50	11.2	92.2	154
ZL5938064	10X2X0.50	14.5	148.8	243
ZL5938065	15X2X0.50	18.3	215.1	356
ZL5938066	2X2X0.75	10.2	57.8	110
ZL5938067	4X2X0.75	11.2	90.9	159
ZL5938068	6X2X0.75	13.8	133.8	226
ZL5938069	10X2X0.75	17.4	207.9	330

LONGFLEX™

LONGFLEX™ ROBOTIC FD 930 CP



ZHAOLONG LONGFLEX™ ROBOTIC FD 930 CP 10X0.14mm² E324007 IAWM 20936 80°C 300V c IAWM I/II A/B 80°C 300V FT2 ****m YY/MM/DD

Application

This cable is designed for movement application with torsion. It's very suitable for industrial robots and manipulators. Extremely performance of resistant to oil. It can be used for indoor or outdoor of low and high temperature.



Technical Data

- Temperature Range
 - Fixed Application : -50°C ~80°C
 - Mobile Application : -40°C ~80°C
- Test Voltage
 - core /core : 2000V/min (AC)
 - core /shield : 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥1000MΩ.km
- Rated voltage
 - UL/CSA 300V
 - IEC/VDE ≤0.5mm² : 300/300V
 - > 0.5mm² : 300/500V
- Minimum Bending Radius
 - Fixed Application : 3D(D=cable diameter)
 - Mobile Application : 5D(D=cable diameter)
- Technical Certification
 - UL20936
- Application of drag chain
 - ≥10 million times

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : TPEE
 Insulation Color : According to DIN 47100
 Shielded : Tinned copper spiral shield
 Jacket : PUR
 Color : Grey (similar to RAL 7001)

Properties

Halogen free, flame resistance according to FT2
 Good property of flexibility, small bending radius
 Good performance of resistant to external EMI
 Extremely oil resistance, abrasion resistance and anti-hydrolysis
 Extremely resistant to bending and torsion
 Resistance to low and high temperature

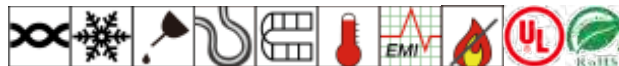
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5930070	2 X 0.14	4.8	10.0	30
ZL5930071	4 X 0.14	5.3	14.0	38
ZL5930072	6 X 0.14	6.0	19.0	48
ZL5930073	10 X 0.14	7.1	28.0	67
ZL5930074	20 X 0.14	8.6	46.0	103
ZL5930075	30 X 0.14	10.0	66.0	140
ZL5930076	2 X 0.20	5.1	13.0	34
ZL5930077	4 X 0.20	5.6	18.0	45
ZL5930078	6 X 0.20	6.4	25.0	57
ZL5930079	10 X 0.20	7.7	37.0	81
ZL5930080	20 X 0.20	9.4	63.0	128
ZL5930081	30 X 0.20	10.9	92.0	176
ZL5930082	2 X 0.30	5.4	15.0	39
ZL5930083	4 X 0.30	6.0	23.0	52
ZL5930084	6 X 0.30	6.9	32.0	68
ZL5930085	10 X 0.30	8.3	48.0	97
ZL5930086	20 X 0.30	10.3	88.0	160

Robot Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5930087	30 X 0.30	11.9	124.0	218
ZL5930088	2 X 0.50	5.9	21.0	47
ZL5930089	4 X 0.50	6.6	33.0	66
ZL5930090	6 X 0.50	7.5	46.0	87
ZL5930091	10 X 0.50	9.2	71.0	127
ZL5930092	20 X 0.50	11.5	132.0	216
ZL5930093	30 X 0.50	13.8	194.0	316
ZL5930094	2 X 0.75	6.7	28.0	60
ZL5930095	4 X 0.75	7.6	45.0	87
ZL5930096	6 X 0.75	8.8	64.0	117
ZL5930097	10 X 0.75	11.0	104.0	179
ZL5930098	20 X 0.75	14.2	192.0	322
ZL5930099	30 X 0.75	16.5	275.0	445
ZL5930100	2 X 1.0	7.1	33.0	68
ZL5930101	4 X 1.0	8.1	55.0	101
ZL5930102	6 X 1.0	9.4	78.0	136
ZL5930103	10 X 1.0	11.8	127.0	209
ZL5930104	20 X 1.0	15.3	237.0	379
ZL5930105	2 X 1.5	7.7	46.0	84
ZL5930106	4 X 1.5	8.8	78.0	129
ZL5930107	6 X 1.5	10.4	116.0	182
ZL5930108	10 X 1.5	13.5	188.0	293
ZL5930109	20 X 1.5	16.9	347.0	508
ZL5930110	2 X 2.5	8.8	67.0	112
ZL5930111	4 X 2.5	10.2	121.0	182
ZL5930112	6 X 2.5	12.4	174.0	264
ZL5930113	10 X 2.5	15.7	285.0	411
ZL5930114	20X 2.5	20.7	534.0	768

LONGFLEX™

LONGFLEX™ ROBOTIC FD 930 CP-TP



ZHAOLONG LONGFLEX™ ROBOTIC FD 930 CP-TP 10X2X0.14mm2 E324007 AWM 20936 80°C 300V c AWM I/II A/B 80°C 300V FT2 ****m YY/MM/DD

Application

This cable is designed for movement application with torsion. It's very suitable for industrial robots and manipulators. Extremely performance of resistant to oil. It can be used for indoor or outdoor of low and high temperature.



Technical Data

- Temperature Range
 - Fixed Application : -50°C ~80°C
 - Mobile Application : -40°C ~80°C
- Test Voltage
 - core /core : 2000V/min (AC)
 - core /shield : 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥100MΩ.km
- Rated voltage
 - UL/CSA 300V
 - IEC/VDE ≤0.5mm² : 300/300V
 - > 0.5mm² : 300/500V
- Minimum Bending Radius
 - Fixed Application : 3D(D=cable diameter)
 - Mobile Application : 5D(D=cable diameter)
- Technical Certification
 - UL20936
- Application of drag chain
 - ≥10 million times

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : TPEE
 Insulation Color : According to DIN 47100
 Shielded : Tinned copper spiral shield
 Jacket : PUR
 Color : Grey (similar to RAL 7001)

Properties

Halogen free, flame resistance according to FT2
 Good property of flexibility, small bending radius
 Good performance of resistant to external EMI
 Extremely oil resistance, abrasion resistance and anti-hydrolysis
 Extremely resistant to bending and torsion
 Resistance to low and high temperature

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5930115	2X2X0.14	6.6	18.5	48
ZL5930116	4X2X0.14	7.2	25.7	62
ZL5930117	6X2X0.14	8.4	34.9	78
ZL5930118	10X2X0.14	10.4	55.4	112
ZL5930119	15X2X0.14	13.5	83.8	177
ZL5930120	2X2X0.20	7.2	23.5	57
ZL5930121	4X2X0.20	7.8	33.7	75
ZL5930122	6X2X0.20	9.1	46.2	94
ZL5930123	10X2X0.20	11.4	74.2	137
ZL5930124	15X2X0.20	14.8	111.9	218
ZL5930125	2X2X0.30	7.7	28.9	65
ZL5930126	4X2X0.30	8.5	43.5	89
ZL5930127	6X2X0.30	10.0	63.7	117
ZL5930128	10X2X0.30	12.9	97.1	178
ZL5930129	15X2X0.30	16.2	146.1	264
ZL5930130	2X2X0.50	8.5	39.5	80
ZL5930131	4X2X0.50	9.4	62.4	115

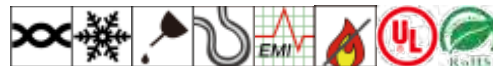
LONGFLEX™ Ethernet Cables
 Bus Cables
 Low-Frequency Data Cables
 Sensor Cables
 LONGFLEX™ Motion Control Cables
 Towing Cables
 Servo Cables
 Robot Cables
 High-temperature Cables
 Electrical Installation Cables
 Medical Cables
 Connection Technology
 Technical Data

Robot Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5930132	6X2X0.50	11.2	92.2	154
ZL5930133	10X2X0.50	14.5	148.8	243
ZL5930134	15X2X0.50	18.3	215.1	356
ZL5930135	2X2X0.75	10.2	57.8	110
ZL5930136	4X2X0.75	11.2	90.9	159
ZL5930137	6X2X0.75	13.8	133.8	226
ZL5930138	10X2X0.75	17.4	207.9	330

LONGFLEX™

LONGFLEX™ ROBOTIC HYBRID MULTIBUS



ZHAOLONG LONGFLEX™ ROBOTIC HYBRID MULTIBUS Interbus(2x0.25mm²)+Devicenet(2x0.34mm²)+(2X1.0mm²)+1.0mm² PUR ****m YY/MM/DD

Application

Extremely suitable for the system of robots. Power wire and data wires are combined within one cable. They are used in dress package of robots. Save enormous space and time of wiring for customers.



Technical Data

- Temperature Range
 - Fixed Application : -40°C ~80°C
 - Mobile Application : -30°C ~80°C
- Test Voltage
 - core /core : 1500V/min (AC)
 - core /shield : 1000V/min (AC)
- Characteristic Resistance(@1MHz)
 - Interbus : 100±15Ω
 - Profibus : 150±15Ω
 - Devicenet : 120±15Ω
- Insulation Resistance (20°C)
 - ≥100MΩ.km
- Rated voltage
 - UL/CSA 30V
- Minimum Bending Radius
 - Fixed Application : 5D(D=cable diameter)
 - Mobile Application : 12D(D=cable diameter)

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : Profibus(foamPE)
 Devicenet&Interbus(PE)
 Power core : TPE
 Shielded : Data pairs tinned copper braiding
 Jacket : PUR
 Color : Purple (similar to 4001)

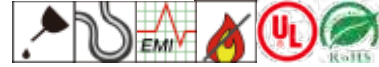
Properties

Halogen free, flame resistance according to IEC60332-1
 Good property of flexibility, small bending radius
 Good performance of resistant to external EMI
 Extremely oil resistance, abrasion resistance and anti-hydrolysis
 Extremely resistant to bending and torsion

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5901001	Interbus(2x0.25mm ²)+Devicenet(2x0.34mm ²)+(2X1.0mm ²)+1.0mm ²	10.5	65.0	135
ZL5901002	Interbus(2Px0.25mm ²)+Devicenet(2Px0.34mm ²)+(2PX1.0mm ²)+Profibus(2x0.29mm ²)+1.0mm ²	14.5	130.0	270

Robot Cables

LONGFLEX™ ROBOTIC HYBRID



ZHAOLONG LONGFLEX™ ROBOTIC HYBRID 10×10mm²+(2×3×1.5mm²) PUR ****m YY/MM/DD

Application

Extremely suitable for the system of industrial robots and manipulators. Be used connecting cable between high power servo motor and controller. Can be used in oil and wet environment of high electrical interference.



Technical Data

- Temperature Range
 - Fixed Application : -50°C ~80°C
 - Occasional movement : -30°C ~80°C
- Test Voltage
 - core /core : 4000V/min (AC)
 - core /shield : 3000V/min (AC)
- Insulation Resistance (20°C)
 - ≥100MΩ.km
- Rated voltage
 - UL/CSA 600V
 - DIN/VDE 450/750V
- Minimum Bending Radius
 - Fixed Application : 5D(D=cable diameter)

Cable Construction

- Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
- Insulation : TPE
- Insulation Color : According to DIN VDE 0293; black cores with white numerals; with Green/yellow
- Shielded : 1.5mm² cores tinned copper braiding, AL/Mylar and tinned copper overall shield
- Jacket : PUR Color : Black

Properties

- Halogen free, flame resistance according to IEC60332-1
- Good performance of resistant to external EMI
- Extremely oil resistance
- Abrasion resistance and anti-hydrolysis

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5901003	9×4.0mm ² +1G×6.0mm ² +(6×1.5mm ²)	22.5	625.0	950
ZL5901004	10×10mm ² +(2×3×1.5mm ²)	27.5	1150.0	1690

LONGFLEX™

LONGFLEX™ ROBOTIC HYBRID



ZHAOLONG LONGFLEX™ ROBOTIC HYBRID 23x1.0mm²+(2x1.0mm²) PUR ****m YY/MM/DD

Application

Extremely suitable for the system of robots. Power wire and data wires are combined within one cable. They are used in dress package of robots. Save enormous space and time of wiring for customers.



Technical Data

- Temperature Range
 - Fixed Application: -50°C ~80°C
 - Mobile Application : -30°C ~80°C
- Test Voltage
 - core /core : 2000V/min (AC)
 - core /shield : 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥10MΩ.km
- Rated voltage
 - UL/CSA 600V
 - DIN/VDE 450/750V
- Minimum Bending Radius
 - Fixed Application:
 - 5D(D=cable diameter)
 - Mobile Application:
 - 10D(D=cable diameter)

Cable Construction

- Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
- Insulation : TPE
- Insulation Color : One is yellow/green insulated wire, others are white insulated wire print black numerals
- Shielded : Center control pair tinned copper braiding
- Jacket : PUR
- Color : Black

Properties

- Halogen free, flame resistance according to IEC60332-1
- Good property of flexibility, small bending radiu
- Extremely oil resistance
- Abrasion resistance and anti-hydrolysis
- Extremely resistant to bending and torsion

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5901005	23x1.0mm ² + (2x1.0mm ²)	13.4	220.0	355

Robot Cables

LONGFLEX™ ROBOTIC HYBRID



ZHAOLONG LONGFLEX™ ROBOTIC HYBRID 23x1.0mm²+(2x1.0mm²) PUR ****m YY/MM/DD

Application

Extremely suitable for the system of robots. Power wire and data wires are combined within one cable. They are used in dress package of robots. Save enormous space and time of wiring for customers.



Technical Data

- Temperature Range
 - Fixed Application : -50°C ~80°C
 - Mobile Application : -30°C ~80°C
- Test Voltage
 - core /core : 2000V/min (AC)
 - core /shield : 2000V/min (AC)
- Insulation Resistance (20°C)
 - ≥100MΩ.km
- Rated voltage
 - UL/CSA 600V
 - DIN/VDE 450/750V
- Minimum Bending Radius
 - Fixed Application :
 - 5D(D=cable diameter)
 - Mobile Application :
 - 10D(D=cable diameter)

Cable Construction

- Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
- Insulation : TPE
- Insulation Color : One is yellow/green insulated wire, others are white insulated wire print black numberals
- Shielded : Control pair tinned copper braiding
- Jacket : PUR
- Color : Black

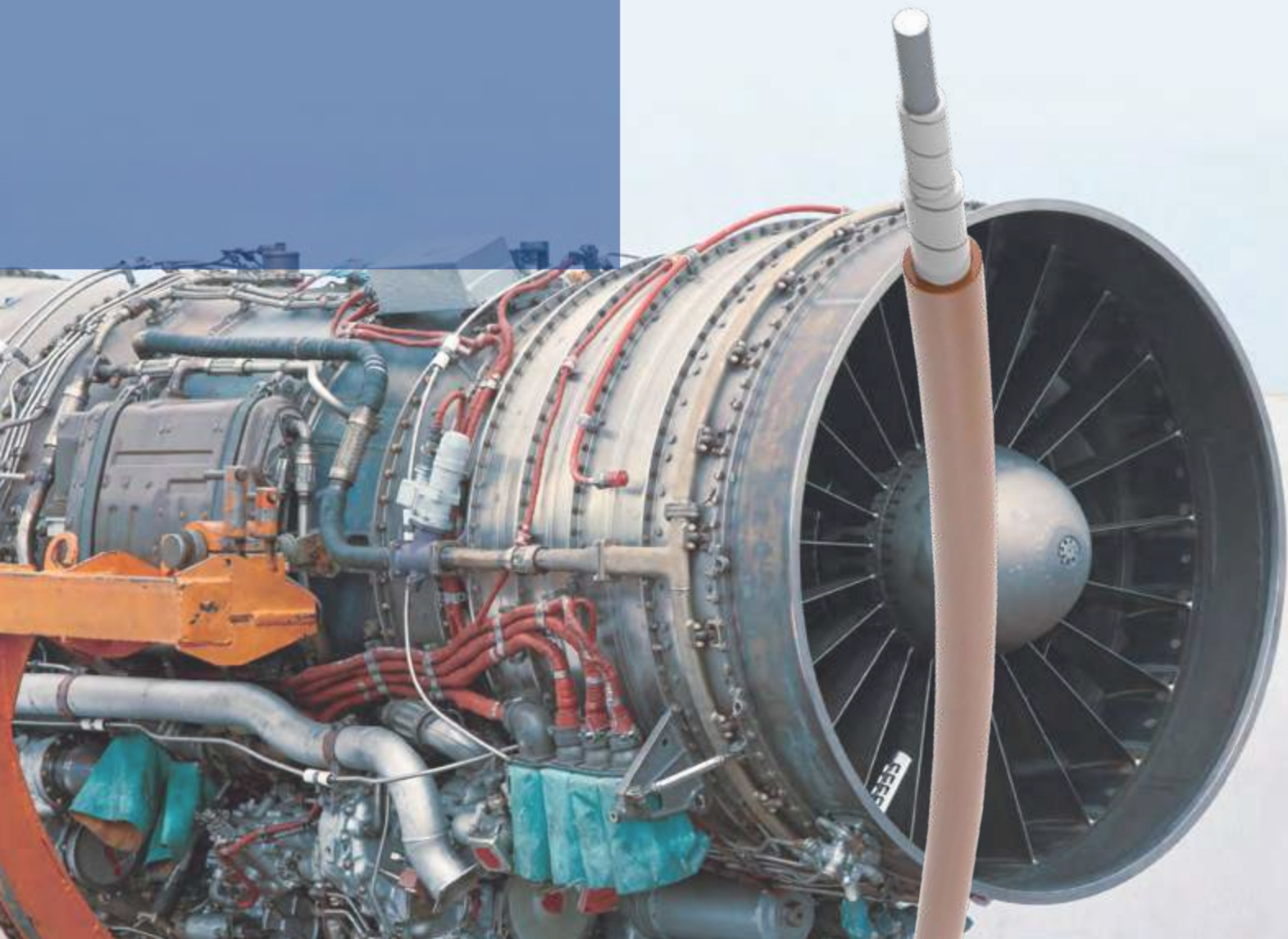
Properties

- Halogen free, flame resistance according to IEC60332-1
- Good property of flexibility, small bending radius
- Extremely oil resistance
- Abrasion resistance and anti-hydrolysis
- Extremely resistant to bending and torsion

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5901006	23x1.0mm ² + (2x1.0mm ²)	16.5	230.0	400

High-Temperature Cables

- Cables of different materials such as PVC, XLPO, FEP can meet different temperature grade use requirements.
- Products can be applied in aerospace, metallurgy and other different fields.
- Cables have excellent resistance to high and low temperatures, resistant to solvent and chemical stability.
- Our products are environment friendly, reaching the requirements of RoHS.



High-Temperature Cables

LONGHEAT™ SC 105 PVC



ZHAOLONG LONGHEAT™ SC 105 PVC 10AWG E324007 AWM 1015 105°C 600V VW-1 c AWM I A/B 105°C 600V FT1 ****m YY/MM/DD

Application

This cable is as control and connecting cable for electrical and mechanical equipments. It apply to Power distribution box or be used as electronic cable for transmission..Particularly suitable for installation in high temperature.



Technical Data

- Temperature Range
-20°C ~105°C
- Test Voltage
2000V/min (AC)
- Insulation Resistance (20°C)
≥20MΩ.km
- Rated voltage
600V
- Minimum Bending Radius
Fixed Application: 4D (D=cable diameter)
- Technical Certification
UL AWM 1015

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
 VDE 0295 class 5
 Insulation : PVC
 Insulation Color : Black (other colors are available)

Properties

Flame resistance according to VW-1/F11
 Good property of flexibility
 Small bending radius
 Resistant to high temperature

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5607001	20AWG	2.6	4.9	11.5
ZL5607002	18AWG	2.8	7.4	15.0
ZL5607003	16AWG	3.1	12.0	20.8
ZL5607004	14AWG	3.5	18.9	29.7
ZL5607005	12AWG	4.0	31.3	44.2
ZL5607006	10AWG	4.6	47.7	63.3
ZL5607007	8AWG	6.6	76.7	109.8
ZL5607008	6AWG	8.5	122.7	178.8
ZL5607009	4AWG	9.8	194.2	262.5

High-Temperature Cable

LONGHEAT™ MC 105 PVC



ZHAOLONG LONGHEAT™ MC 105 PVC 2X0.75mm² 105°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, engine, transformer, production lines in machinery production and in steel production. Intended for limited flexible use, and particularly suitable for installation in high temperature.



Technical Data

- Temperature Range
-20°C ~105°C
- Test Voltage
2500V/5min (AC)
- Insulation Resistance (20°C)
≥20MΩ.km
- Rated voltage
300/500V
- Minimum Bending Radius
Fixed Application:
4D(D=cable diameter)
Occasional movement :
15D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/
VDE 0295 class 5
Insulation : PVC
Insulation Color : According to DIN VDE 0293; black core wires
print with white numerical no.; yellow and green wires are
optional wires
Jacket : PVC
Color : Black (similar to RAL 9005)

Properties

Flame resistance according to IEC60332-1
Good property of flexibility, Small bending radius
Resistant to high temperature

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5607010	2 X 0.75	6.2	14.4	53
ZL5607011	3 G 0.75	6.5	21.6	62
ZL5607012	4 G 0.75	7.1	28.8	76
ZL5607013	5 G 0.75	8.0	36.0	95
ZL5607014	7 G 0.75	9.7	50.0	113
ZL5607015	2 X 1	6.5	19.2	61
ZL5607016	3 G 1	6.9	29.0	74
ZL5607017	4 G 1	7.7	38.4	89
ZL5607018	5 G 1	8.4	48.0	110
ZL5607019	7 G 1	10.2	67.0	130
ZL5607020	2 X 1.5	7.5	29.0	78
ZL5607021	3 G 1.5	8.1	43.2	98
ZL5607022	4 G 1.5	8.9	57.6	122
ZL5607023	5 G 1.5	10.0	72.0	144
ZL5607024	7 G 1.5	12.3	101.0	180

High-Temperature Cables

LONGHEAT™ SC 125 XLPO



ZHAOLONG LONGHEAT™ WDZ-BYJ-125℃ 450/750V 1X2.5 ZHAOLONG JB/T10491.3 *****m

Application

This cable is as control and connecting cable for electrical and mechanical equipments. It apply to High-end residential areas and office. Particularly suitable for installation in high temperature.

Technical Data

- Temperature Range
-40℃ -125℃
- Test Voltage
2500V/5min (AC)
- Insulation Resistance (70℃)
(see the table below)
- Rated voltage
450/750V
- Minimum Bending Radius
Fixed Application: 4D(D=cable diameter)
- Reference Standard
JB/T 10491.3



Cable Construction

Conductor : Solid bare copper;stranded bare copper for 10mm²
 Insulation : XLPO
 Insulation Color : Black(other colors are available)

Properties

Passed China CQC certification
 Flame resistance according to IEC60332-3-24 or IEC60332-1
 Resistant to high temperature
 Halogen free, Low smoke and environment-friendly

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502312	1.5	2.8	13.3	20.1	0.011
ZL5502313	2.5	3.3	22.2	31.7	0.009
ZL5502314	4	3.8	35.4	49.6	0.0077
ZL5502315	6	4.3	53.3	66.7	0.0065
ZL5502316	10	6.0	91.0	117.2	0.0065

High-Temperature Cable

LONGHEAT™ MC 125 XLPO



ZHAOLONG LONGHEAT™ MC 125 XLPO 2X0.75mm² 125°C 300/500V IEC60332-1 ****m YY/MM/DD

Application

Can be used as control cables in tool machines, engine, transformer, production lines in machinery production and in steel production. Intended for limited flexible use, and particularly suitable for installation in high temperature.



Technical Data

- Temperature Range
-20°C ~125°C
- Test Voltage
2500V/5min (AC)
- Insulation Resistance (20°C)
≥20MΩ.km
- Rated voltage
300/500V
- Minimum Bending Radius
Fixed Application:
4D(D=cable diameter)
Occasional movement :
15D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper, according to IEC 60228/ VDE 0295 class 5
Insulation : Irradiation crosslinked polyolefin
Insulation Color : According to DIN VDE 0293; black core wires print with white numerical no.; yellow and green wires are optional wires
Jacket : Irradiation crosslinked polyolefin
Color : Black (similar to RAL 9005)

Properties

Flame resistance according to IEC60332-1
Good property of flexibility, small bending radius
Resistant to high temperature

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5607025	2 X 0.5	6.0	9.6	38
ZL5607026	3 G 0.5	6.3	14.4	46
ZL5607027	2 X 0.75	6.4	14.4	40
ZL5607028	3 G 0.75	6.8	21.6	53
ZL5607029	4 G 0.75	7.4	28.8	69
ZL5607030	5 G 0.75	8.3	36.0	86
ZL5607031	7 G 0.75	9.0	50.0	127
ZL5607032	2 X 1	6.6	19.2	50
ZL5607033	3 G 1	7.0	28.8	67
ZL5607034	4 G 1	7.8	38.4	87
ZL5607035	5 G 1	8.6	48.0	107
ZL5607036	7 G 1	9.5	67.0	152
ZL5607037	12 G 1	12.8	115.0	221
ZL5607038	2 X 1.5	7.6	29.0	71
ZL5607039	3 G 1.5	8.3	43.0	96
ZL5607040	4 G 1.5	9.0	58.0	123
ZL5607041	5 G 1.5	10.1	72.0	156
ZL5607042	7 G 1.5	11.2	101.0	224
ZL5607043	12 G 1.5	15.1	173.0	316
ZL5607044	2 X 2.5	9.0	48.0	102
ZL5607045	3 G 2.5	9.8	72.0	145
ZL5607046	4 G 2.5	10.8	96.0	189
ZL5607047	5 G 2.5	11.9	120.0	235

High-Temperature Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5607048	7 G 2.5	13.2	168.0	344
ZL5607049	4 G 4	12.7	154.0	276
ZL5607050	5 G 4	14.0	192.0	334
ZL5607051	4 G 6	14.1	230.0	341
ZL5607052	5 G 6	15.8	288.0	431

High-Temperature Cable

LONGHEAT™ SC 205 FEP



Application

Be used as connecting cable in aerospace, industrial electronic equipments and high-end consumer electronic equipments. Particularly suitable for the area with high requirements of low and high temperature.



Technical Data

- Temperature Range
-60°C ~205°C
- Conductor Resistance
14AWG ≤ 10 Ω/km
30AWG ≤ 377 Ω/km
32AWG ≤ 589 Ω/km
34AWG ≤ 1000 Ω/km
- Rated voltage
30V

Cable Construction

Conductor : Stranded tinned copper
Insulation : FEP

Properties

Good properties of resistance to high and low temperature as well as excellent chemical stability
They are particularly designed for especially high temperature working environment and can ensure to maintain its good performance

Item NO.	Spec.	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5601001	30AWG	0.50	0.50	0.78
ZL5601002	32AWG	0.38	0.32	0.47
ZL5601003	32AWG	0.42	0.32	0.53
ZL5601004	34AWG	0.32	0.18	0.30
ZL5601005	34AWG	0.36	0.18	0.35
ZL5601006	14AWG	2.43	2.00	25.00

High-Temperature Cables

LONGHEAT™ SC 250 PFA



Application

Be used as connecting cable in aerospace, industrial electronic equipments and high-end consumer electronic equipments. Particularly suitable for the area with high requirements of low and high temperature.



Cable Construction

Conductor : Stranded alloy wire
 Insulation : PFA

Properties

Good properties of resistance to high and low temperature as well as excellent chemical stability
 They are particularly designed for especially high temperature working environment and can ensure to maintain its good performance

Technical Data

- Temperature Range
-60°C ~250°C
- Conductor Resistance
32AWG ≤ 589 Ω/km
34AWG ≤ 1000 Ω/km
36AWG ≤ 1600 Ω/km
- Rated voltage
30V

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL5601007	32AWG	0.38	0.65	0.96
ZL5601008	34AWG	0.28	0.36	0.52
ZL5601009	36AWG	0.26	0.23	0.40

Electrical Installation Cables

- Our electrical installation cables can totally meet the national standard requirements, ceiving CQC supervised sampling inspection and the supervision of commodity inspection.
- We refuse to use low-quality copper wires or to produce nonstandard cables not according to the laws or national policies.
- We produce products of national standard with sufficient meters and sectional area.
- Our products are environment friendly, reaching the requirements of RoHS.



Electrical Installation Cables

H05VV-F



ZHAOLONG INDUSTRIAL CABLE H05VV-F 300/500V 2X0.75mm² ****m YY/MM/DD

Application

This cable is used as control and connecting cables for electrical equipment. It apply to machine tool and complete sets of equipment for fixed installation or occasional movement.



Technical Data

- Temperature Range
-15°C ~70°C
- Test Voltage
2000/5min (AC)
- Insulation Resistance (70°C)
(see the table below)
- Rated voltage
300/500V
- Minimum bending radius
Fixed application: 6D(D=cable diameter)
Occasional movement : 15D(D=cable diameter)
- Reference Standard
EN50525-2-11

Cable Construction

- Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 5
- Insulation : PVC
- Insulation Color : Meeting EN 50525-1
- Jacket : PVC
- Insulation : Black

Properties

- Flame resistance according to IEC60332-1
- Good property of flexibility
- High quality, long durability

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502291	2×0.75	6.3	14	56.2	0.011
ZL5502292	3×0.75	6.7	20.9	67.7	0.011
ZL5502293	4×0.75	7.3	27.9	81.9	0.011
ZL5502294	5×0.75	8.1	34.9	100.0	0.011
ZL5502295	2×1.0	6.7	18.6	65.6	0.010
ZL5502296	3×1.0	7.1	27.9	79.8	0.010
ZL5502297	4×1.0	8.0	37.2	100.8	0.010
ZL5502298	5×1.0	8.7	46.5	118.6	0.010
ZL5502299	2×1.5	7.7	27.3	88.4	0.010
ZL5502300	3×1.5	8.4	40.9	112.3	0.010
ZL5502301	4×1.5	9.4	54.5	141.5	0.010
ZL5502302	5×1.5	10.4	68.2	171.6	0.010
ZL5502303	2×2.5	9.3	44.5	133.1	0.0095
ZL5502304	3×2.5	10.1	66.8	169.0	0.0095
ZL5502305	4×2.5	11.0	89.1	207.1	0.0095
ZL5502306	5×2.5	12.2	111.4	251.0	0.0095
ZL5502307	2×4.0	10.7	44.5	158.1	0.0078
ZL5502308	3×4.0	11.6	66.8	196.2	0.0078
ZL5502309	4×4.0	12.7	89.1	238.0	0.0078
ZL5502310	5×4.0	14.2	111.4	293.0	0.0078

Electrical Installation Cables

H03VV-F



ZHAOLONG INDUSTRIAL CABLE H03VV-F 300/300V 2X0.75mm² ****m YY/MM/DD

Application

This cable is used as control and connecting cables for electrical equipment. It apply to machine tool and complete sets of equipment for fixed installation or occasional movement.



Technical Data

- Temperature Range
-15°C ~70°C
- Test Voltage
2000/5min (AC)
- Insulation Resistance (70°C)
(see the table below)
- Rated voltage
300/300V
- Minimum bending radius
Fixed application: 6D(D=cable diameter)
Occasional movement : 15D(D=cable diameter)
- Reference Standard
EN50525-2-11

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 5
Insulation : PVC
Insulation Color : according to EN 50525-1
Jacket : PVC
Insualtion : Black

Properties

Flame resistance according to IEC60332-1
Good property of flexibility
High quality, long durability

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502285	2×0.5	5.1	9.3	36.9	0.011
ZL5502286	3×0.5	5.4	14.0	44.6	0.011
ZL5502287	4×0.5	5.9	18.6	54.1	0.011
ZL5502288	2×0.75	5.9	14.0	50.5	0.010
ZL5502289	3×0.75	6.3	20.9	61.7	0.010
ZL5502290	4×0.75	6.9	27.9	75.4	0.010

Electrical Installation Cables

H05V-K, H07V-K



ZHAOLONG INDUSTRIAL CABLE H07V-K 450/750V 1.5mm² ****m YY/MM/DD

Application

This cable is suitable for controlling and connecting electrical equipments and used as control and connecting cable in mechanical equipments. It apply to Power distribution box or be used as electronic cable for transmission.



Technical Data

- Temperature Range
-15°C -70°C
- Test Voltage
H05V-K 2000/5min (AC)
H07V-K 2500/5min (AC)
- Insulation Resistance (70°C)
(see the table below)
- Rated voltage
H05V-K 300/500V
H07V-K 450/750V
- Reference Standard
EN 50525-2-31

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 5
 Insulation : PVC
 Insulation Colo : Black, other colors are available

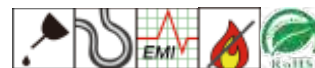
Properties

Flame resistance according to IEC60332-1
 Good property of flexibility
 High quality, long durability

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
H05V-K					
ZL5502267	0.5	2.1	4.4	9.0	0.013
ZL5502268	0.75	2.3	6.6	12.0	0.011
ZL5502269	1.0	2.5	8.9	14.8	0.01
H07V-K					
ZL5502270	1.5	3.0	13.5	21	0.010
ZL5502271	2.5	3.6	22.1	33	0.095
ZL5502272	4	4.2	36.3	50	0.0078
ZL5502273	6	4.8	54.4	71	0.0068
ZL5502274	10	6.1	92.2	119	0.0065
ZL5502275	16	7.2	145.2	178	0.0053
ZL5502276	25	8.8	225.8	275	0.0050
ZL5502277	35	10.0	321.4	380	0.0043
ZL5502278	50	11.7	436.6	516	0.0042
ZL5502279	70	13.5	630.0	727	0.0036
ZL5502280	95	15.8	864.0	995	0.0036
ZL5502281	120	17.2	1080.0	1227	0.0032
ZL5502282	150	19.2	1368.0	1552	0.0032
ZL5502283	185	21.5	1682.9	1912	0.0032
ZL5502284	240	24.4	2194.1	2484	0.0031

Electrical Installation Cables

RVVYP



CCC A111033 浙江兆龙互连科技股份有限公司 60227 IEC 74(RVVYP) 2X0.75mm² 300/500V ****m

Application

This cable is used as control and connecting cables for electrical equipment. It apply to machine tool and complete sets of equipment for fixed installation or occasional movement. Suitable for oil environment with high electrical interference.



Technical Data

- Temperature Range
60227 IEC 75 (RVVYP) -15°C ~70°C
- Test Voltage
2000/5min (AC)
- Insulation Resistance (70°C)
(see the table below)
- Rated voltage
300/500V
- Minimum bending radius
Fixed application:
6D(D=cable diameter)
Occasional movement :
15D(D=cable diameter)
- Reference Standard
GB/T5023.7
IEC60227-7

Cable Construction

- Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 5
- Insulation : PVC
- Insulation Color : according to GB/T5023.1
- Inner Jacket : PVC
- Shield : Tinned copper braided
- Jacket : PVC
- Insulation : Black

Properties

- Passed China compulsory product certification
- Flame resistance according to IEC60332-1
- Good property of flexibility
- Oil resistance
- Good performance of resistant to external EMI
- High quality, long durability

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502222	2x0.5	7.9	29.9	94.8	0.013
ZL5502223	2x0.75	8.3	36.0	107.9	0.011
ZL5502224	2X1.0	8.7	42.0	121.0	0.010
ZL5502225	2x1.5	9.8	54.0	154.7	0.010
ZL5502226	2x2.5	11.5	86.5	219.8	0.009
ZL5502227	3x0.5	8.2	35.7	106.6	0.013
ZL5502228	3x0.75	8.7	44.3	121.6	0.011
ZL5502229	3X1.0	9.3	52.7	142.5	0.010
ZL5502230	3x1.5	10.3	69.3	178.2	0.010
ZL5502231	3x2.5	12.0	111.6	257.0	0.009
ZL5502232	4x0.5	8.8	42.3	121.5	0.013
ZL5502233	4x0.75	9.5	53.5	144.7	0.011
ZL5502234	4X1.0	9.9	64.4	165.5	0.010
ZL5502235	4x1.5	11.4	96.4	225.5	0.010
ZL5502236	4x2.5	13.4	139.4	310.9	0.009
ZL5502237	5x0.5	9.6	49.1	141.7	0.013
ZL5502238	5x0.75	10.3	72.4	175.0	0.011
ZL5502239	5X1.0	11.0	86.4	204.6	0.010
ZL5502240	5x1.5	12.7	115.1	270.1	0.010
ZL5502241	5x2.5	14.6	166.7	371.1	0.009

Electrical Installation Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502242	6x0.5	10.2	56.0	156.7	0.013
ZL5502243	6x0.75	11.2	82.7	198.9	0.011
ZL5502244	6X1.0	11.8	99.3	226.8	0.010
ZL5502245	6x1.5	13.6	133.0	301.0	0.010
ZL5502246	6x2.5	15.9	194.2	422.9	0.009
ZL5502247	12x0.5	13.6	106.1	275.6	0.013
ZL5502248	12x0.75	14.5	138.4	325.0	0.011
ZL5502249	12X1.0	15.5	170.1	379.6	0.010
ZL5502250	12x1.5	17.8	248.6	517.7	0.010
ZL5502251	12x2.5	21.0	369.8	741.3	0.009
ZL5502252	18x0.5	15.6	157.6	375.2	0.013
ZL5502253	18x0.75	17.1	206.0	462.1	0.011
ZL5502254	18X1.0	18.0	253.5	532.6	0.010
ZL5502255	18x1.5	20.9	347.0	723.8	0.010
ZL5502256	18x2.5	24.7	522.5	1040.6	0.009
ZL5502257	36x0.5	20.8	268.0	661.7	0.013
ZL5502258	36x0.75	22.5	361.1	808.2	0.011
ZL5502259	36X1.0	24.0	453.0	953.6	0.010
ZL5502260	36x1.5	28.3	671.9	1358.0	0.010
ZL5502261	36x2.5	33.4	1021.1	1955.9	0.009
ZL5502262	60x0.5	26.3	444.8	1068.9	0.013
ZL5502263	60x0.75	28.4	600.0	1306.3	0.011
ZL5502264	60X1.0	30.2	753.2	1541.4	0.010
ZL5502265	60x1.5	34.9	1048.8	2082.8	0.010
ZL5502266	60x2.5	40.8	1616.9	2992.9	0.009

Electrical Installation Cables

RVVY



CCC A111033 浙江兆龙互连科技股份有限公司 60227 IEC 75(RVVY) 2X0.75mm² 300/500V ****m

Application

This cable is used as control and connecting cables for electrical equipment. It apply to machine tool and complete sets of equipment for fixed installation or occasional movement. Suitable for oil environment.



Technical Data

- Temperature Range
60227 IEC 75 (RVVY) -15°C ~70°C
- Test Voltage
2000/5min (AC)
- Insulation Resistance (70°C)
(see the table below)
- Rated voltage
300/500V
- Minimum bending radius
Fixed application :
6D(D=cable diameter)
Occasional movement :
15D(D=cable diameter)
- Reference Standard
GB/T5023.7
IEC60227-7

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 5
Insulation : PVC
Insulation Color : According to GB/T5023
Jacket : PVC
Insulation : Black

Properties

Passed China compulsory product certification
Flame resistance according to IEC60332-1
Good property of flexibility
Oil resistance
High quality, long durability

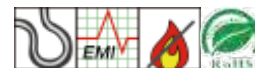
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502052	2x0.5	5.7	9.4	37.0	0.013
ZL5502053	2x0.75	6.3	14.1	47.1	0.011
ZL5502054	2X1.0	6.7	18.8	56.5	0.010
ZL5502055	2x1.5	7.7	27.5	73.5	0.010
ZL5502056	2x2.5	9.1	45.0	108.4	0.009
ZL5502177	3x0.5	6.0	14.1	47.2	0.013
ZL5502178	3x0.75	6.7	21.2	60.8	0.011
ZL5502179	3X1.0	7.1	28.2	73.2	0.010
ZL5502180	3x1.5	8.4	41.3	101.0	0.010
ZL5502181	3x2.5	9.9	67.5	149.4	0.009
ZL5502182	4x0.5	6.8	18.8	61.5	0.013
ZL5502183	4x0.75	7.3	28.2	75.2	0.011
ZL5502184	4X1.0	7.7	37.6	90.7	0.010
ZL5502185	4x1.5	9.1	55.1	125.8	0.010
ZL5502186	4x2.5	11.0	90.0	192.6	0.009
ZL5502187	5x0.5	7.3	23.5	72.6	0.013
ZL5502188	5x0.75	8.1	35.3	93.3	0.011
ZL5502189	5X1.0	8.7	47.0	112.8	0.010
ZL5502190	5x1.5	10.2	68.9	156.1	0.010
ZL5502191	5x2.5	12.0	112.5	231.7	0.009

Electrical Installation Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop. weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502192	7x0.5	8.6	32.9	98.2	0.013
ZL5502193	7x0.75	9.2	49.4	125.7	0.011
ZL5502194	7X1.0	9.5	65.8	151.0	0.010
ZL5502195	7x1.5	11.3	96.4	214.3	0.010
ZL5502196	7x2.5	13.9	157.4	318.7	0.009
ZL5502197	12x0.5	11.0	56.4	162.7	0.013
ZL5502198	12x0.75	11.9	84.6	202.9	0.011
ZL5502199	12X1.0	12.8	112.8	248.5	0.010
ZL5502200	12x1.5	15.0	165.2	346.2	0.010
ZL5502201	12x2.5	18.0	269.9	524.2	0.009
ZL5502202	18x0.5	13.0	84.6	233.3	0.013
ZL5502203	18x0.75	14.3	126.9	299.4	0.011
ZL5502204	18X1.0	15.2	169.2	359.0	0.010
ZL5502205	18x1.5	17.9	247.9	508.6	0.010
ZL5502206	18x2.5	21.7	404.8	779.3	0.009
ZL5502207	36x0.5	17.8	169.2	447.2	0.013
ZL5502208	36x0.75	19.5	253.8	573.2	0.011
ZL5502209	36X1.0	21.0	338.4	700.7	0.010
ZL5502210	36x1.5	24.9	495.7	999.3	0.010
ZL5502211	36x2.5	29.9	809.7	1518.4	0.009
ZL5502212	48x0.5	20.7	225.6	592.6	0.013
ZL5502213	48x0.75	22.6	338.4	758.5	0.011
ZL5502214	48X1.0	24.3	451.2	926.3	0.010
ZL5502215	48x1.5	28.7	660.9	1316.8	0.010
ZL5502216	48x2.5	34.3	1079.5	1984.2	0.009
ZL5502217	60x0.5	22.7	282.0	727.8	0.013
ZL5502218	60x0.75	25.0	423.0	944.0	0.011
ZL5502219	60X1.0	26.8	564.0	1151.4	0.010
ZL5502220	60x1.5	31.6	826.2	1632.7	0.010
ZL5502221	60x2.5	37.4	1349.4	2426.2	0.009

Electrical Installation Cables

RVVP



CCC A111033 浙江兆龙互连科技股份有限公司 RVVP 2X0.75mm² 300/300V ****m

Application

This cable is used as control and connecting cables for electrical equipment. It apply to machine tool and complete sets of equipment for fixed installation or occasional movement. Suitable for the place of high electrical interference.



Technical Data

- Temperature Range
-15°C ~70°C
- Test Voltage
2000/5min (AC)
- Insulation Resistance (70°C)
(see the table below)
- Rated voltage
300/300V
- Minimum bending radius
Fixed application :
6D(D=cable diameter)
Occasional movement :
15D(D=cable diameter)
- Reference Standard
JB/T8734.5

Cable Construction

- Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 5
- Jacket : PVC
- Insulation Color : according to JB/T8734.1
- Shield : Tinned copper braiding
- Jacket : PVC
- Color : Black

Properties

- Passed China compulsory product certification
- Flame resistance according to IEC60332-1
- Good property of flexibility
- Good performance of resistant to external EMI
- High quality, long durability

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502129	1X0.20	2.8	6.5	12.5	0.013
ZL5502130	1X0.50	3.3	10.7	19.3	0.012
ZL5502131	1X0.75	3.5	13.6	23.0	0.010
ZL5502132	1X1.0	4.3	17.0	32.4	0.010
ZL5502133	1X1.5	4.6	22.0	39.1	0.009
ZL5502134	1X2.5	5.4	38.0	60.3	0.008
ZL5502135	2X0.20	4.6	12.3	28.3	0.013
ZL5502136	2X0.40	5.7	24.7	47.5	0.013
ZL5502137	3X0.20	5.0	19.9	38.9	0.013
ZL5502138	3X0.40	5.9	29.7	56.5	0.013
ZL5502139	4X0.2	5.4	23.3	45.2	0.013
ZL5502140	4X0.4	6.4	35.6	66.9	0.013
ZL5502141	5X0.2	5.8	26.8	51.8	0.013
ZL5502142	5X0.4	6.9	41.6	77.7	0.013
ZL5502143	7X0.2	6.2	32.3	62.2	0.013
ZL5502144	7X0.4	7.9	51.5	102.5	0.013
ZL5502145	10X0.2	8.0	43.8	89.4	0.013
ZL5502146	10X0.4	9.9	82.4	148.5	0.013
ZL5502147	12X0.2	8.2	48.4	98.6	0.013
ZL5502148	12X0.4	10.2	91.5	165.2	0.013
ZL5502149	2X0.5	5.8	25.8	49.5	0.012

Electrical Installation Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502150	3X0.5	6.1	31.4	60.6	0.012
ZL5502151	4X0.5	7.1	38.2	77.5	0.012
ZL5502152	5X0.5	7.6	48.7	93.8	0.012
ZL5502153	7X0.5	8.2	60.6	113.9	0.012
ZL5502154	9X0.5	9.5	76.1	140.4	0.012
ZL5502155	10X0.5	10.5	95.6	171.1	0.012
ZL5502032	2X0.75	6.3	31.7	57.3	0.010
ZL5502156	3X0.75	6.6	40.1	70.6	0.010
ZL5502157	4X0.75	7.6	49.4	93.0	0.010
ZL5502158	5X0.75	8.2	63.1	113.1	0.010
ZL5502159	7X0.75	9.2	80.0	139.6	0.010
ZL5502160	10X0.75	11.6	124.2	214.1	0.010
ZL5502063	2x1.0	7.0	40.1	75.0	0.010
ZL5502064	3x1.0	7.8	50.4	91.8	0.010
ZL5502065	4x1.0	8.7	64.1	124.2	0.010
ZL5502161	5x1.0	9.4	79.5	147.9	0.010
ZL5502162	7X1.0	11.0	103.5	202.4	0.010
ZL5502163	10X1.0	13.1	156.8	270.4	0.010
ZL5502164	2X1.5	8.0	52.8	97.4	0.009
ZL5502165	3X1.5	8.6	77.9	130.6	0.009
ZL5502166	4X1.5	9.4	87.2	154.6	0.009
ZL5502167	5X1.5	10.4	104.5	185.6	0.009
ZL5502168	7X1.5	12.0	148.8	253.6	0.009
ZL5502169	10X1.5	14.4	206.6	340.4	0.009
ZL5502170	2X2.5	9.6	77.7	144.3	0.009
ZL5502171	3X2.5	10.2	102.5	182.1	0.009
ZL5502066	4X2.5	11.1	128.9	221.6	0.009
ZL5502172	5X2.5	12.5	170.1	284.7	0.009
ZL5502173	7X2.5	14.5	220.9	364.1	0.009
ZL5502174	10X2.5	17.1	308.5	495.2	0.009
ZL5502175	2X4.0	11.8	126.9	225.2	0.007
ZL5502176	3X4.0	12.5	167.4	283.4	0.007

Electrical Installation Cables

RVV



CCC A111033 浙江兆龙互连科技股份有限公司 60227 IEC 52(RVV) 2X0.5mm² 300/300V ****m

Application

This cable is used as control and connecting cables for electrical equipment. It apply to machine tool and complete sets of equipment for fixed installation or occasional movement.



Technical Data

- Temperature Range
 - 60227 IEC 52 (RVV) -15°C ~70°C
 - 60227 IEC 53 (RVV) -15°C ~70°C
 - 60227 IEC 56 (RVV-90) -15°C ~90°C
 - 60227 IEC 57 (RVV-90) -15°C ~90°C
- Test Voltage
 - 2000/5min (AC)
- Insulation Resistance (70°C)
 - (see the table below)
- Rated voltage
 - 60227 IEC 52 (RVV) 300/300V
 - 60227 IEC 53 (RVV) 300/500V
 - 60227 IEC 56 (RVV-90) 300/300V
 - 60227 IEC 57 (RVV-90) 300/500V
- Minimum bending radius
 - Fixed application : 6D(D=cable diameter)
 - Occasional movement : 15D(D=cable diameter)
- Reference Standard
 - GB/T5023.5,IEC60227-5

Cable Construction

- Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 5
- Insulation : PVC
- Insulation Color : According to GB/T5023.1
- Insulation : PVC
- Insulation : Black

Properties

- Passed China compulsory product certification
- Flame resistance according to IEC60332-1
- Good property of flexibility
- High quality, long durability

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
60227 IEC 52(RVV) 300/300V					
ZL5502057	2x0.50	5.1	9.4	35.9	0.012
ZL5502058	2x0.75	5.5	14.1	43.4	0.010
ZL5502096	3x0.50	5.4	14.1	47.8	0.012
ZL5502097	3x0.75	5.8	21.2	58.4	0.010
60227 IEC 53(RVV) 300/500V					
ZL5502098	2x0.75	6.2	13.7	48.1	0.011
ZL5502035	2x1.0	6.6	18.8	56.2	0.010
ZL5502060	2x1.5	7.2	27.5	72.9	0.010
ZL5502061	2x2.5	9.2	45.0	112.7	0.009
ZL5502099	3x0.75	6.6	21.2	62.1	0.011
ZL5502100	3x1.0	7.0	28.2	72.5	0.010
ZL5502101	3x1.5	8.3	41.3	104.0	0.010
ZL5502034	3x2.5	10.0	67.5	153.4	0.009
ZL5502102	4x0.75	7.2	28.2	76.5	0.011
ZL5502062	4x1.0	7.8	37.6	94.1	0.010
ZL5502103	4x1.5	9.2	55.1	128.9	0.010
ZL5502104	4x2.5	10.9	90.0	190.3	0.009

Electrical Installation Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
ZL5502105	5x0.75	8.1	35.3	93.4	0.011
ZL5502106	5x1.0	8.6	47.0	111.1	0.010
ZL5502107	5x1.5	10.2	68.9	158.5	0.010
ZL5502108	5x2.5	11.2	112.5	233.8	0.009
60227 IEC 56(RVV) 300/300V					
ZL5502109	2x0.50	5.0	9.1	34.7	0.012
ZL5502110	2x0.75	5.5	13.7	42.0	0.010
ZL5502111	3x0.50	5.3	13.7	46.2	0.012
ZL5502112	3x0.75	5.8	20.5	56.5	0.010
60227 IEC 57(RVV) 300/500V					
ZL5502113	2x0.75	6.3	13.7	48.8	0.011
ZL5502114	2x1.0	6.6	18.3	55.5	0.010
ZL5502115	2x1.5	7.5	26.7	72.4	0.010
ZL5502116	2x2.5	9.2	43.7	109.5	0.009
ZL5502117	3x0.75	6.6	20.5	61.9	0.011
ZL5502118	3x1.0	7.0	27.4	72.0	0.010
ZL5502119	3x1.5	8.2	40.1	100.9	0.010
ZL5502120	3x2.5	10.0	65.5	151.4	0.009
ZL5502121	4x0.75	7.2	27.4	76.1	0.011
ZL5502122	4x1.0	7.8	36.5	93.0	0.010
ZL5502123	4x1.5	9.2	53.5	127.8	0.010
ZL5502124	4x2.5	10.9	87.3	187.7	0.009
ZL5502125	5x0.75	8.0	33.6	91.7	0.011
ZL5502126	5x1.0	8.6	45.6	109.7	0.010
ZL5502127	5x1.5	10.2	66.8	156.4	0.010
ZL5502128	5x2.5	12.2	109.2	230.6	0.009

Electrical Installation Cables

RV



CCC A111033 浙江兆龙互连科技股份有限公司 60227 IEC 02(RV) 1.5mm² 450/750V ****m

Application

This cable is suitable for controlling and connecting electrical equipments and used as control and connecting cable in mechanical equipments. It apply to Power distribution box or be used as electronic cable for transmission.



Technical Data

—Temperature Range

60227 IEC 02 (RV) -15°C ~70°C

60227 IEC 06 (RV) -15°C ~70°C

60227 IEC 08 (RV-90) -15°C ~90°C

—Test Voltage

60227 IEC 02 (RV) 2500/5min (AC)

60227 IEC 06 (RV) 2000/5min (AC)

60227 IEC 08 (RV-90) 2000/5min (AC)

—Insulation Resistance (70°C)

(see the table below)

—Rated voltage

60227 IEC 02 (RV) 450/750V

60227 IEC 06 (RV) 300/500V

60227 IEC 08 (RV-90) 300/500V

—Reference Standard

GB/T5023.3, IEC60227-3

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 5

Insulation : PVC

Insulation : Black, other colors are available

Properties

Passed China compulsory product certification

Flame resistance according to IEC60332-1

Good property of flexibility

High quality, long durability

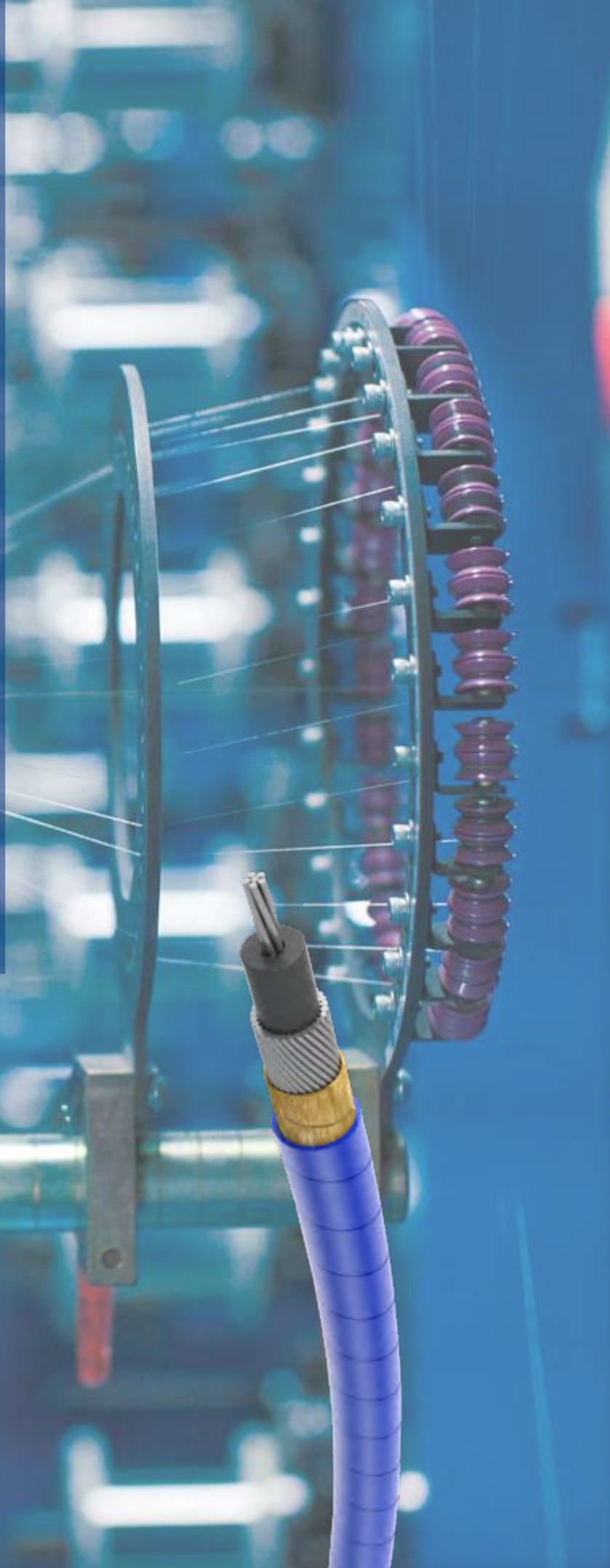
Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
60227 IEC 06(RV) 300/500V					
ZL5502001	0.5	2.1	4.4	9.0	0.013
ZL5502074	0.75	2.3	6.6	12.0	0.011
ZL5502075	1.0	2.5	8.9	14.8	0.01
60227 IEC 02(RV) 450/750V					
ZL5502076	1.5	3.0	13.5	21	0.010
ZL5502077	2.5	3.6	22.1	33	0.009
ZL5502078	4	4.2	36.3	50	0.007
ZL5502079	6	4.8	54.4	71	0.006
ZL5502080	10	6.1	92.2	119	0.0056
ZL5502081	16	7.2	145.2	178	0.0046
ZL5502082	25	8.8	225.8	275	0.0044
ZL5502083	35	10.0	321.4	380	0.0038
ZL5502084	50	11.7	436.6	516	0.0037
ZL5502085	70	13.5	630.0	727	0.0032
ZL5502086	95	15.8	864.0	995	0.0032
ZL5502087	120	17.2	1080.0	1227	0.0029
ZL5502088	150	19.2	1368.0	1552	0.0029
ZL5502089	185	21.5	1682.9	1912	0.0029
ZL5502090	240	24.4	2194.1	2484	0.0028

Electrical Installation Cables

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)	Insulation resistance (MΩ.km)
60227 IEC 08(RV-90) 300/500V					
ZL5502091	0.5	2.1	4.7	9.1	0.013
ZL5502092	0.75	2.3	7.1	12.1	0.012
ZL5502093	1.0	2.5	9.4	15.0	0.010
ZL5502094	1.5	3.0	13.8	21.6	0.009
ZL5502095	2.5	3.6	22.5	33.6	0.009

Medical Cables

- A variety of medical equipment lines, including ultrasound equipment probe line, endoscope line, medical flexible RF line, high temperature low loss medical coaxial line.
- Cable has excellent mechanical properties, such as: bending resistance, anti-electromagnetic interference and anti torsion.
- The cable has good resistance to electromagnetic interference.
- Our products are environment friendly, reaching the requirements of RoHS.



Medical Cables

Probe cable for ultrasound equipment

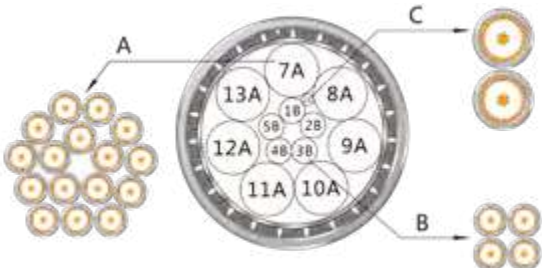


Application

Used in ultrasound equipment

Technical Data

- Temperature Ranges
-15°C ~80°C
- Characteristic Impedance
50±5Ω
- Center conductor Resistance
≥5000MΩ/km
- Dielectric Strength
AC500V
1min
- Capacitance
1KHz : 110±20nF/m
- Insulation Resistance
Min1000MΩ.km
- Attenuation
Max : 0.61db/m
- Rated Voltage
30V



Cable Construction

- Conductor : Stranded alloy wire
- Insulation : Fluoroplastic
- Tape : PET
- Shield1 : Alloy wire Jacket1 : PET
- Shield2 : Alloy wire Jacket2 : Please see attached list

Properties

This micro-coaxial cable, with excellent performance of resistant to bending and twisting, anti-EMI and perfect high speed signal transmission
Flame resistance

Item NO.	Spec.	Outer Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL6103001	7x16x40AWG+5x4x40AWG +2x40AWG	PVC	8.00	31.5	68.0

Medical Cables

Endoscope cable



Application

This cable is used to connect the endoscopes and other medical facilities to examine organs of human.

Technical Data

- Temperature Ranges
-15°C ~80°C
- Characteristic Impedance
50±5Ω
- Dielectric Strength
AC500V
1min
- Conductor Resistance
(20°C) ≤7500Ω/km
- Insulation Resistance
1000MΩ·km
- Minimum Bending Radius
15xcable diameter



Cable Construction

- Conductor : Stranded alloy wire
- Insulation : Fluoroplastic
- Shield1 : Tinned copper alloy Jacket1 : PET tape
- Shield2 : Cu metalized polyester tape Jacket2 : PET
- Shield3 : Tinned copper Jacket3 : PET/AC

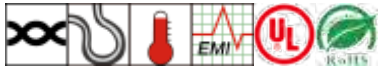
Properties

Resistant to bending, Anti-torsion
Excellent anti-EMI performance and transmission performance

Item NO.	Spec.	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL6104001	4x42AWGMCC	PET/AC	1	18	31

Medical Cables

Medical equipment cable



Application
 Apply to connect the medical equipments and transfer the signal

- Technical Data**
- Temperature Ranges
 - LDPE : -40°C ~80°C
 - PVC : -40°C ~105°C
 - HDPE : -40°C ~80°C
 - Spark Test
 - 2500V AC
 - Tensile Strength
 - 50Lbs pull
 - Cable Flex
 - 200000 cycles minimum
 - Insulation Resistance
 - ≥100MΩ·km

Cable Construction
 Conductor : Stranded conductor
 Insulation : Please see attached list
 Braiding : Tinned copper wire
 Jacket : Please see attached list

Properties
 Durcibility, flexibility and reliability, resistant to abrasion, sharp stretch, scratch, torsion, etc.
 Sterlization requirements:suitable for TtO(ethylene oxide), autoclaving, cold treatment, CIDEX (glutaraidehyde) soaked, IPA (isopropyl alcohol) to clean, etc .

Item NO.	Spec.	Insulation	Jacket	Nominal O.D. (mm)	Cop.weight approx. (kg/km)	Weight approx. (kg/km)
ZL6201001	18x26AWG	LDPE	LDPE	7.36	44.0	69.0
ZL6201002	14x28AWG	PVC	PVC	6.15	23.5	57.0
ZL6201003	11x40AWG	HDPE	HDPE	5.00	19.0	37.0

Medical Cables

Medical flexible RF cable



Application

Apply to the scalpel

Technical Data

- Temperature Ranges
-15°C ~90°C
- Characteristic Impedance
50±3Ω
- Dielectric Strength
AC1000V
1min
- Capacitance (1KHz)
Nom.95nF/m
- Conductor Resistance (Double bridge)
Max.300Ω/km
- Insulation Resistance
≥1524MΩ·km
- Rated Voltage
30V
- Attenuation (Max)
2db/m (2.5GHz)



Cable Construction

Conductor : Stranded alloy wire
 Insulation : Fluoroplastic
 Shield : Al metalized polyester tape and silver-coated annealed copper

Properties

Soft and flexible, small frictional resistance, smooth and round appearance
 Aergonomics, small size, light weight, high flexibility and intuitive security
 Durcibility, flexibility and reliability, resistant to abrasion, sharp stretch, scrach, torsion, etc.
 Sterlization requirements:suitable for TtO(ethylene oxide), autoclaving, cold treatment, CIDEX (glutaraidehyde) soaked, IPA (isopropyl alcohol) to clean, etc.

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx (kg/km)	Weight approx. (kg/km)
ZL6201004	29AWG	1.18	1.9	4.6

Medical Cables

High-temperature low-loss medical coaxial cable



Application

Apply to the scalpel

Technical Data

- Temperature Ranges
-15°C -90°C
- Characteristic Impedance
50±3Ω
- Dielectric Strength
AC1000V
1min
- Capacitance (1KHz)
Nom.95nF/m
- Conductor Resistance (Double bridge)
Max.300Ω/km
- Insulation Resistance
Min1524MΩ·km
- Rated Voltage
30V
- Attenuation (Max)
2db/m (2.5GHz)



Cable Construction

Conductor : Stranded alloy wire
 Insulation : Fluoroplastic
 Shield : Tinned copper wire braid and cu metalized polyester tape screen
 Jacket : Fluoroplastic

Properties

Soft and flexible, small frictional resistance, smooth and round appearance
 Aergonomics, small size, light weight, high flexibility and intuitive security
 Durcibility, flexibility and reliability, resistant to abrasion, sharp stretch, scratch, torsion, etc.
 Sterlization requirements:suitable for TtO(ethylene oxide), autoclaving, cold treatment, CIDEX (glutaraidehyde) soaked, IPA (isopropyl alcohol) to clean, etc.

Item NO.	Spec. (mm ²)	Nominal O.D. (mm)	Cop.weight approx (kg/km)	Weight approx. (kg/km)
ZL6201005	29AWG	1.20	1.7	3.6

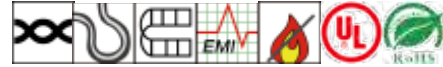
Connection Technology

- A variety of cable assembly products, including industrial RJ45 connector cable assemblies, M series round connector cable assemblies, servo motor cable assemblies and D-SUB connector cable assemblies.
- This product can be applied in the transmission of industrial data, Intelligent control equipment, visual monitoring systems, mechanical processing equipment, and other different occasions.
- High quality cable connector and cable products can perfectly meet the customer needs.
- Our products are environment friendly, meeting the requirements of RoHS.
- 明星产品
 - **Gigabit Ethernet CAT5e** 213 页
 - **Camera Link** 214 页
 - **USB 3.0** 215 页
 - **PROFINET TYPE A-C 系列组件** 216-225 页
 - **CAT6A RJ45-RJ45** 229 页
 - **M12 X-CODE** 230-231 页



Connection Technology(Machine vision assemblies)

Gigabit Ethernet CAT5e



Application

Supports the 1000BASE-T, designed for machine vision systems and industrial cameras, provides protection of data transmission for cameras in motion control system and harsh environments.

Technical Data

- Temperature range
 - Fixed Installation : PVC : -20°C ~80°C
 - Moved Installation : PVC : -5°C ~70°C
- Characteristic Impedance 100±15Ω
- Protection Classification IP20
- Min Bending Radius
 - Fixed Installation : 5D(D=cable diameter)
 - Moved Installation : 10D(D=cable diameter)
- Application of drag chain ≥10 million times
- Reference Standard According to ANSI/TIA-568-C.2 & ISO/IEC11801

Cable Construction

Conductor : Flexible ultra-fine stranded copper wire, according to IEC 60228/VDE 0295 class 6
 Insulation : PE
 Shield : Tinned copper wire braid
 Jacket : PVC
 Color : Black
 Patchcord with both ends of shielded RJ45 connectors

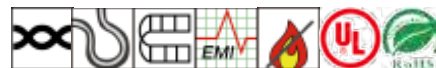
Properties

High flexible, Especially suitable for moved application
 Excellent stability, and one end can be locked with screw
 Have excellent performance of resistant to external EMI
 Cable flame resistance according IEC60332-1
 Long service life
 Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402558	RJ45 Straight male	4x2x26AWG	PVC	RJ45 Straight male (with screw)	1M
ZL7402559	RJ45 Straight male	4x2x26AWG	PVC	RJ45 Straight male (with screw)	3M
ZL7402560	RJ45 Straight male	4x2x26AWG	PVC	RJ45 Straight male (with screw)	5M
ZL7402561	RJ45 Straight male	4x2x26AWG	PVC	RJ45 Straight male (with screw)	10M
ZL7402562	RJ45 Straight male	4x2x26AWG	PVC	RJ45 Straight male (with screw)	15M
ZL7402563	RJ45 Straight male	4x2x26AWG	PVC	RJ45 Straight male (with screw)	20M
ZL7402564	RJ45 Straight male	4x2x26AWG	PVC	RJ45 Straight male (with screw)	30M
ZL7402565	RJ45 Straight male	4x2x26AWG	PVC	RJ45 Straight male (with screw)	45M

Connection Technology(Machine vision assemblies)

Camera Link



Application

PoCL Camera link pre-assembled patchcord, designed for machine vision systems and industrial cameras, provides protection of data and power transmission for cameras in motion control system and harsh environments.



Technical Data

—Temperature range

Fixed Installation :
PVC : -20°C ~80°C

Moved Installation :
PVC : -5°C ~70°C

—Differential impedance

100±10Ω

—Min Bending Radius

Fixed Installation : 5D(D=cable diameter)

Moved Installation : 10D(D=cable diameter)

Cable Construction

Conductor : Flexible ultra-fine stranded copper wire, according to

IEC 60228/VDE 0295 class 6

Insulation : Foamed PE&PVC

Shield : AL/Mylar individual screened and tinned copper wire braid

Jacket : PVC

Color : Black

Pre-assembled Patchcord with MDR or SDR

Properties

High flexible, Especially suitable for moved application

Excellent stability, and both end can be locked with screw

Have excellent performance of resistant to external EMI

Cable flame resistance according IEC60332-1

Long service life

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402566	MDR Straight male	11x2x28AWG+2x24AWG	PVC	MDR Straight male	1M
ZL7402567	MDR Straight male	11x2x28AWG+2x24AWG	PVC	MDR Straight male	3M
ZL7402568	MDR Straight male	11x2x28AWG+2x24AWG	PVC	MDR Straight male	5M
ZL7402569	MDR Straight male	11x2x28AWG+2x24AWG	PVC	MDR Straight male	10M
ZL7402570	MDR Straight male	11x2x28AWG+2x24AWG	PVC	SDR Straight male	1M
ZL7402571	MDR Straight male	11x2x28AWG+2x24AWG	PVC	SDR Straight male	3M
ZL7402572	MDR Straight male	11x2x28AWG+2x24AWG	PVC	SDR Straight male	5M
ZL7402573	MDR Straight male	11x2x28AWG+2x24AWG	PVC	SDR Straight male	10M
ZL7402574	SDR Straight male	11x2x28AWG+2x24AWG	PVC	SDR Straight male	1M
ZL7402575	SDR Straight male	11x2x28AWG+2x24AWG	PVC	SDR Straight male	3M
ZL7402576	SDR Straight male	11x2x28AWG+2x24AWG	PVC	SDR Straight male	5M
ZL7402577	SDR Straight male	11x2x28AWG+2x24AWG	PVC	SDR Straight male	10M

Connection Technology(Machine vision assemblies)

USB 3.0



Application

Designed for machine vision systems and industrial cameras, provides protection of data transmission for cameras in motion control system and harsh environments.

Technical Data

- Temperature range
 - Fixed Installation : PVC : -20°C ~80°C
 - Moved Installation : PVC : -5°C ~70°C
- Differential impedance
 - 90±20%Ω
- Min Bending Radius
 - Fixed Installation : 5D(D=cable diameter)
 - Moved Installation : 10D(D=cable diameter)

Cable Construction

Conductor : Flexible ultra-fine stranded copper wire, according to IEC 60228/VDE 0295 class 6
 Insulation : Foamed PE&PVC
 Shield : AL/Mylar individual screened and tinned copper wire braid
 Jacket : PVC
 Color : Black
 Pre-assembled Patchcord with USB connectors

Properties

High flexible. Especially suitable for moved application
 Excellent stability, and one end can be locked with screw
 Have excellent performance of resistant to external EMI
 Cable flame resistance according IEC60332-1
 Long service life

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402578	USB A	2x(2x28AWG)+2x2x28AWG	PVC	USB Mirco B	1M
ZL7402579	USB A	2x(2x28AWG)+2x2x28AWG	PVC	USB Mirco B	3M
ZL7402580	USB A	2x(2x28AWG)+2x2x28AWG	PVC	USB Mirco B	5M
ZL7402581	USB A	2x(2x28AWG)+2x2x28AWG	PVC	USB Mirco B	7M

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE A Assemblies M12-M12



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Suitable for fixed installation and indoor application.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - FRNC : -40°C ~80°C
 - During the Installation :
 - PVC : -5°C ~60°C
 - FRNC : -5°C ~60°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - IP67
- Coding
 - D
- Minimum Bending Radius
 - Fixed Application : 10D(D=cable diameter)
 - During the Installation : 15D(D=cable diameter)

Cable Construction

- Conductor : Solid bare copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table
- Color : Green(similar to RAL 6018)
- Patchcord with both ends of shielded 4 pole M12 connectors

Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402154	Straight male M12	1x4x22AWG/1	PVC	Straight male M12	1M
ZL7402155	Straight male M12	1x4x22AWG/1	PVC	Straight male M12	3M
ZL7402156	Straight male M12	1x4x22AWG/1	PVC	Straight male M12	5M
ZL7402157	Straight male M12	1x4x22AWG/1	PVC	Straight male M12	10M
ZL7402158	Straight male M12	1x4x22AWG/1	FRNC	Straight male M12	1M
ZL7402159	Straight male M12	1x4x22AWG/1	FRNC	Straight male M12	3M
ZL7402160	Straight male M12	1x4x22AWG/1	FRNC	Straight male M12	5M
ZL7402161	Straight male M12	1x4x22AWG/1	FRNC	Straight male M12	10M
ZL7402162	Right angled male M12	1x4x22AWG/1	PVC	Straight male M12	1M
ZL7402163	Right angled male M12	1x4x22AWG/1	PVC	Straight male M12	3M
ZL7402164	Right angled male M12	1x4x22AWG/1	PVC	Straight male M12	5M
ZL7402165	Right angled male M12	1x4x22AWG/1	PVC	Straight male M12	10M
ZL7402166	Right angled male M12	1x4x22AWG/1	FRNC	Straight male M12	1M
ZL7402167	Right angled male M12	1x4x22AWG/1	FRNC	Straight male M12	3M
ZL7402168	Right angled male M12	1x4x22AWG/1	FRNC	Straight male M12	5M
ZL7402169	Right angled male M12	1x4x22AWG/1	FRNC	Straight male M12	10M

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE A Assemblies M12-RJ45



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Suitable for fixed installation and indoor application.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - FRNC : -40°C ~80°C
 - During the Installation :
 - PVC : -5°C ~60°C
 - FRNC : -5°C ~60°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - M12 : IP67 RJ45 : IP20
- Coding
 - D(M12)
- Minimum Bending Radius
 - Fixed Application : 10D(D=cable diameter)
 - Mobile Application : 15D(D=cable diameter)

Cable Construction

- Conductor : Solid bare copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table
- Color : Green(similar to RAL 6018)
- Patchcord with one end of 4 pole M12 connector, other end of RJ45 connector

Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402170	Straight male M12	1x4x22AWG/1	PVC	Straight male RJ45	1M
ZL7402171	Straight male M12	1x4x22AWG/1	PVC	Straight male RJ45	3M
ZL7402172	Straight male M12	1x4x22AWG/1	PVC	Straight male RJ45	5M
ZL7402173	Straight male M12	1x4x22AWG/1	PVC	Straight male RJ45	10M
ZL7402174	Straight male M12	1x4x22AWG/1	FRNC	Straight male RJ45	1M
ZL7402175	Straight male M12	1x4x22AWG/1	FRNC	Straight male RJ45	3M
ZL7402176	Straight male M12	1x4x22AWG/1	FRNC	Straight male RJ45	5M
ZL7402177	Straight male M12	1x4x22AWG/1	FRNC	Straight male RJ45	10M
ZL7402178	Right angled male M12	1x4x22AWG/1	PVC	Straight male RJ45	1M
ZL7402179	Right angled male M12	1x4x22AWG/1	PVC	Straight male RJ45	3M
ZL7402180	Right angled male M12	1x4x22AWG/1	PVC	Straight male RJ45	5M
ZL7402181	Right angled male M12	1x4x22AWG/1	PVC	Straight male RJ45	10M
ZL7402182	Right angled male M12	1x4x22AWG/1	FRNC	Straight male RJ45	1M
ZL7402183	Right angled male M12	1x4x22AWG/1	FRNC	Straight male RJ45	3M
ZL7402184	Right angled male M12	1x4x22AWG/1	FRNC	Straight male RJ45	5M
ZL7402185	Right angled male M12	1x4x22AWG/1	FRNC	Straight male RJ45	10M
ZL7402186	Straight female flange M12	1x4x22AWG/1	PVC	Straight male RJ45	1M
ZL7402187	Straight female flange M12	1x4x22AWG/1	PVC	Straight male RJ45	3M
ZL7402188	Straight female flange M12	1x4x22AWG/1	PVC	Straight male RJ45	5M
ZL7402189	Straight female flange M12	1x4x22AWG/1	PVC	Straight male RJ45	10M
ZL7402190	Straight female flange M12	1x4x22AWG/1	FRNC	Straight male RJ45	1M
ZL7402191	Straight female flange M12	1x4x22AWG/1	FRNC	Straight male RJ45	3M
ZL7402192	Straight female flange M12	1x4x22AWG/1	FRNC	Straight male RJ45	5M
ZL7402193	Straight female flange M12	1x4x22AWG/1	FRNC	Straight male RJ45	10M

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE A Assemblies RJ45-RJ45



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Suitable for fixed installation and indoor application.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - FRNC : -40°C ~80°C
 - During the Installation :
 - PVC : -5°C ~60°C
 - FRNC : -5°C ~60°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - IP20
- Minimum Bending Radius
 - Fixed Application : 10D(D=cable diameter)
 - Mobile Application : 15D(D=cable diameter)

Cable Construction

- Conductor : Solid bare copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table
- Color : Green(similar to RAL 6018)
- Patchcord with both ends of shielded RJ45 connectors

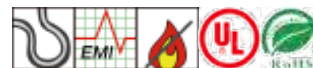
Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402194	Straight male RJ45	1x4x22AWG/1	PVC	Straight male RJ45	1M
ZL7402195	Straight male RJ45	1x4x22AWG/1	PVC	Straight male RJ45	3M
ZL7402196	Straight male RJ45	1x4x22AWG/1	PVC	Straight male RJ45	5M
ZL7402197	Straight male RJ45	1x4x22AWG/1	PVC	Straight male RJ45	10M
ZL7402198	Straight male RJ45	1x4x22AWG/1	FRNC	Straight male RJ45	1M
ZL7402199	Straight male RJ45	1x4x22AWG/1	FRNC	Straight male RJ45	3M
ZL7402200	Straight male RJ45	1x4x22AWG/1	FRNC	Straight male RJ45	5M
ZL7402201	Straight male RJ45	1x4x22AWG/1	FRNC	Straight male RJ45	10M
ZL7402202	Straight male RJ45	1x4x22AWG/1	PVC	Straight male RJ45	1M
ZL7402203	Straight male RJ45	1x4x22AWG/1	PVC	Straight male RJ45	3M
ZL7402204	Straight male RJ45	1x4x22AWG/1	PVC	Straight male RJ45	5M
ZL7402205	Straight male RJ45	1x4x22AWG/1	PVC	Straight male RJ45	10M
ZL7402206	Straight male RJ45	1x4x22AWG/1	FRNC	Straight male RJ45	1M
ZL7402207	Straight male RJ45	1x4x22AWG/1	FRNC	Straight male RJ45	3M
ZL7402208	Straight male RJ45	1x4x22AWG/1	FRNC	Straight male RJ45	5M
ZL7402209	Straight male RJ45	1x4x22AWG/1	FRNC	Straight male RJ45	10M

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE B Assemblies M12-M12



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Suitable for occasional movement and indoor application.



Technical Data

—Temperature Range

Fixed Application :

PVC : -20°C ~70°C

FRNC : -40°C ~80°C

During the Installation :

PVC : -5°C ~60°C

FRNC : -5°C ~60°C

—Characteristic Impedance

100±15Ω

—Protection Classification

IP67

—Coding

D

—Minimum Bending Radius

Fixed Application : 8D(D=cable diameter)

Occasional Movement : 15D(D=cable diameter)

Cable Construction

Conductor : Stranded tinned copper wire

Insulation : PE

Shield : AL/Mylar screen and tinned copper wire braid

Jacket : See the table

Color : Green(similar to RAL 6018)

Patchcord with both ends of shielded 4 pole M12 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402210	Straight male M12	1x4x22AWG/7	PVC	Straight male M12	1M
ZL7402211	Straight male M12	1x4x22AWG/7	PVC	Straight male M12	3M
ZL7402212	Straight male M12	1x4x22AWG/7	PVC	Straight male M12	5M
ZL7402213	Straight male M12	1x4x22AWG/7	PVC	Straight male M12	10M
ZL7402214	Straight male M12	1x4x22AWG/7	FRNC	Straight male M12	1M
ZL7402215	Straight male M12	1x4x22AWG/7	FRNC	Straight male M12	3M
ZL7402216	Straight male M12	1x4x22AWG/7	FRNC	Straight male M12	5M
ZL7402217	Straight male M12	1x4x22AWG/7	FRNC	Straight male M12	10M
ZL7402218	Right angled male M12	1x4x22AWG/7	PVC	Straight male M12	1M
ZL7402219	Right angled male M12	1x4x22AWG/7	PVC	Straight male M12	3M
ZL7402220	Right angled male M12	1x4x22AWG/7	PVC	Straight male M12	5M
ZL7402221	Right angled male M12	1x4x22AWG/7	PVC	Straight male M12	10M
ZL7402222	Right angled male M12	1x4x22AWG/7	FRNC	Straight male M12	1M
ZL7402223	Right angled male M12	1x4x22AWG/7	FRNC	Straight male M12	3M
ZL7402224	Right angled male M12	1x4x22AWG/7	FRNC	Straight male M12	5M
ZL7402225	Right angled male M12	1x4x22AWG/7	FRNC	Straight male M12	10M

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE B Assemblies M12-RJ45



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Suitable for occasional movement and indoor application.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - FRNC : -40°C ~80°C
 - During the Installation :
 - PVC : -5°C ~60°C
 - FRNC : -5°C ~60°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - M12 : IP67 RJ45 : IP20
- Coding
 - D(M12)
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)

Cable Construction

- Conductor : Stranded tinned copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table below
- Color : Green(similar to RAL 6018)
- Patchcord with one end of shielded 4 pole M12 connector, other end of RJ45 connector

Properties

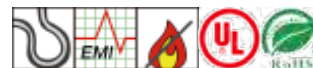
- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402226	Straight male M12	1x4x22AWG/7	PVC	Straight male RJ45	1M
ZL7402227	Straight male M12	1x4x22AWG/7	PVC	Straight male RJ45	3M
ZL7402228	Straight male M12	1x4x22AWG/7	PVC	Straight male RJ45	5M
ZL7402229	Straight male M12	1x4x22AWG/7	PVC	Straight male RJ45	10M
ZL7402230	Straight male M12	1x4x22AWG/7	FRNC	Straight male RJ45	1M
ZL7402231	Straight male M12	1x4x22AWG/7	FRNC	Straight male RJ45	3M
ZL7402232	Straight male M12	1x4x22AWG/7	FRNC	Straight male RJ45	5M
ZL7402233	Straight male M12	1x4x22AWG/7	FRNC	Straight male RJ45	10M
ZL7402234	Right angled male M12	1x4x22AWG/7	PVC	Straight male RJ45	1M
ZL7402235	Right angled male M12	1x4x22AWG/7	PVC	Straight male RJ45	3M
ZL7402236	Right angled male M12	1x4x22AWG/7	PVC	Straight male RJ45	5M
ZL7402237	Right angled male M12	1x4x22AWG/7	PVC	Straight male RJ45	10M
ZL7402238	Right angled male M12	1x4x22AWG/7	FRNC	Straight male RJ45	1M
ZL7402239	Right angled male M12	1x4x22AWG/7	FRNC	Straight male RJ45	3M
ZL7402240	Right angled male M12	1x4x22AWG/7	FRNC	Straight male RJ45	5M
ZL7402241	Right angled male M12	1x4x22AWG/7	FRNC	Straight male RJ45	10M
ZL7402242	Straight female flange M12	1x4x22AWG/7	PVC	Straight male RJ45	1M
ZL7402243	Straight female flange M12	1x4x22AWG/7	PVC	Straight male RJ45	3M
ZL7402244	Straight female flange M12	1x4x22AWG/7	PVC	Straight male RJ45	5M
ZL7402245	Straight female flange M12	1x4x22AWG/7	PVC	Straight male RJ45	10M
ZL7402246	Straight female flange M12	1x4x22AWG/7	FRNC	Straight male RJ45	1M
ZL7402247	Straight female flange M12	1x4x22AWG/7	FRNC	Straight male RJ45	3M
ZL7402248	Straight female flange M12	1x4x22AWG/7	FRNC	Straight male RJ45	5M
ZL7402249	Straight female flange M12	1x4x22AWG/7	FRNC	Straight male RJ45	10M

LONGTRONIC™ Ethernet Cables
 Bus Cables
 Low-Frequency Data Cables
 Sensor Cables
 LONGHEX™ Motion Control Cables
 Towing Cables
 Servo Cables
 Robot Cables
 High-temperature Cables
 Electrical Installation Cables
 Medical Cables
 Connection Technology
 Technical Data

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE B Assemblies RJ45-RJ45



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Suitable for occasional movement and indoor application.

Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - FRNC : -40°C ~80°C
 - During the Installation :
 - PVC : -5°C ~60°C
 - FRNC : -5°C ~60°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - IP20
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)

Cable Construction

- Conductor : Stranded tinned copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table below
- Color : Green(similar to RAL 6018)
- Patchcord with both ends of shielded RJ45 connectors

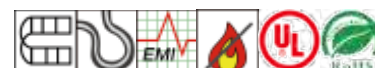
Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402250	Straight male RJ45	1x4x22AWG/7	PVC	Straight male RJ45	1M
ZL7402251	Straight male RJ45	1x4x22AWG/7	PVC	Straight male RJ45	3M
ZL7402252	Straight male RJ45	1x4x22AWG/7	PVC	Straight male RJ45	5M
ZL7402253	Straight male RJ45	1x4x22AWG/7	PVC	Straight male RJ45	10M
ZL7402254	Straight male RJ45	1x4x22AWG/7	FRNC	Straight male RJ45	1M
ZL7402255	Straight male RJ45	1x4x22AWG/7	FRNC	Straight male RJ45	3M
ZL7402256	Straight male RJ45	1x4x22AWG/7	FRNC	Straight male RJ45	5M
ZL7402257	Straight male RJ45	1x4x22AWG/7	FRNC	Straight male RJ45	10M
ZL7402258	Straight male RJ45	1x4x22AWG/7	PVC	Straight male RJ45	1M
ZL7402259	Straight male RJ45	1x4x22AWG/7	PVC	Straight male RJ45	3M
ZL7402260	Straight male RJ45	1x4x22AWG/7	PVC	Straight male RJ45	5M
ZL7402261	Straight male RJ45	1x4x22AWG/7	PVC	Straight male RJ45	10M
ZL7402262	Straight male RJ45	1x4x22AWG/7	FRNC	Straight male RJ45	1M
ZL7402263	Straight male RJ45	1x4x22AWG/7	FRNC	Straight male RJ45	3M
ZL7402264	Straight male RJ45	1x4x22AWG/7	FRNC	Straight male RJ45	5M
ZL7402265	Straight male RJ45	1x4x22AWG/7	FRNC	Straight male RJ45	10M

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE C Assemblies M12-M12



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Especially suitable for drag chain and indoor installation.



Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~80°C

PUR : -40°C ~80°C

Mobile Application :

PVC : -5°C ~70°C

PUR : -20°C ~80°C

—Characteristic Impedance

100±15Ω

—Protection Classification

IP67

—Coding

D

—Minimum Bending Radius

Fixed Application : 8D(D=cable diameter)

Mobile Application : 15D(D=cable diameter)

—Application of drag chain

≥2.5 million times

Cable Construction

Conductor : Stranded tinned copper wire

Insulation : PE

Shield : AL/Mylar screen and tinned copper wire braid

Jacket : See the table below

Color : Green(similar to RAL 6018)

Patchcord with both ends of shielded 4 pole M12 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

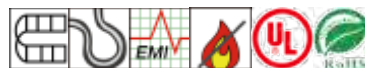
Provide a variety of length and sheath

Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402266	Straight male M12	1x4x22AWG/19	PVC	Straight male M12	1M
ZL7402267	Straight male M12	1x4x22AWG/19	PVC	Straight male M12	3M
ZL7402268	Straight male M12	1x4x22AWG/19	PVC	Straight male M12	5M
ZL7402269	Straight male M12	1x4x22AWG/19	PVC	Straight male M12	10M
ZL7402270	Straight male M12	1x4x22AWG/19	PUR	Straight male M12	1M
ZL7402271	Straight male M12	1x4x22AWG/19	PUR	Straight male M12	3M
ZL7402272	Straight male M12	1x4x22AWG/19	PUR	Straight male M12	5M
ZL7402273	Straight male M12	1x4x22AWG/19	PUR	Straight male M12	10M
ZL7402274	Right angled male M12	1x4x22AWG/19	PVC	Straight male M12	1M
ZL7402275	Right angled male M12	1x4x22AWG/19	PVC	Straight male M12	3M
ZL7402276	Right angled male M12	1x4x22AWG/19	PVC	Straight male M12	5M
ZL7402277	Right angled male M12	1x4x22AWG/19	PVC	Straight male M12	10M
ZL7402278	Right angled male M12	1x4x22AWG/19	PUR	Straight male M12	1M
ZL7402279	Right angled male M12	1x4x22AWG/19	PUR	Straight male M12	3M
ZL7402280	Right angled male M12	1x4x22AWG/19	PUR	Straight male M12	5M
ZL7402281	Right angled male M12	1x4x22AWG/19	PUR	Straight male M12	10M

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE C Assemblies M12-RJ45



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Especially suitable for drag chain and indoor installation.



Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~80°C

PUR : -40°C ~80°C

Mobile Application :

PVC : -5°C ~70°C

PUR : -20°C ~80°C

—Characteristic Impedance

100±15Ω

—Protection Classification

IP67

—Coding

D

—Minimum Bending Radius

Fixed Application : 8D(D=cable diameter)

Mobile Application : 15D(D=cable diameter)

—Application of drag chain

≥2.5 million times

Cable Construction

Conductor : stranded tinned copper wire

Insulation : PE

Shield : AL/Mylar screen and tinned copper wire braid

Jacket : see the table below

Color : green(similar to RAL 6018)

Patchcord with one end of shielded 4 core M12 connector, other end of RJ45 connector

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

Good performance of CAT5e

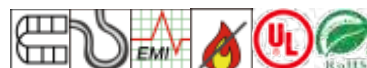
Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402282	Straight male M12	1x4x22AWG/19	PVC	Straight male RJ45	1M
ZL7402283	Straight male M12	1x4x22AWG/19	PVC	Straight male RJ45	3M
ZL7402284	Straight male M12	1x4x22AWG/19	PVC	Straight male RJ45	5M
ZL7402285	Straight male M12	1x4x22AWG/19	PVC	Straight male RJ45	10M
ZL7402286	Straight male M12	1x4x22AWG/19	PUR	Straight male RJ45	1M
ZL7402287	Straight male M12	1x4x22AWG/19	PUR	Straight male RJ45	3M
ZL7402288	Straight male M12	1x4x22AWG/19	PUR	Straight male RJ45	5M
ZL7402289	Straight male M12	1x4x22AWG/19	PUR	Straight male RJ45	10M
ZL7402290	Right angled male M12	1x4x22AWG/19	PVC	Straight male RJ45	1M
ZL7402291	Right angled male M12	1x4x22AWG/19	PVC	Straight male RJ45	3M
ZL7402292	Right angled male M12	1x4x22AWG/19	PVC	Straight male RJ45	5M
ZL7402293	Right angled male M12	1x4x22AWG/19	PVC	Straight male RJ45	10M
ZL7402294	Right angled male M12	1x4x22AWG/19	PUR	Straight male RJ45	1M
ZL7402295	Right angled male M12	1x4x22AWG/19	PUR	Straight male RJ45	3M
ZL7402296	Right angled male M12	1x4x22AWG/19	PUR	Straight male RJ45	5M
ZL7402297	Right angled male M12	1x4x22AWG/19	PUR	Straight male RJ45	10M
ZL7402298	Straight female flange M12	1x4x22AWG/19	PVC	Straight male RJ45	1M
ZL7402299	Straight female flange M12	1x4x22AWG/19	PVC	Straight male RJ45	3M
ZL7402300	Straight female flange M12	1x4x22AWG/19	PVC	Straight male RJ45	5M
ZL7402301	Straight female flange M12	1x4x22AWG/19	PVC	Straight male RJ45	10M
ZL7402302	Straight female flange M12	1x4x22AWG/19	PUR	Straight male RJ45	1M

Connection Technology(Ethernet cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402303	Straight female flange M12	1x4x22AWG/19	PUR	Straight male RJ45	3M
ZL7402304	Straight female flange M12	1x4x22AWG/19	PUR	Straight male RJ45	5M
ZL7402305	Straight female flange M12	1x4x22AWG/19	PUR	Straight male RJ45	10M

Connection Technology(Ethernet cable assemblies)

PROFINET TYPE C Assemblies RJ45-RJ45



Application

This patchcord is designed for PROFINET and widely used in industrial Ethernet. It can make two electronic equipments and two instruments directly connected. Especially suitable for drag chain and indoor installation.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -40°C ~80°C
 - PUR : -40°C ~80°C
 - Mobile Application :
 - PVC : -5°C ~70°C
 - PUR : -20°C ~80°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - IP67
- Coding
 - D
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Mobile Application : 15D(D=cable diameter)
- Application of drag chain
 - ≥2.5 million times

Cable Construction

- Conductor : stranded tinned copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : see the table below
- Color : green(similar to RAL 6018)
- Patchcord with both ends of shielded RJ45 connectors

Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Resistant to abrasion and oil, especially for PUR
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402306	Straight male RJ45	1x4x22AWG/19	PVC	Straight male RJ45	1M
ZL7402307	Straight male RJ45	1x4x22AWG/19	PVC	Straight male RJ45	3M
ZL7402308	Straight male RJ45	1x4x22AWG/19	PVC	Straight male RJ45	5M
ZL7402309	Straight male RJ45	1x4x22AWG/19	PVC	Straight male RJ45	10M
ZL7402310	Straight male RJ45	1x4x22AWG/19	PUR	Straight male RJ45	1M
ZL7402311	Straight male RJ45	1x4x22AWG/19	PUR	Straight male RJ45	3M
ZL7402312	Straight male RJ45	1x4x22AWG/19	PUR	Straight male RJ45	5M
ZL7402313	Straight male RJ45	1x4x22AWG/19	PUR	Straight male RJ45	10M
ZL7402314	Straight male RJ45	1x4x22AWG/19	PVC	Straight male RJ45	1M
ZL7402315	Straight male RJ45	1x4x22AWG/19	PVC	Straight male RJ45	3M
ZL7402316	Straight male RJ45	1x4x22AWG/19	PVC	Straight male RJ45	5M
ZL7402317	Straight male RJ45	1x4x22AWG/19	PVC	Straight male RJ45	10M
ZL7402318	Straight male RJ45	1x4x22AWG/19	PUR	Straight male RJ45	1M
ZL7402319	Straight male RJ45	1x4x22AWG/19	PUR	Straight male RJ45	3M
ZL7402320	Straight male RJ45	1x4x22AWG/19	PUR	Straight male RJ45	5M
ZL7402321	Straight male RJ45	1x4x22AWG/19	PUR	Straight male RJ45	10M

Connection Technology(Ethernet cable assemblies)

Industrial EtherNet Assemblies CAT5e RJ45-RJ45



Application

CAT5e patchcord is suitable for use in automation technology and industrial applications, external interconnection of electronic equipment, can be used in the system of EtherCAT, EtherNet/IP and CC-link IE. Suitable for flexible application and indoor installation.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - LSZH/PUR : -40°C ~80°C
 - During the Installation :
 - PVC/LSZH : -5°C ~60°C
 - PUR : -20°C ~80°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - IP20
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)
- Reference Standard
 - ANSI/TIA-568-C.2 , ISO/IEC11801

Cable Construction

- Conductor : Stranded copper conductor
- Insulation: PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table below
- Color : Yellow
- Patchcord with both ends of shielded RJ45 connectors

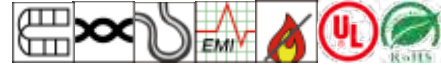
Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402001	RJ45	2x2x26AWG	PVC	RJ45	1M
ZL7402002	RJ45	2x2x26AWG	PVC	RJ45	3M
ZL7402003	RJ45	2x2x26AWG	PVC	RJ45	5M
ZL7402004	RJ45	2x2x26AWG	PVC	RJ45	10M
ZL7402005	RJ45	2x2x26AWG	LSZH	RJ45	1M
ZL7402006	RJ45	2x2x26AWG	LSZH	RJ45	3M
ZL7402007	RJ45	2x2x26AWG	LSZH	RJ45	5M
ZL7402008	RJ45	2x2x26AWG	LSZH	RJ45	10M
ZL7402009	RJ45	2x2x26AWG	PUR	RJ45	1M
ZL7402010	RJ45	2x2x26AWG	PUR	RJ45	3M
ZL7402011	RJ45	2x2x26AWG	PUR	RJ45	5M
ZL7402012	RJ45	2x2x26AWG	PUR	RJ45	10M
ZL7402013	RJ45	4x2x26AWG	PVC	RJ45	1M
ZL7402014	RJ45	4x2x26AWG	PVC	RJ45	3M
ZL7402015	RJ45	4x2x26AWG	PVC	RJ45	5M
ZL7402016	RJ45	4x2x26AWG	PVC	RJ45	10M
ZL7402017	RJ45	4x2x26AWG	LSZH	RJ45	1M
ZL7402018	RJ45	4x2x26AWG	LSZH	RJ45	3M
ZL7402019	RJ45	4x2x26AWG	LSZH	RJ45	5M
ZL7402020	RJ45	4x2x26AWG	LSZH	RJ45	10M
ZL7402021	RJ45	4x2x26AWG	PUR	RJ45	1M
ZL7402022	RJ45	4x2x26AWG	PUR	RJ45	3M
ZL7402023	RJ45	4x2x26AWG	PUR	RJ45	5M
ZL7402024	RJ45	4x2x26AWG	PUR	RJ45	10M

Connection Technology(Ethernet cable assemblies)

Industrial EtherNet Assemblies FD CAT5e RJ45-RJ45



Application

CAT5e patchcord is suitable for use in automation technology and industrial applications, external interconnection of electronic equipment, can be used in the system of EtherCAT, EtherNet/IP and CC-link IE. Suitable for drag chain and frequent movement.

Technical Data

- Temperature Range
 - Fixed Application : PVC/PUR: -40°C ~-80°C
 - Mobile Application : PVC : -5°C ~70°C PUR : -20°C ~-80°C
- Characteristic Impedance 100±15Ω
- Protection Classification IP20
- Minimum Bending Radius
 - Fixed application : 5D(D=cable diameter)
 - Mobile Application : 10D(D=cable diameter)
- Application of drag chain ≥10 million times
- Reference Standard ANSI/TIA-568-C.2 , ISO/IEC11801

Cable Construction

Conductor : Flexible ultra-fine stranded copper wire, according to IEC 60228/VDE 0295 class 6
 Insulation : PE
 Shield : Tinned copper braided
 Jacket : See the table below
 Color : Black
 Patchcord with both ends of shielded RJ45 connectors

Properties

Cable flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI
 Long service life
 Flexible use, can change equipments easily
 Provide a variety of length and sheath
 Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402025	RJ45	4x2x26AWG	PVC	RJ45	1M
ZL7402026	RJ45	4x2x26AWG	PVC	RJ45	3M
ZL7402027	RJ45	4x2x26AWG	PVC	RJ45	5M
ZL7402028	RJ45	4x2x26AWG	PVC	RJ45	10M
ZL7402029	RJ45	4x2x26AWG	PUR	RJ45	1M
ZL7402030	RJ45	4x2x26AWG	PUR	RJ45	3M
ZL7402031	RJ45	4x2x26AWG	PUR	RJ45	5M
ZL7402032	RJ45	4x2x26AWG	PUR	RJ45	10M

Connection Technology(Ethernet cable assemblies)

CAT6 RJ45-RJ45



Application

CAT6 patchcord is suitable for use in automation technology and industrial applications, external interconnection of electronic equipment, can be used in the system of EtherCAT, EtherNet/IP and CC-link IE. Suitable for flexible application and indoor installation.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - LSZH/PUR : -40°C ~80°C
 - During the Installation :
 - PVC/LSZH : -5°C ~60°C
 - PUR : -20°C ~80°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - IP20
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)
- Reference Standard
 - ANSI/TIA-568-C.2 , ISO/IEC11801

Cable Construction

- Conductor : Stranded copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table below
- Color : Yellow
- Patchcord with both ends of shielded RJ45 connectors

Properties

- Cable flame resistance according IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT6

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402034	RJ45	4x2x26AWG	PVC	RJ45	1M
ZL7402035	RJ45	4x2x26AWG	PVC	RJ45	3M
ZL7402036	RJ45	4x2x26AWG	PVC	RJ45	5M
ZL7402037	RJ45	4x2x26AWG	PVC	RJ45	10M
ZL7402038	RJ45	4x2x26AWG	LSZH	RJ45	1M
ZL7402039	RJ45	4x2x26AWG	LSZH	RJ45	3M
ZL7402040	RJ45	4x2x26AWG	LSZH	RJ45	5M
ZL7402041	RJ45	4x2x26AWG	LSZH	RJ45	10M
ZL7402042	RJ45	4x2x26AWG	PUR	RJ45	1M
ZL7402043	RJ45	4x2x26AWG	PUR	RJ45	3M
ZL7402044	RJ45	4x2x26AWG	PUR	RJ45	5M
ZL7402045	RJ45	4x2x26AWG	PUR	RJ45	10M
ZL7402046	RJ45	4x2x24AWG	PVC	RJ45	1M
ZL7402047	RJ45	4x2x24AWG	PVC	RJ45	3M
ZL7402048	RJ45	4x2x24AWG	PVC	RJ45	5M
ZL7402049	RJ45	4x2x24AWG	PVC	RJ45	10M
ZL7402050	RJ45	4x2x24AWG	LSZH	RJ45	1M
ZL7402051	RJ45	4x2x24AWG	LSZH	RJ45	3M
ZL7402052	RJ45	4x2x24AWG	LSZH	RJ45	5M
ZL7402053	RJ45	4x2x24AWG	LSZH	RJ45	10M
ZL7402054	RJ45	4x2x24AWG	PUR	RJ45	1M
ZL7402055	RJ45	4x2x24AWG	PUR	RJ45	3M
ZL7402056	RJ45	4x2x24AWG	PUR	RJ45	5M
ZL7402057	RJ45	4x2x24AWG	PUR	RJ45	10M

Connection Technology(Ethernet cable assemblies)

CAT6A RJ45-RJ45



Application

CAT6A patchcord is suitable for use in automation technology and industrial applications, external interconnection of electronic equipment, can be used in the system of EtherCAT, EtherNet/IP and CC-link IE. Suitable for flexible use and indoor installation.

Technical Data

—Temperature Range

Fixed Application :
 PVC : -20°C ~70°C
 LSZH/PUR: -40°C ~80°C

During the Installation :
 PVC/LSZH : -5°C ~60°C
 PUR: -20°C ~80°C

—Characteristic Impedance

100±15Ω

—Protection Classification

IP20

—Minimum Bending Radius

Fixed Application : 8D(D=cable diameter)
 Occasional Movement : 15D(D=cable diameter)

—Reference Standard

ANSI/TIA-568-C.2 , ISO/IEC11801

Cable Construction

Conductor : Stranded copper wire
 Insulation : PE
 Shield : AL/Mylar individual screen and tinned copper wire braid
 Jacket : See the table below
 Color : Yellow
 Patchcord with both ends of shielded RJ45 connectors

Properties

Cable flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI
 Long service life
 Flexible use, can change equipments easily
 Provide a variety of length and sheath
 Good performance of CAT6

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402058	RJ45	4x2x26AWG	PVC	RJ45	1M
ZL7402059	RJ45	4x2x26AWG	PVC	RJ45	3M
ZL7402060	RJ45	4x2x26AWG	PVC	RJ45	5M
ZL7402061	RJ45	4x2x26AWG	PVC	RJ45	10M
ZL7402062	RJ45	4x2x26AWG	LSZH	RJ45	1M
ZL7402063	RJ45	4x2x26AWG	LSZH	RJ45	3M
ZL7402064	RJ45	4x2x26AWG	LSZH	RJ45	5M
ZL7402065	RJ45	4x2x26AWG	LSZH	RJ45	10M
ZL7402066	RJ45	4x2x26AWG	PUR	RJ45	1M
ZL7402067	RJ45	4x2x26AWG	PUR	RJ45	3M
ZL7402068	RJ45	4x2x26AWG	PUR	RJ45	5M
ZL7402069	RJ45	4x2x26AWG	PUR	RJ45	10M

Connection Technology(Ethernet cable assemblies)

M12 X-code-M12 X-code

Application

Industrial Ethernet pre-assembled patchcord , good performance of CAT6A, support 10Gbps, can be used in the system of EtherCAT and EtherNet/IP.Suitable for the harsh environment with water and shock.

Technical Data

—Temperature Range

Fixed Application :

PVC : -20°C ~70°C

LSZH/PUR : -40°C ~80°C

During the Installation :

PVC/LSZH : -5°C ~60°C

PUR : -40°C ~80°C

—Characteristic Impedance

100±15Ω

—Protection Classification

IP67

—Coding : X

—Minimum Bending Radius

Fixed Application : 8D(D=cable diameter)



Cable Construction

Conductor : Stranded copper wire

Insulation : Foamed PE

Shield : AL-Mylar individual screened and tinned copper wire braid

Jacket : See the table below

Color : Yellow

Patchcord with both ends of shielded M12-X code connectors

Properties

Excellent stability,waterproof and shockproof

Have excellent performance of resistant to external EMI

Cable flame resistance according IEC60332-1.

Long service life

Good performance of CAT6A

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402582	Straight male M12	4x2x26AWG	PVC	Straight male M12	1M
ZL7402583	Straight male M12	4x2x26AWG	PVC	Straight male M12	3M
ZL7402584	Straight male M12	4x2x26AWG	PVC	Straight male M12	5M
ZL7402585	Straight male M12	4x2x26AWG	PVC	Straight male M12	10M
ZL7402586	Straight male M12	4x2x26AWG	LSZH	Straight male M12	1M
ZL7402587	Straight male M12	4x2x26AWG	LSZH	Straight male M12	3M
ZL7402588	Straight male M12	4x2x26AWG	LSZH	Straight male M12	5M
ZL7402589	Straight male M12	4x2x26AWG	LSZH	Straight male M12	10M
ZL7402590	Straight male M12	4x2x26AWG	PUR	Straight male M12	1M
ZL7402591	Straight male M12	4x2x26AWG	PUR	Straight male M12	3M
ZL7402592	Straight male M12	4x2x26AWG	PUR	Straight male M12	5M
ZL7402593	Straight male M12	4x2x26AWG	PUR	Straight male M12	10M

Connection Technology(Ethernet cable assemblies)

M12 X-code-RJ45



Application

CAT6A patchcord is suitable for use in automation technology and industrial applications, external interconnection of electronic equipment, can be used in the system of EtherCAT, EtherNet/IP and CC-link IE. Suitable for flexible use and indoor installation.

Technical Data

—Temperature Range

Fixed Application :

PVC : -20°C ~70°C

LSZH/PUR : -40°C ~80°C

During the Installation :

PVC/LSZH : -5°C ~60°C

PUR : -20°C ~80°C

—Characteristic Impedance

100±15Ω

—Protection Classification

M12 : IP67

RJ45 : IP20

—Coding : X

—Minimum Bending Radius

Fixed Application : 8D(D=cable diameter)

Cable Construction

Conductor : Stranded copper wire

Insulation : Foamed PE

Shield : AL-Mylar individual screened and tinned copper wire braid

Jacket : See the table below

Color : Yellow

Pre-assembled patchcord with one end of M12 X-code connector, other end of RJ45 connector

Properties

Excellent stability,waterproof and shockproof

Have excellent performance of resistant to external EMI

Cable flame resistance according IEC60332-1

Long service life

Good performance of CAT6A

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402594	Straight male M12	4x2x26AWG	PVC	Straight male RJ45	1M
ZL7402595	Straight male M12	4x2x26AWG	PVC	Straight male RJ45	3M
ZL7402596	Straight male M12	4x2x26AWG	PVC	Straight male RJ45	5M
ZL7402597	Straight male M12	4x2x26AWG	PVC	Straight male RJ45	10M
ZL7402598	Straight male M12	4x2x26AWG	LSZH	Straight male RJ45	1M
ZL7402599	Straight male M12	4x2x26AWG	LSZH	Straight male RJ45	3M
ZL7402600	Straight male M12	4x2x26AWG	LSZH	Straight male RJ45	5M
ZL7402601	Straight male M12	4x2x26AWG	LSZH	Straight male RJ45	10M
ZL7402602	Straight male M12	4x2x26AWG	PUR	Straight male RJ45	1M
ZL7402603	Straight male M12	4x2x26AWG	PUR	Straight male RJ45	3M
ZL7402604	Straight male M12	4x2x26AWG	PUR	Straight male RJ45	5M
ZL7402605	Straight male M12	4x2x26AWG	PUR	Straight male RJ45	10M

Connection Technology(Ethernet cable assemblies)

M12-M12



Application

Suitable for use in industrial Ethernet, external interconnection of electronic equipment, can be used in the system of EtherCAT and EtherNet/IP. Suitable for flexible use and indoor installation.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC: -20°C ~70°C
 - LSZH/PUR: -40°C ~80°C
 - During the Installation :
 - PVC/LSZH: -5°C ~60°C
 - PUR : -20°C ~80°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - IP67
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)
- Reference Standard
 - ANSI/TIA-568-C.2, IEC61076-1-101

Cable Construction

- Conductor : Stranded copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table below
- Color : Black
- Patchcord with both ends of 4 pole M12 connectors

Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402070	Straight male M12	2x2x26AWG	PVC	Straight male M12	1M
ZL7402071	Straight male M12	2x2x26AWG	PVC	Straight male M12	3M
ZL7402072	Straight male M12	2x2x26AWG	PVC	Straight male M12	5M
ZL7402073	Straight male M12	2x2x26AWG	PVC	Straight male M12	10M
ZL7402074	Straight male M12	2x2x26AWG	LSZH	Straight male M12	1M
ZL7402075	Straight male M12	2x2x26AWG	LSZH	Straight male M12	3M
ZL7402076	Straight male M12	2x2x26AWG	LSZH	Straight male M12	5M
ZL7402077	Straight male M12	2x2x26AWG	LSZH	Straight male M12	10M
ZL7402078	Straight male M12	2x2x26AWG	PUR	Straight male M12	1M
ZL7402079	Straight male M12	2x2x26AWG	PUR	Straight male M12	3M
ZL7402080	Straight male M12	2x2x26AWG	PUR	Straight male M12	5M
ZL7402081	Straight male M12	2x2x26AWG	PUR	Straight male M12	10M
ZL7402082	Straight male M12	2x2x24AWG	PVC	/	1M
ZL7402083	Straight male M12	2x2x24AWG	PVC	/	3M
ZL7402084	Straight male M12	2x2x24AWG	PVC	/	5M
ZL7402085	Straight male M12	2x2x24AWG	PVC	/	10M
ZL7402086	Straight male M12	2x2x24AWG	LSZH	/	1M
ZL7402087	Straight male M12	2x2x24AWG	LSZH	/	3M
ZL7402088	Straight male M12	2x2x24AWG	LSZH	/	5M
ZL7402089	Straight male M12	2x2x24AWG	LSZH	/	10M
ZL7402090	Straight male M12	2x2x24AWG	PUR	/	1M
ZL7402091	Straight male M12	2x2x24AWG	PUR	/	3M
ZL7402092	Straight male M12	2x2x24AWG	PUR	/	5M
ZL7402093	Straight male M12	2x2x24AWG	PUR	/	10M

Connection Technology(Ethernet cable assemblies)

M12-RJ45



Application

Suitable for use in industrial Ethernet,external interconnection of electronic equipment,can be used in the system of EtherCAT and EtherNet/IP. Suitable for flexible use and indoor installation.

Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20℃ ~-70℃
 - LSZH/PUR: -40℃ ~-80℃
 - Installed Application :
 - PVC/LSZH: -5℃ ~-60℃
 - PUR : -20℃ ~-80℃
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - M12 : IP67 RJ45 : IP20
- Coding
 - D(M12)
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)
- Reference Standard
 - ANSI/TIA-568-C.2,IEC61076-1-101,IEC



Cable Construction

- Conductor : Stranded copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table below
- Color : Black
- Patchcord with one end of 4 pole M12 connector, other end of RJ45 connector

Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible usage, easy to change the equipment
- Various lengths and jackets for choosing
- Excellent CAT5e performance

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402094	Straight male M12	2x2x26AWG	PVC	Straight male RJ45	1M
ZL7402095	Straight male M12	2x2x26AWG	PVC	Straight male RJ45	3M
ZL7402096	Straight male M12	2x2x26AWG	PVC	Straight male RJ45	5M
ZL7402097	Straight male M12	2x2x26AWG	PVC	Straight male RJ45	10M
ZL7402098	Straight male M12	2x2x26AWG	LSZH	Straight male RJ45	1M
ZL7402099	Straight male M12	2x2x26AWG	LSZH	Straight male RJ45	3M
ZL7402100	Straight male M12	2x2x26AWG	LSZH	Straight male RJ45	5M
ZL7402101	Straight male M12	2x2x26AWG	LSZH	Straight male RJ45	10M
ZL7402102	Straight male M12	2x2x26AWG	PUR	Straight male RJ45	1M
ZL7402103	Straight male M12	2x2x26AWG	PUR	Straight male RJ45	3M
ZL7402104	Straight male M12	2x2x26AWG	PUR	Straight male RJ45	5M
ZL7402105	Straight male M12	2x2x26AWG	PUR	Straight male RJ45	10M
ZL7402106	Right angled male M12	2x2x24AWG	PVC	Straight male RJ45	1M
ZL7402107	Right angled male M12	2x2x24AWG	PVC	Straight male RJ45	3M
ZL7402108	Right angled male M12	2x2x24AWG	PVC	Straight male RJ45	5M
ZL7402109	Right angled male M12	2x2x24AWG	PVC	Straight male RJ45	10M
ZL7402110	Right angled male M12	2x2x24AWG	LSZH	Straight male RJ45	1M
ZL7402111	Right angled male M12	2x2x24AWG	LSZH	Straight male RJ45	3M
ZL7402112	Right angled male M12	2x2x24AWG	LSZH	Straight male RJ45	5M
ZL7402113	Right angled male M12	2x2x24AWG	LSZH	Straight male RJ45	10M
ZL7402114	Right angled male M12	2x2x24AWG	PUR	Straight male RJ45	1M
ZL7402115	Right angled male M12	2x2x24AWG	PUR	Straight male RJ45	3M
ZL7402116	Right angled male M12	2x2x24AWG	PUR	Straight male RJ45	5M
ZL7402117	Right angled male M12	2x2x24AWG	PUR	Straight male RJ45	10M

Connection Technology(Ethernet cable assemblies)

M8-M8



Application

Suitable for use in industrial Ethernet, external interconnection of electronic equipment, can be used in the system of EtherCAT and EtherNet/IP. Suitable for flexible use and indoor installation.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20°C ~70°C
 - LSZH/PUR : -40°C ~80°C
 - Installed Application :
 - PVC/LSZH: -5°C ~60°C
 - PUR : -20°C ~80°C
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - IP67
- Coding
 - A
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)

Cable Construction

- Conductor : Stranded copper wire
- Insulation : PE
- Shield : AL/Mylar screen and tinned copper wire braid
- Jacket : See the table below
- Color : Black
- Patchcord with both ends of 4 pole M8 connectors

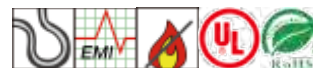
Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath
- Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402118	Straight male M8	2x2x26AWG	PVC	Straight male M8	1M
ZL7402119	Straight male M8	2x2x26AWG	PVC	Straight male M8	3M
ZL7402120	Straight male M8	2x2x26AWG	PVC	Straight male M8	5M
ZL7402121	Straight male M8	2x2x26AWG	PVC	Straight male M8	10M
ZL7402122	Straight male M8	2x2x26AWG	LSZH	Straight male M8	1M
ZL7402123	Straight male M8	2x2x26AWG	LSZH	Straight male M8	3M
ZL7402124	Straight male M8	2x2x26AWG	LSZH	Straight male M8	5M
ZL7402125	Straight male M8	2x2x26AWG	LSZH	Straight male M8	10M
ZL7402126	Straight male M8	2x2x26AWG	PUR	Straight male M8	1M
ZL7402127	Straight male M8	2x2x26AWG	PUR	Straight male M8	3M
ZL7402128	Straight male M8	2x2x26AWG	PUR	Straight male M8	5M
ZL7402129	Straight male M8	2x2x26AWG	PUR	Straight male M8	10M
ZL7402130	Right angled male M8	2x2x24AWG	PVC	Straight male M8	1M
ZL7402131	Right angled male M8	2x2x24AWG	PVC	Straight male M8	3M
ZL7402132	Right angled male M8	2x2x24AWG	PVC	Straight male M8	5M
ZL7402133	Right angled male M8	2x2x24AWG	PVC	Straight male M8	10M
ZL7402134	Right angled male M8	2x2x24AWG	LSZH	Straight male M8	1M
ZL7402135	Right angled male M8	2x2x24AWG	LSZH	Straight male M8	3M
ZL7402136	Right angled male M8	2x2x24AWG	LSZH	Straight male M8	5M
ZL7402137	Right angled male M8	2x2x24AWG	LSZH	Straight male M8	10M
ZL7402138	Right angled male M8	2x2x24AWG	PUR	Straight male M8	1M
ZL7402139	Right angled male M8	2x2x24AWG	PUR	Straight male M8	3M
ZL7402140	Right angled male M8	2x2x24AWG	PUR	Straight male M8	5M
ZL7402141	Right angled male M8	2x2x24AWG	PUR	Straight male M8	10M

Connection Technology(Ethernet cable assemblies)

M8-RJ45



Application

Suitable for use in industrial Ethernet,external interconnection of electronic equipment,can be used in the system of EtherCAT and EtherNet/IP. Suitable for flexible use and indoor installation.

Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -20℃ ~-70℃
 - LSZH/PUR : -40℃ ~-80℃
 - Installed Application :
 - PVC/LSZH : -5℃ ~-60℃
 - PUR : -20℃ ~-80℃
- Characteristic Impedance
 - 100±15Ω
- Protection Classification
 - M8 : IP67
 - RJ45 : IP20
- Coding
 - A(M8)
- Minimum Bending Radius
 - Fixed Application : 8D(D=cable diameter)
 - Occasional Movement : 15D(D=cable diameter)



Cable Construction

Conductor : Stranded copper wire
 Insulation : PE
 Shield : AL/Mylar screen and tinned copper wire braid
 Jacket : See the table below
 Color : Black
 Patchcord with one end of 4 pole M8 connector,other end of RJ45 connector

Properties

Cable flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI
 Long service life
 Flexible use,can change equipments easily
 Provide a variety of length and sheath
 Good performance of CAT5e

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402142	Straight male M8	2x2x26AWG	PVC	Straight male RJ45	1M
ZL7402143	Straight male M8	2x2x26AWG	PVC	Straight male RJ45	3M
ZL7402144	Straight male M8	2x2x26AWG	PVC	Straight male RJ45	5M
ZL7402145	Straight male M8	2x2x26AWG	PVC	Straight male RJ45	10M
ZL7402146	Straight male M8	2x2x26AWG	LSZH	Straight male RJ45	1M
ZL7402147	Straight male M8	2x2x26AWG	LSZH	Straight male RJ45	3M
ZL7402148	Straight male M8	2x2x26AWG	LSZH	Straight male RJ45	5M
ZL7402149	Straight male M8	2x2x26AWG	LSZH	Straight male RJ45	10M
ZL7402150	Straight male M8	2x2x26AWG	PUR	Straight male RJ45	1M
ZL7402151	Straight male M8	2x2x26AWG	PUR	Straight male RJ45	3M
ZL7402152	Straight male M8	2x2x26AWG	PUR	Straight male RJ45	5M
ZL7402153	Straight male M8	2x2x26AWG	PUR	Straight male RJ45	10M

Connection Technology(Bus cable assemblies)

PROFIBUS-DP Assemblies M12-M12



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment, designed for PROFIBUS-DP. Suitable for flexible use and indoor installation.

Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~80°C

PUR : -40°C ~80°C

Mobile Application :

PVC : -5°C ~70°C

PUR : -20°C ~80°C

—Characteristic Impedance

150±15Ω@3~20MHz

—Protection Classification

IP67

—Coding

B

—Minimum Bending Radius

Fixed Application : 8D(D=cable diameter)

During the Installation : 15D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : Foamed PE

Shield : AL/Mylar screen and tinned copper wire braid

Jacket : PVC/PUR

Color : purple(similar to RAL 4001)

Patchcord with both ends of 5 core M12 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402322	Straight male M12	1x2x22AWG/19	PVC	Straight female M12	1M
ZL7402323	Straight male M12	1x2x22AWG/19	PVC	Straight female M12	3M
ZL7402324	Straight male M12	1x2x22AWG/19	PVC	Straight female M12	5M
ZL7402325	Straight male M12	1x2x22AWG/19	PVC	Straight female M12	10M
ZL7402326	Straight male M12	1x2x22AWG/19	PUR	Straight female M12	1M
ZL7402327	Straight male M12	1x2x22AWG/19	PUR	Straight female M12	3M
ZL7402328	Straight male M12	1x2x22AWG/19	PUR	Straight female M12	5M
ZL7402329	Straight male M12	1x2x22AWG/19	PUR	Straight female M12	10M
ZL7402330	Right angled male M12	1x2x22AWG/19	PVC	Straight female M12	1M
ZL7402331	Right angled male M12	1x2x22AWG/19	PVC	Straight female M12	3M
ZL7402332	Right angled male M12	1x2x22AWG/19	PVC	Straight female M12	5M
ZL7402333	Right angled male M12	1x2x22AWG/19	PVC	Straight female M12	10M
ZL7402334	Right angled male M12	1x2x22AWG/19	PUR	Straight female M12	1M
ZL7402335	Right angled male M12	1x2x22AWG/19	PUR	Straight female M12	3M
ZL7402336	Right angled male M12	1x2x22AWG/19	PUR	Straight female M12	5M
ZL7402337	Right angled male M12	1x2x22AWG/19	PUR	Straight female M12	10M
ZL7402338	Straight male M12	1x2x22AWG/19	PVC	Right angled female M12	1M
ZL7402339	Straight male M12	1x2x22AWG/19	PVC	Right angled female M12	3M
ZL7402340	Straight male M12	1x2x22AWG/19	PVC	Right angled female M12	5M
ZL7402341	Straight male M12	1x2x22AWG/19	PVC	Right angled female M12	10M
ZL7402342	Straight male M12	1x2x22AWG/19	PUR	Right angled female M12	1M
ZL7402343	Straight male M12	1x2x22AWG/19	PUR	Right angled female M12	3M
ZL7402344	Straight male M12	1x2x22AWG/19	PUR	Right angled female M12	5M
ZL7402345	Straight male M12	1x2x22AWG/19	PUR	Right angled female M12	10M

Connection Technology (Bus cable assemblies)

DeviceNet/CANopen Assemblies M12-M12



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment, designed for DeviceNet&CANopen. Suitable for flexible use and indoor installation.

Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -40°C ~80°C
 - PUR : -40°C ~80°C
 - Mobile Application :
 - PVC : -5°C ~70°C
 - PUR : -20°C ~80°C
- Characteristic Impedance
 - 150±15Ω@1MHz
- Protection Classification
 - IP67
- Coding
 - A
- Minimum Bending Radius
 - Fixed Application : 10D(D=cable diameter)
 - Mobile Application : 15D(D=cable diameter)



Cable Construction

Conductor : fine stranded bare copper wire
 Insulation : Foamed PE(signal pair), PE(power pair)
 Shield : AL/Mylar individual screen and tinned copper wire overall braid
 Jacket : PVC/PUR
 Color: purple (similar to RAL 4001)
 Patchcord with both ends of 5 core M12 connectors

Properties

Cable flame resistance according IEC60332-1
 Have excellent performance of resistant to external EMI
 Resistant to abrasion and oil, especially for PUR
 Long service life
 Flexible use, can change equipments easily
 Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7402346	Straight male M12	2x22AWG+2x24AWG	PVC	Straight female M12	1M
ZL7402347	Straight male M12	2x22AWG+2x24AWG	PVC	Straight female M12	3M
ZL7402348	Straight male M12	2x22AWG+2x24AWG	PVC	Straight female M12	5M
ZL7402349	Straight male M12	2x22AWG+2x24AWG	PVC	Straight female M12	10M
ZL7402350	Straight male M12	2x22AWG+2x24AWG	PUR	Straight female M12	1M
ZL7402351	Straight male M12	2x22AWG+2x24AWG	PUR	Straight female M12	3M
ZL7402352	Straight male M12	2x22AWG+2x24AWG	PUR	Straight female M12	5M
ZL7402353	Straight male M12	2x22AWG+2x24AWG	PUR	Straight female M12	10M
ZL7402354	Right angled male M12	2x22AWG+2x24AWG	PVC	Straight female M12	1M
ZL7402355	Right angled male M12	2x22AWG+2x24AWG	PVC	Straight female M12	3M
ZL7402356	Right angled male M12	2x22AWG+2x24AWG	PVC	Straight female M12	5M
ZL7402357	Right angled male M12	2x22AWG+2x24AWG	PVC	Straight female M12	10M
ZL7402358	Right angled male M12	2x22AWG+2x24AWG	PUR	Straight female M12	1M
ZL7402359	Right angled male M12	2x22AWG+2x24AWG	PUR	Straight female M12	3M
ZL7402360	Right angled male M12	2x22AWG+2x24AWG	PUR	Straight female M12	5M
ZL7402361	Right angled male M12	2x22AWG+2x24AWG	PUR	Straight female M12	10M
ZL7402362	Straight male M12	2x22AWG+2x24AWG	PVC	Right angled female M12	1M
ZL7402363	Straight male M12	2x22AWG+2x24AWG	PVC	Right angled female M12	3M
ZL7402364	Straight male M12	2x22AWG+2x24AWG	PVC	Right angled female M12	5M
ZL7402365	Straight male M12	2x22AWG+2x24AWG	PVC	Right angled female M12	10M
ZL7402366	Straight male M12	2x22AWG+2x24AWG	PUR	Right angled female M12	1M
ZL7402367	Straight male M12	2x22AWG+2x24AWG	PUR	Right angled female M12	3M
ZL7402368	Straight male M12	2x22AWG+2x24AWG	PUR	Right angled female M12	5M
ZL7402369	Straight male M12	2x22AWG+2x24AWG	PUR	Right angled female M12	10M

Connection Technology(D-SUB assemblies)

DB9 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of serial device and industrial PC. Suitable for fixed application and indoor installation. Shielded type and be used in the place of high electrical interference.



Technical Data

—Temperature Range

Fixed Application : PVC: -20°C ~70°C

During the Installation : PVC : -5°C ~70°C

—Minimum Bending Radius

Fixed Application : 10D(D=cable diameter)

During the Installation : 15D(D=cable diameter)

Cable Construction

Conductor : fine stranded bare copper wire

Insulation : PVC

Shield : AL/Mylar screen(AL) or AL/Mylar screen and tinned copper(AL+Braid)

Jacket : PVC

Color : grey

Assembly with both ends of DB9 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI, especially for double shielded

Long service life

Flexible use, can change equipments easily

Provide a variety of length

Item NO.	Connector	Shielding Type	spec.	jacket	Connector	Length
ZL7402370	Straight male DB9	AL	26AWG	PVC	Straight male DB9	1M
ZL7402371	Straight male DB9	AL	26AWG	PVC	Straight male DB9	3M
ZL7402372	Straight male DB9	AL	26AWG	PVC	Straight male DB9	5M
ZL7402373	Straight male DB9	AL	26AWG	PVC	Straight male DB9	10M
ZL7402374	Straight male DB9	AL+Braid	26AWG	PVC	Straight male DB9	1M
ZL7402375	Straight male DB9	AL+Braid	26AWG	PVC	Straight male DB9	3M
ZL7402376	Straight male DB9	AL+Braid	26AWG	PVC	Straight male DB9	5M
ZL7402377	Straight male DB9	AL+Braid	26AWG	PVC	Straight male DB9	10M
ZL7402378	Straight female DB9	AL	26AWG	PVC	Straight male DB9	1M
ZL7402379	Straight female DB9	AL	26AWG	PVC	Straight male DB9	3M
ZL7402380	Straight female DB9	AL	26AWG	PVC	Straight male DB9	5M
ZL7402381	Straight female DB9	AL	26AWG	PVC	Straight male DB9	10M
ZL7402382	Straight female DB9	AL+Braid	26AWG	PVC	Straight male DB9	1M
ZL7402383	Straight female DB9	AL+Braid	26AWG	PVC	Straight male DB9	3M
ZL7402384	Straight female DB9	AL+Braid	26AWG	PVC	Straight male DB9	5M
ZL7402385	Straight female DB9	AL+Braid	26AWG	PVC	Straight male DB9	10M
ZL7402386	Straight female DB9	AL	26AWG	PVC	Straight female DB9	1M
ZL7402387	Straight female DB9	AL	26AWG	PVC	Straight female DB9	3M
ZL7402388	Straight female DB9	AL	26AWG	PVC	Straight female DB9	5M
ZL7402389	Straight female DB9	AL	26AWG	PVC	Straight female DB9	10M
ZL7402390	Straight female DB9	AL+Braid	26AWG	PVC	Straight female DB9	1M
ZL7402391	Straight female DB9	AL+Braid	26AWG	PVC	Straight female DB9	3M
ZL7402392	Straight female DB9	AL+Braid	26AWG	PVC	Straight female DB9	5M
ZL7402393	Straight female DB9	AL+Braid	26AWG	PVC	Straight female DB9	10M

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High-temperature Cables
Electrical Installation Cables
Medical Cables
Connection Technology
Technical Data

Connection Technology(D-SUB assemblies)

DB15 Assemblies

Application

Suitable for use in automation technology and industrial applications,external interconnection of serial device and industrial PC.Suitable for fixed application and indoor installation.Shielded type and be used in the place of high electrical interference.

Technical Data

- Temperature Range
 - Fixed Application : PVC : -20°C ~-70°C
 - During the Installation : PVC : -5°C ~-70°C
- Minimum Bending Radius
 - Fixed Application : 10D(D=cable diameter)
 - During the Installation : 15D(D=cable diameter)

Cable Construction

- Conductor : fine stranded bare copper wire
- Insulation : PVC
- Shield : AL/Mylar screen(AL) or AL/Mylar screen and tinned copper(AL+Braid)
- Jacket : PVC
- Color : grey
- Assembly with both ends of DB15 connectors



Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI,especially for double shielded
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length

Item NO.	Connector	Shielding Type	spec.	jacket	Connector	Length
ZL7402394	Straight male DB15	AL	26AWG	PVC	Straight male DB15	1M
ZL7402395	Straight male DB15	AL	26AWG	PVC	Straight male DB15	3M
ZL7402396	Straight male DB15	AL	26AWG	PVC	Straight male DB15	5M
ZL7402397	Straight male DB15	AL	26AWG	PVC	Straight male DB15	10M
ZL7402398	Straight male DB15	AL+Braid	26AWG	PVC	Straight male DB15	1M
ZL7402399	Straight male DB15	AL+Braid	26AWG	PVC	Straight male DB15	3M
ZL7402400	Straight male DB15	AL+Braid	26AWG	PVC	Straight male DB15	5M
ZL7402401	Straight male DB15	AL+Braid	26AWG	PVC	Straight male DB15	10M
ZL7402402	Straight female DB15	AL	26AWG	PVC	Straight male DB15	1M
ZL7402403	Straight female DB15	AL	26AWG	PVC	Straight male DB15	3M
ZL7402404	Straight female DB15	AL	26AWG	PVC	Straight male DB15	5M
ZL7402405	Straight female DB15	AL	26AWG	PVC	Straight male DB15	10M
ZL7402406	Straight female DB15	AL+Braid	26AWG	PVC	Straight male DB15	1M
ZL7402407	Straight female DB15	AL+Braid	26AWG	PVC	Straight male DB15	3M
ZL7402408	Straight female DB15	AL+Braid	26AWG	PVC	Straight male DB15	5M
ZL7402409	Straight female DB15	AL+Braid	26AWG	PVC	Straight male DB15	10M
ZL7402410	Straight female DB15	AL	26AWG	PVC	Straight female DB15	1M
ZL7402411	Straight female DB15	AL	26AWG	PVC	Straight female DB15	3M
ZL7402412	Straight female DB15	AL	26AWG	PVC	Straight female DB15	5M
ZL7402413	Straight female DB15	AL	26AWG	PVC	Straight female DB15	10M
ZL7402414	Straight female DB15	AL+Braid	26AWG	PVC	Straight female DB15	1M
ZL7402415	Straight female DB15	AL+Braid	26AWG	PVC	Straight female DB15	3M
ZL7402416	Straight female DB15	AL+Braid	26AWG	PVC	Straight female DB15	5M
ZL7402417	Straight female DB15	AL+Braid	26AWG	PVC	Straight female DB15	10M

Connection Technology(D-SUB assemblies)

DB25 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of serial device and industrial PC. Suitable for fixed application and indoor installation. Shielded type and be used in the place of high electrical interference.



Technical Data

—Temperature Range

Fixed Application : PVC : -20°C ~70°C

During the Installation : PVC : -5°C ~70°C

—Minimum Bending Radius

Fixed Application : 10D(D=cable diameter)

During the Installation : 15D(D=cable diameter)

Cable Construction

Conductor : fine stranded bare copper wire

Insulation : PVC

Shield : AL/Mylar screen(AL) or AL/Mylar screen and tinned copper(AL+Braid)

Jacket : PVC

Color : grey

Assembly with both ends of DB25 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI, especially for double shielded

Long service life

Flexible use, can change equipments easily

Provide a variety of length

Item NO.	Connector	Shielding Type	spec.	jacket	Connector	Length
ZL7402418	Straight male DB25	AL	26AWG	PVC	Straight male DB25	1M
ZL7402419	Straight male DB25	AL	26AWG	PVC	Straight male DB25	3M
ZL7402420	Straight male DB25	AL	26AWG	PVC	Straight male DB25	5M
ZL7402421	Straight male DB25	AL	26AWG	PVC	Straight male DB25	10M
ZL7402422	Straight male DB25	AL+Braid	26AWG	PVC	Straight male DB25	1M
ZL7402423	Straight male DB25	AL+Braid	26AWG	PVC	Straight male DB25	3M
ZL7402424	Straight male DB25	AL+Braid	26AWG	PVC	Straight male DB25	5M
ZL7402425	Straight male DB25	AL+Braid	26AWG	PVC	Straight male DB25	10M
ZL7402426	Straight female DB25	AL	26AWG	PVC	Straight male DB25	1M
ZL7402427	Straight female DB25	AL	26AWG	PVC	Straight male DB25	3M
ZL7402428	Straight female DB25	AL	26AWG	PVC	Straight male DB25	5M
ZL7402429	Straight female DB25	AL	26AWG	PVC	Straight male DB25	10M
ZL7402430	Straight female DB25	AL+Braid	26AWG	PVC	Straight male DB25	1M
ZL7402431	Straight female DB25	AL+Braid	26AWG	PVC	Straight male DB25	3M
ZL7402432	Straight female DB25	AL+Braid	26AWG	PVC	Straight male DB25	5M
ZL7402433	Straight female DB25	AL+Braid	26AWG	PVC	Straight male DB25	10M
ZL7402434	Straight female DB25	AL	26AWG	PVC	Straight female DB25	1M
ZL7402435	Straight female DB25	AL	26AWG	PVC	Straight female DB25	3M
ZL7402436	Straight female DB25	AL	26AWG	PVC	Straight female DB25	5M
ZL7402437	Straight female DB25	AL	26AWG	PVC	Straight female DB25	10M
ZL7402438	Straight female DB25	AL+Braid	26AWG	PVC	Straight female DB25	1M
ZL7402439	Straight female DB25	AL+Braid	26AWG	PVC	Straight female DB25	3M
ZL7402440	Straight female DB25	AL+Braid	26AWG	PVC	Straight female DB25	5M
ZL7402441	Straight female DB25	AL+Braid	26AWG	PVC	Straight female DB25	10M

Connection Technology(D-SUB assemblies)

DB37 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of serial device and industrial PC. Suitable for fixed application and indoor installation. Shielded type and be used in the place of high electrical interference.

Technical Data

- Temperature Range
 - Fixed Application : PVC : -20°C ~70°C
 - During the Installation : PVC : -5°C ~70°C
- Minimum Bending Radius
 - Fixed Application : 10D(D=cable diameter)
 - During the Installation : 15D(D=cable diameter)

Cable Construction

Conductor : fine stranded bare copper wire
 Insulation : PVC
 Shield : AL/Mylar screen(AL) or AL/Mylar screen and tinned copper(AL+Braid)
 Jacket : PVC
 Color : grey
 Assembly with both ends of DB37 connectors

Properties

Cable flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI, especially for double shielded
 Long service life
 Flexible use, can change equipments easily
 Provide a variety of length

Item NO.	Connector	Shielding Type	spec.	jacket	Connector	Length
ZL7402442	Straight male DB37	AL	26AWG	PVC	Straight male DB37	1M
ZL7402443	Straight male DB37	AL	26AWG	PVC	Straight male DB37	3M
ZL7402444	Straight male DB37	AL	26AWG	PVC	Straight male DB37	5M
ZL7402445	Straight male DB37	AL	26AWG	PVC	Straight male DB37	10M
ZL7402446	Straight male DB37	AL+Braid	26AWG	PVC	Straight male DB37	1M
ZL7402447	Straight male DB37	AL+Braid	26AWG	PVC	Straight male DB37	3M
ZL7402448	Straight male DB37	AL+Braid	26AWG	PVC	Straight male DB37	5M
ZL7402449	Straight male DB37	AL+Braid	26AWG	PVC	Straight male DB37	10M
ZL7402450	Straight female DB37	AL	26AWG	PVC	Straight male DB37	1M
ZL7402451	Straight female DB37	AL	26AWG	PVC	Straight male DB37	3M
ZL7402452	Straight female DB37	AL	26AWG	PVC	Straight male DB37	5M
ZL7402453	Straight female DB37	AL	26AWG	PVC	Straight male DB37	10M
ZL7402454	Straight female DB37	AL+Braid	26AWG	PVC	Straight male DB37	1M
ZL7402455	Straight female DB37	AL+Braid	26AWG	PVC	Straight male DB37	3M
ZL7402456	Straight female DB37	AL+Braid	26AWG	PVC	Straight male DB37	5M
ZL7402457	Straight female DB37	AL+Braid	26AWG	PVC	Straight male DB37	10M
ZL7402458	Straight female DB37	AL	26AWG	PVC	Straight female DB37	1M
ZL7402459	Straight female DB37	AL	26AWG	PVC	Straight female DB37	3M
ZL7402460	Straight female DB37	AL	26AWG	PVC	Straight female DB37	5M
ZL7402461	Straight female DB37	AL	26AWG	PVC	Straight female DB37	10M
ZL7402462	Straight female DB37	AL+Braid	26AWG	PVC	Straight female DB37	1M
ZL7402463	Straight female DB37	AL+Braid	26AWG	PVC	Straight female DB37	3M
ZL7402464	Straight female DB37	AL+Braid	26AWG	PVC	Straight female DB37	5M
ZL7402465	Straight female DB37	AL+Braid	26AWG	PVC	Straight female DB37	10M

Connection Technology(Sensor cable assemblies)

3 Pole M8 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation.

Technical Data

—Temperature Range

Fixed Application :

PVC: -40°C ~80°C

PUR: -40°C ~80°C

Mobile Application :

PVC: -5°C ~70°C

PUR: -20°C ~80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)



Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : PVC

Color : Blue, brown, black

Jacket : PVC/PUR

Color : Grey

Patchcord with both ends of 3 pole M8 connectors

Properties

Cable flame resistance according to IEC60332-1

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401021	Straight male M8	3X0.25	PVC	Straight female M8	1M
ZL7401022	Straight male M8	3X0.25	PVC	Straight female M8	3M
ZL7401023	Straight male M8	3X0.25	PVC	Straight female M8	5M
ZL7401024	Right angled male M8	3X0.25	PVC	Straight female M8	1M
ZL7401025	Right angled male M8	3X0.25	PVC	Straight female M8	3M
ZL7401026	Right angled male M8	3X0.25	PVC	Straight female M8	5M
ZL7401027	Straight male M8	3X0.25	PVC	Right angled female M8	1M
ZL7401028	Straight male M8	3X0.25	PVC	Right angled female M8	3M
ZL7401029	Straight male M8	3X0.25	PVC	Right angled female M8	5M
ZL7401030	Straight male M8	3X0.34	PVC	Straight female M8	1M
ZL7401031	Straight male M8	3X0.34	PVC	Straight female M8	3M
ZL7401032	Straight male M8	3X0.34	PVC	Straight female M8	5M
ZL7401033	Right angled male M8	3X0.34	PVC	Straight female M8	1M
ZL7401034	Right angled male M8	3X0.34	PVC	Straight female M8	3M
ZL7401035	Right angled male M8	3X0.34	PVC	Straight female M8	5M
ZL7401036	Straight male M8	3X0.34	PVC	Right angled female M8	1M
ZL7401037	Straight male M8	3X0.34	PVC	Right angled female M8	3M
ZL7401038	Straight male M8	3X0.34	PVC	Right angled female M8	5M
Drag Chain Application					
ZL7401039	Straight male M8	3X0.25	PUR	Straight female M8	1M
ZL7401040	Straight male M8	3X0.25	PUR	Straight female M8	3M
ZL7401041	Straight male M8	3X0.25	PUR	Straight female M8	5M

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 Medical Cables
 Connection Technology
 Technical Data

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401042	Right angled male M8	3X0.25	PUR	Straight female M8	1M
ZL7401043	Right angled male M8	3X0.25	PUR	Straight female M8	3M
ZL7401044	Right angled male M8	3X0.25	PUR	Straight female M8	5M
ZL7401045	Straight male M8	3X0.25	PUR	Right angled female M8	1M
ZL7401046	Straight male M8	3X0.25	PUR	Right angled female M8	3M
ZL7401047	Straight male M8	3X0.25	PUR	Right angled female M8	5M
ZL7401048	Straight male M8	3X0.34	PUR	Straight female M8	1M
ZL7401049	Straight male M8	3X0.34	PUR	Straight female M8	3M
ZL7401050	Straight male M8	3X0.34	PUR	Straight female M8	5M
ZL7401051	Right angled male M8	3X0.34	PUR	Straight female M8	1M
ZL7401052	Right angled male M8	3X0.34	PUR	Straight female M8	3M
ZL7401053	Right angled male M8	3X0.34	PUR	Straight female M8	5M
ZL7401054	Straight male M8	3X0.34	PUR	Right angled female M8	1M
ZL7401055	Straight male M8	3X0.34	PUR	Right angled female M8	3M
ZL7401056	Straight male M8	3X0.34	PUR	Right angled female M8	5M

Connection Technology(Sensor cable assemblies)

3 Pole M8 Shield Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation. Shielded type and be used in the place of high electrical interference.



Technical Data

—Temperature Range

Fixed Application :

PVC: -40°C ~80°C

PUR: -40°C ~80°C

Mobile Application :

PVC: -5°C ~70°C

PUR: -20°C ~80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : PVC

Color : Blue, brown, black

Shield : AL/Mylar screen and tinned copper braiding

Jacket : PVC/PUR

Color : Grey

Patchcord with both ends of 3 pole shielded M8 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401057	Straight male M8	3X0.25	PVC	Straight female M8	1M
ZL7401058	Straight male M8	3X0.25	PVC	Straight female M8	3M
ZL7401059	Straight male M8	3X0.25	PVC	Straight female M8	5M
ZL7401060	Right angled male M8	3X0.25	PVC	Straight female M8	1M
ZL7401061	Right angled male M8	3X0.25	PVC	Straight female M8	3M
ZL7401062	Right angled male M8	3X0.25	PVC	Straight female M8	5M
ZL7401063	Straight male M8	3X0.25	PVC	Right angled female M8	1M
ZL7401064	Straight male M8	3X0.25	PVC	Right angled female M8	3M
ZL7401065	Straight male M8	3X0.25	PVC	Right angled female M8	5M
ZL7401066	Straight male M8	3X0.34	PVC	Straight female M8	1M
ZL7401067	Straight male M8	3X0.34	PVC	Straight female M8	3M
ZL7401068	Straight male M8	3X0.34	PVC	Straight female M8	5M
ZL7401069	Right angled male M8	3X0.34	PVC	Straight female M8	1M
ZL7401070	Right angled male M8	3X0.34	PVC	Straight female M8	3M
ZL7401071	Right angled male M8	3X0.34	PVC	Straight female M8	5M
ZL7401072	Straight male M8	3X0.34	PVC	Right angled female M8	1M
ZL7401073	Straight male M8	3X0.34	PVC	Right angled female M8	3M
ZL7401074	Straight male M8	3X0.34	PVC	Right angled female M8	5M
Drag Chain Application					
ZL7401075	Straight male M8	3X0.25	PUR	Straight female M8	1M
ZL7401076	Straight male M8	3X0.25	PUR	Straight female M8	3M
ZL7401077	Straight male M8	3X0.25	PUR	Straight female M8	5M

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401078	Right angled male M8	3X0.25	PUR	Straight female M8	1M
ZL7401079	Right angled male M8	3X0.25	PUR	Straight female M8	3M
ZL7401080	Right angled male M8	3X0.25	PUR	Straight female M8	5M
ZL7401081	Straight male M8	3X0.25	PUR	Right angled female M8	1M
ZL7401082	Straight male M8	3X0.25	PUR	Right angled female M8	3M
ZL7401083	Straight male M8	3X0.25	PUR	Right angled female M8	5M
ZL7401084	Straight male M8	3X0.34	PUR	Straight female M8	1M
ZL7401085	Straight male M8	3X0.34	PUR	Straight female M8	3M
ZL7401086	Straight male M8	3X0.34	PUR	Straight female M8	5M
ZL7401087	Right angled male M8	3X0.34	PUR	Straight female M8	1M
ZL7401088	Right angled male M8	3X0.34	PUR	Straight female M8	3M
ZL7401089	Right angled male M8	3X0.34	PUR	Straight female M8	5M
ZL7401090	Straight male M8	3X0.34	PUR	Right angled female M8	1M
ZL7401091	Straight male M8	3X0.34	PUR	Right angled female M8	3M
ZL7401092	Straight male M8	3X0.34	PUR	Right angled female M8	5M

Connection Technology(Sensor cable assemblies)

4 Pole M8 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation.



Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~80°C

PUR : -40°C ~80°C

Mobile Application :

PVC : -5°C ~70°C

PUR : -20°C ~80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : PVC

Color : Blue, brown, black, white

Jacket : PVC/PUR

Color : Grey

Patchcord with both ends of 4 pole M8 connectors

Properties

Cable flame resistance according to IEC60332-1

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

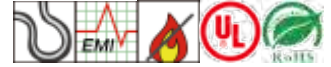
Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401093	Straight male M8	4X0.25	PVC	Straight female M8	1M
ZL7401094	Straight male M8	4X0.25	PVC	Straight female M8	3M
ZL7401095	Straight male M8	4X0.25	PVC	Straight female M8	5M
ZL7401096	Right angled male M8	4X0.25	PVC	Straight female M8	1M
ZL7401097	Right angled male M8	4X0.25	PVC	Straight female M8	3M
ZL7401098	Right angled male M8	4X0.25	PVC	Straight female M8	5M
ZL7401099	Straight male M8	4X0.25	PVC	Right angled female M8	1M
ZL7401100	Straight male M8	4X0.25	PVC	Right angled female M8	3M
ZL7401101	Straight male M8	4X0.25	PVC	Right angled female M8	5M
ZL7401102	Straight male M8	4X0.34	PVC	Straight female M8	1M
ZL7401103	Straight male M8	4X0.34	PVC	Straight female M8	3M
ZL7401104	Straight male M8	4X0.34	PVC	Straight female M8	5M
ZL7401105	Right angled male M8	4X0.34	PVC	Straight female M8	1M
ZL7401106	Right angled male M8	4X0.34	PVC	Straight female M8	3M
ZL7401107	Right angled male M8	4X0.34	PVC	Straight female M8	5M
ZL7401108	Straight male M8	4X0.34	PVC	Right angled female M8	1M
ZL7401109	Straight male M8	4X0.34	PVC	Right angled female M8	3M
ZL7401110	Straight male M8	4X0.34	PVC	Right angled female M8	5M
Drag Chain Application					
ZL7401111	Straight male M8	4X0.25	PUR	Straight female M8	1M
ZL7401112	Straight male M8	4X0.25	PUR	Straight female M8	3M
ZL7401113	Straight male M8	4X0.25	PUR	Straight female M8	5M

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401114	Right angled male M8	4X0.25	PUR	Straight female M8	1M
ZL7401115	Right angled male M8	4X0.25	PUR	Straight female M8	3M
ZL7401116	Right angled male M8	4X0.25	PUR	Straight female M8	5M
ZL7401117	Straight male M8	4X0.25	PUR	Right angled female M8	1M
ZL7401118	Straight male M8	4X0.25	PUR	Right angled female M8	3M
ZL7401119	Straight male M8	4X0.25	PUR	Right angled female M8	5M
ZL7401120	Straight male M8	4X0.34	PUR	Straight female M8	1M
ZL7401121	Straight male M8	4X0.34	PUR	Straight female M8	3M
ZL7401122	Straight male M8	4X0.34	PUR	Straight female M8	5M
ZL7401123	Right angled male M8	4X0.34	PUR	Straight female M8	1M
ZL7401124	Right angled male M8	4X0.34	PUR	Straight female M8	3M
ZL7401125	Right angled male M8	4X0.34	PUR	Straight female M8	5M
ZL7401126	Straight male M8	4X0.34	PUR	Right angled female M8	1M
ZL7401127	Straight male M8	4X0.34	PUR	Right angled female M8	3M
ZL7401128	Straight male M8	4X0.34	PUR	Right angled female M8	5M

Connection Technology(Sensor cable assemblies)

4 Pole M8 Shield Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation. Shielded type and be used in the place of high electrical interference.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -40°C ~-80°C
 - PUR : -40°C ~-80°C
 - Mobile Application :
 - PVC : -5°C ~-70°C
 - PUR : -20°C ~-80°C
- Protection Classification
 - IP67
- Coding
 - A
- Minimum Bending Radius
 - Fixed application :
 - 4D(D=cable diameter)
 - Mobile Application :
 - 7.5D(D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper wire
- Insulation : PVC
- Color : Blue, brown, black, white
- Shield : AL/Mylar screen and tinned copper braiding
- Jacket : PVC/PUR
- Color : Grey
- Patchcord with both ends of 4 pole shielded M8 connectors

Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Resistant to abrasion and oil, especially for PUR
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401129	Straight male M8	4X0.25	PVC	Straight female M8	1M
ZL7401130	Straight male M8	4X0.25	PVC	Straight female M8	3M
ZL7401131	Straight male M8	4X0.25	PVC	Straight female M8	5M
ZL7401132	Right angled male M8	4X0.25	PVC	Straight female M8	1M
ZL7401133	Right angled male M8	4X0.25	PVC	Straight female M8	3M
ZL7401134	Right angled male M8	4X0.25	PVC	Straight female M8	5M
ZL7401135	Straight male M8	4X0.25	PVC	Right angled female M8	1M
ZL7401136	Straight male M8	4X0.25	PVC	Right angled female M8	3M
ZL7401137	Straight male M8	4X0.25	PVC	Right angled female M8	5M
ZL7401138	Straight male M8	4X0.34	PVC	Straight female M8	1M
ZL7401139	Straight male M8	4X0.34	PVC	Straight female M8	3M
ZL7401140	Straight male M8	4X0.34	PVC	Straight female M8	5M
ZL7401141	Right angled male M8	4X0.34	PVC	Straight female M8	1M
ZL7401142	Right angled male M8	4X0.34	PVC	Straight female M8	3M
ZL7401143	Right angled male M8	4X0.34	PVC	Straight female M8	5M
ZL7401144	Straight male M8	4X0.34	PVC	Right angled female M8	1M
ZL7401145	Straight male M8	4X0.34	PVC	Right angled female M8	3M
ZL7401146	Straight male M8	4X0.34	PVC	Right angled female M8	5M
Drag Chain Application					
ZL7401147	Straight male M8	4X0.25	PUR	Straight female M8	1M
ZL7401148	Straight male M8	4X0.25	PUR	Straight female M8	3M
ZL7401149	Straight male M8	4X0.25	PUR	Straight female M8	5M

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401150	Right angled male M8	4X0.25	PUR	Straight female M8	1M
ZL7401151	Right angled male M8	4X0.25	PUR	Straight female M8	3M
ZL7401152	Right angled male M8	4X0.25	PUR	Straight female M8	5M
ZL7401153	Straight male M8	4X0.25	PUR	Right angled female M8	1M
ZL7401154	Straight male M8	4X0.25	PUR	Right angled female M8	3M
ZL7401155	Straight male M8	4X0.25	PUR	Right angled female M8	5M
ZL7401156	Straight male M8	4X0.34	PUR	Straight female M8	1M
ZL7401157	Straight male M8	4X0.34	PUR	Straight female M8	3M
ZL7401158	Straight male M8	4X0.34	PUR	Straight female M8	5M
ZL7401159	Right angled male M8	4X0.34	PUR	Straight female M8	1M
ZL7401160	Right angled male M8	4X0.34	PUR	Straight female M8	3M
ZL7401161	Right angled male M8	4X0.34	PUR	Straight female M8	5M
ZL7401162	Straight male M8	4X0.34	PUR	Right angled female M8	1M
ZL7401163	Straight male M8	4X0.34	PUR	Right angled female M8	3M
ZL7401164	Straight male M8	4X0.34	PUR	Right angled female M8	5M

Connection Technology(Sensor cable assemblies)

5 Pole M8 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation.



Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~-80°C

PUR : -40°C ~-80°C

Mobile Application :

PVC : -5°C ~-70°C

PUR : -20°C ~-80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : PVC

Color : Blue, brown, black,white, yellow/green

Jacket : PVC/PUR

Color : Grey

Patchcord with both ends of 5 pole M8 connectors

Properties

Cable flame resistance according to IEC60332-1

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401165	Straight male M8	5X0.25	PVC	Straight female M8	1M
ZL7401166	Straight male M8	5X0.25	PVC	Straight female M8	3M
ZL7401167	Straight male M8	5X0.25	PVC	Straight female M8	5M
ZL7401168	Right angled male M8	5X0.25	PVC	Straight female M8	1M
ZL7401169	Right angled male M8	5X0.25	PVC	Straight female M8	3M
ZL7401170	Right angled male M8	5X0.25	PVC	Straight female M8	5M
ZL7401171	Straight male M8	5X0.25	PVC	Right angled female M8	1M
ZL7401172	Straight male M8	5X0.25	PVC	Right angled female M8	3M
ZL7401173	Straight male M8	5X0.25	PVC	Right angled female M8	5M
ZL7401174	Straight male M8	5X0.34	PVC	Straight female M8	1M
ZL7401175	Straight male M8	5X0.34	PVC	Straight female M8	3M
ZL7401176	Straight male M8	5X0.34	PVC	Straight female M8	5M
ZL7401177	Right angled male M8	5X0.34	PVC	Straight female M8	1M
ZL7401178	Right angled male M8	5X0.34	PVC	Straight female M8	3M
ZL7401179	Right angled male M8	5X0.34	PVC	Straight female M8	5M
ZL7401180	Straight male M8	5X0.34	PVC	Right angled female M8	1M
ZL7401181	Straight male M8	5X0.34	PVC	Right angled female M8	3M
ZL7401182	Straight male M8	5X0.34	PVC	Right angled female M8	5M
Drag Chain Application					
ZL7401183	Straight male M8	5X0.25	PUR	Straight female M8	1M
ZL7401184	Straight male M8	5X0.25	PUR	Straight female M8	3M
ZL7401185	Straight male M8	5X0.25	PUR	Straight female M8	5M

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401186	Right angled male M8	5X0.25	PUR	Straight female M8	1M
ZL7401187	Right angled male M8	5X0.25	PUR	Straight female M8	3M
ZL7401188	Right angled male M8	5X0.25	PUR	Straight female M8	5M
ZL7401189	Straight male M8	5X0.25	PUR	Right angled female M8	1M
ZL7401190	Straight male M8	5X0.25	PUR	Right angled female M8	3M
ZL7401191	Straight male M8	5X0.25	PUR	Right angled female M8	5M
ZL7401192	Straight male M8	5X0.34	PUR	Straight female M8	1M
ZL7401193	Straight male M8	5X0.34	PUR	Straight female M8	3M
ZL7401194	Straight male M8	5X0.34	PUR	Straight female M8	5M
ZL7401195	Right angled male M8	5X0.34	PUR	Straight female M8	1M
ZL7401196	Right angled male M8	5X0.34	PUR	Straight female M8	3M
ZL7401197	Right angled male M8	5X0.34	PUR	Straight female M8	5M
ZL7401198	Straight male M8	5X0.34	PUR	Right angled female M8	1M
ZL7401199	Straight male M8	5X0.34	PUR	Right angled female M8	3M
ZL7401200	Straight male M8	5X0.34	PUR	Right angled female M8	5M

Connection Technology(Sensor cable assemblies)

5 Pole M8 Shield Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation. Shielded type and be used in the place of high electrical interference.



Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~-80°C

PUR : -40°C ~-80°C

Mobile Application :

PVC : -5°C ~-70°C

PUR : -20°C ~-80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : PVC

Color : Blue, brown, black, white, yellow/green

Shield : AL/Mylar screen and tinned copper braiding

Jacket : PVC/PUR

Color : Grey

Patchcord with both ends of 5 pole shielded M8 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401201	Straight male M8	5X0.25	PVC	Straight female M8	1M
ZL7401202	Straight male M8	5X0.25	PVC	Straight female M8	3M
ZL7401203	Straight male M8	5X0.25	PVC	Straight female M8	5M
ZL7401204	Right angled male M8	5X0.25	PVC	Straight female M8	1M
ZL7401205	Right angled male M8	5X0.25	PVC	Straight female M8	3M
ZL7401206	Right angled male M8	5X0.25	PVC	Straight female M8	5M
ZL7401207	Straight male M8	5X0.25	PVC	Right angled female M8	1M
ZL7401208	Straight male M8	5X0.25	PVC	Right angled female M8	3M
ZL7401209	Straight male M8	5X0.25	PVC	Right angled female M8	5M
ZL7401210	Straight male M8	5X0.34	PVC	Straight female M8	1M
ZL7401211	Straight male M8	5X0.34	PVC	Straight female M8	3M
ZL7401212	Straight male M8	5X0.34	PVC	Straight female M8	5M
ZL7401213	Right angled male M8	5X0.34	PVC	Straight female M8	1M
ZL7401214	Right angled male M8	5X0.34	PVC	Straight female M8	3M
ZL7401215	Right angled male M8	5X0.34	PVC	Straight female M8	5M
ZL7401216	Straight male M8	5X0.34	PVC	Right angled female M8	1M
ZL7401217	Straight male M8	5X0.34	PVC	Right angled female M8	3M
ZL7401218	Straight male M8	5X0.34	PVC	Right angled female M8	5M
Drag Chain Application					
ZL7401219	Straight male M8	5X0.25	PUR	Straight female M8	1M
ZL7401220	Straight male M8	5X0.25	PUR	Straight female M8	3M
ZL7401221	Straight male M8	5X0.25	PUR	Straight female M8	5M

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401222	Right angled male M8	5X0.25	PUR	Straight female M8	1M
ZL7401223	Right angled male M8	5X0.25	PUR	Straight female M8	3M
ZL7401224	Right angled male M8	5X0.25	PUR	Straight female M8	5M
ZL7401225	Straight male M8	5X0.25	PUR	Right angled female M8	1M
ZL7401226	Straight male M8	5X0.25	PUR	Right angled female M8	3M
ZL7401227	Straight male M8	5X0.25	PUR	Right angled female M8	5M
ZL7401228	Straight male M8	5X0.34	PUR	Straight female M8	1M
ZL7401229	Straight male M8	5X0.34	PUR	Straight female M8	3M
ZL7401230	Straight male M8	5X0.34	PUR	Straight female M8	5M
ZL7401231	Right angled male M8	5X0.34	PUR	Straight female M8	1M
ZL7401232	Right angled male M8	5X0.34	PUR	Straight female M8	3M
ZL7401233	Right angled male M8	5X0.34	PUR	Straight female M8	5M
ZL7401234	Straight male M8	5X0.34	PUR	Right angled female M8	1M
ZL7401235	Straight male M8	5X0.34	PUR	Right angled female M8	3M
ZL7401236	Straight male M8	5X0.34	PUR	Right angled female M8	5M

Connection Technology(Sensor cable assemblies)

3 Pole M12 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation.

Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -40°C ~-80°C
 - PUR : -40°C ~-80°C
 - Mobile Application :
 - PVC : -5°C ~-70°C
 - PUR : -20°C ~-80°C
- Protection Classification
 - IP67
- Coding
 - A
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application :
 - 7.5D(D=cable diameter)



Cable Construction

- Conductor : Fine stranded bare copper wire
- Insulation : PVC
- Color : Blue, brown, black
- Jacket : PVC/PUR
- Color : Grey
- Patchcord with both ends of 3 pole M12 connectors

Properties

- Cable flame resistance according to IEC60332-1
- Resistant to abrasion and oil, especially for PUR
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath

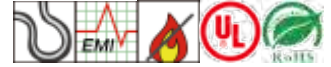
Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401237	Straight male M12	3X0.25	PVC	Straight female M12	1M
ZL7401238	Straight male M12	3X0.25	PVC	Straight female M12	3M
ZL7401239	Straight male M12	3X0.25	PVC	Straight female M12	5M
ZL7401240	Right angled male M12	3X0.25	PVC	Straight female M12	1M
ZL7401241	Right angled male M12	3X0.25	PVC	Straight female M12	3M
ZL7401242	Right angled male M12	3X0.25	PVC	Straight female M12	5M
ZL7401243	Straight male M12	3X0.25	PVC	Right angled female M12	1M
ZL7401244	Straight male M12	3X0.25	PVC	Right angled female M12	3M
ZL7401245	Straight male M12	3X0.25	PVC	Right angled female M12	5M
ZL7401246	Straight male M12	3X0.34	PVC	Straight female M12	1M
ZL7401247	Straight male M12	3X0.34	PVC	Straight female M12	3M
ZL7401248	Straight male M12	3X0.34	PVC	Straight female M12	5M
ZL7401249	Right angled male M12	3X0.34	PVC	Straight female M12	1M
ZL7401250	Right angled male M12	3X0.34	PVC	Straight female M12	3M
ZL7401251	Right angled male M12	3X0.34	PVC	Straight female M12	5M
ZL7401252	Straight male M12	3X0.34	PVC	Right angled female M12	1M
ZL7401253	Straight male M12	3X0.34	PVC	Right angled female M12	3M
ZL7401254	Straight male M12	3X0.34	PVC	Right angled female M12	5M
Drag Chain Application					
ZL7401255	Straight male M12	3X0.25	PUR	Straight female M12	1M
ZL7401256	Straight male M12	3X0.25	PUR	Straight female M12	3M
ZL7401257	Straight male M12	3X0.25	PUR	Straight female M12	5M

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401258	Right angled male M12	3X0.25	PUR	Straight female M12	1M
ZL7401259	Right angled male M12	3X0.25	PUR	Straight female M12	3M
ZL7401260	Right angled male M12	3X0.25	PUR	Straight female M12	5M
ZL7401261	Straight male M12	3X0.25	PUR	Right angled female M12	1M
ZL7401262	Straight male M12	3X0.25	PUR	Right angled female M12	3M
ZL7401263	Straight male M12	3X0.25	PUR	Right angled female M12	5M
ZL7401264	Straight male M12	3X0.34	PUR	Straight female M12	1M
ZL7401265	Straight male M12	3X0.34	PUR	Straight female M12	3M
ZL7401266	Straight male M12	3X0.34	PUR	Straight female M12	5M
ZL7401267	Right angled male M12	3X0.34	PUR	Straight female M12	1M
ZL7401268	Right angled male M12	3X0.34	PUR	Straight female M12	3M
ZL7401269	Right angled male M12	3X0.34	PUR	Straight female M12	5M
ZL7401270	Straight male M12	3X0.34	PUR	Right angled female M12	1M
ZL7401271	Straight male M12	3X0.34	PUR	Right angled female M12	3M
ZL7401272	Straight male M12	3X0.34	PUR	Right angled female M12	5M

Connection Technology(Sensor cable assemblies)

3 Pole M12 Shield Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation. Shielded type and be used in the place of high electrical interference.



Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -40°C ~80°C
 - PUR : -40°C ~80°C
 - Mobile Application :
 - PVC : -5°C ~70°C
 - PUR : -20°C ~80°C
- Protection Classification
 - IP67
- Coding
 - A
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application:
 - 7.5D(D=cable diameter)

Cable Construction

- Conductor : Fine stranded bare copper wire
- Insulation : PVC
- Color : Blue, brown, black
- Shield : AL/Mylar screen and tinned copper braiding
- Jacket : PVC/PUR
- Color : Grey
- Patchcord with both ends of 3 pole shielded M12 connectors

Properties

- Cable flame resistance according to IEC60332-1
- Have excellent performance of resistant to external EMI
- Resistant to abrasion and oil, especially for PUR
- Long service life
- Flexible use, can change equipments easily
- Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401273	Straight male M12	3X0.25	PVC	Straight female M12	1M
ZL7401274	Straight male M12	3X0.25	PVC	Straight female M12	3M
ZL7401275	Straight male M12	3X0.25	PVC	Straight female M12	5M
ZL7401276	Right angled male M12	3X0.25	PVC	Straight female M12	1M
ZL7401277	Right angled male M12	3X0.25	PVC	Straight female M12	3M
ZL7401278	Right angled male M12	3X0.25	PVC	Straight female M12	5M
ZL7401279	Straight male M12	3X0.25	PVC	Right angled female M12	1M
ZL7401280	Straight male M12	3X0.25	PVC	Right angled female M12	3M
ZL7401281	Straight male M12	3X0.25	PVC	Right angled female M12	5M
ZL7401282	Straight male M12	3X0.34	PVC	Straight female M12	1M
ZL7401283	Straight male M12	3X0.34	PVC	Straight female M12	3M
ZL7401284	Straight male M12	3X0.34	PVC	Straight female M12	5M
ZL7401285	Right angled male M12	3X0.34	PVC	Straight female M12	1M
ZL7401286	Right angled male M12	3X0.34	PVC	Straight female M12	3M
ZL7401287	Right angled male M12	3X0.34	PVC	Straight female M12	5M
ZL7401288	Straight male M12	3X0.34	PVC	Right angled female M12	1M
ZL7401289	Straight male M12	3X0.34	PVC	Right angled female M12	3M
ZL7401290	Straight male M12	3X0.34	PVC	Right angled female M12	5M
Drag Chain Application					
ZL7401291	Straight male M12	3X0.25	PUR	Straight female M12	1M
ZL7401292	Straight male M12	3X0.25	PUR	Straight female M12	3M
ZL7401293	Straight male M12	3X0.25	PUR	Straight female M12	5M

LONGTRONIC™ Ethernet Cables
 Bus Cables
 Low-Frequency Data Cables
 Sensor Cables
 LONGHEX™ Motion Control Cables
 Towing Cables
 Servo Cables
 Robot Cables
 High-temperature Cables
 Electrical Installation Cables
 Medical Cables
 Connection Technology
 Technical Data

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401294	Right angled male M12	3X0.25	PUR	Straight female M12	1M
ZL7401295	Right angled male M12	3X0.25	PUR	Straight female M12	3M
ZL7401296	Right angled male M12	3X0.25	PUR	Straight female M12	5M
ZL7401297	Straight male M12	3X0.25	PUR	Right angled female M12	1M
ZL7401298	Straight male M12	3X0.25	PUR	Right angled female M12	3M
ZL7401299	Straight male M12	3X0.25	PUR	Right angled female M12	5M
ZL7401300	Straight male M12	3X0.34	PUR	Straight female M12	1M
ZL7401301	Straight male M12	3X0.34	PUR	Straight female M12	3M
ZL7401302	Straight male M12	3X0.34	PUR	Straight female M12	5M
ZL7401303	Right angled male M12	3X0.34	PUR	Straight female M12	1M
ZL7401304	Right angled male M12	3X0.34	PUR	Straight female M12	3M
ZL7401305	Right angled male M12	3X0.34	PUR	Straight female M12	5M
ZL7401306	Straight male M12	3X0.34	PUR	Right angled female M12	1M
ZL7401307	Straight male M12	3X0.34	PUR	Right angled female M12	3M
ZL7401308	Straight male M12	3X0.34	PUR	Right angled female M12	5M

Connection Technology(Sensor cable assemblies)

4 Pole M12 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation.

Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -40°C ~-80°C
 - PUR : -40°C ~-80°C
 - Mobile Application :
 - PVC : : -5°C ~-70°C
 - PUR : -20°C ~-80°C
- Protection Classification
 - IP67
- Coding
 - A
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application :
 - 7.5D(D=cable diameter)



Cable Construction

Conductor : Fine stranded bare copper wire
 Insulation : PVC
 Color : Blue, brown, black, white
 Jacket : PVC/PUR
 Color : Grey
 Patchcord with both ends of 4 pole M12 connectors

Properties

Cable flame resistance according to IEC60332-1
 Resistant to abrasion and oil
 Long service life
 Flexible use, can change equipments easily
 Provide a variety of length and sheath

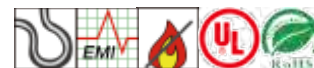
Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401309	Straight male M12	4X0.25	PVC	Straight female M12	1M
ZL7401310	Straight male M12	4X0.25	PVC	Straight female M12	3M
ZL7401311	Straight male M12	4X0.25	PVC	Straight female M12	5M
ZL7401312	Right angled male M12	4X0.25	PVC	Straight female M12	1M
ZL7401313	Right angled male M12	4X0.25	PVC	Straight female M12	3M
ZL7401314	Right angled male M12	4X0.25	PVC	Straight female M12	5M
ZL7401315	Straight male M12	4X0.25	PVC	Right angled female M12	1M
ZL7401316	Straight male M12	4X0.25	PVC	Right angled female M12	3M
ZL7401317	Straight male M12	4X0.25	PVC	Right angled female M12	5M
ZL7401318	Straight male M12	4X0.34	PVC	Straight female M12	1M
ZL7401319	Straight male M12	4X0.34	PVC	Straight female M12	3M
ZL7401320	Straight male M12	4X0.34	PVC	Straight female M12	5M
ZL7401321	Right angled male M12	4X0.34	PVC	Straight female M12	1M
ZL7401322	Right angled male M12	4X0.34	PVC	Straight female M12	3M
ZL7401323	Right angled male M12	4X0.34	PVC	Straight female M12	5M
ZL7401324	Straight male M12	4X0.34	PVC	Right angled female M12	1M
ZL7401325	Straight male M12	4X0.34	PVC	Right angled female M12	3M
ZL7401326	Straight male M12	4X0.34	PVC	Right angled female M12	5M
Drag Chain Application					
ZL7401327	Straight male M12	4X0.25	PUR	Straight female M12	1M
ZL7401328	Straight male M12	4X0.25	PUR	Straight female M12	3M
ZL7401329	Straight male M12	4X0.25	PUR	Straight female M12	5M

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401330	Right angled male M12	4X0.25	PUR	Straight female M12	1M
ZL7401331	Right angled male M12	4X0.25	PUR	Straight female M12	3M
ZL7401332	Right angled male M12	4X0.25	PUR	Straight female M12	5M
ZL7401333	Straight male M12	4X0.25	PUR	Right angled female M12	1M
ZL7401334	Straight male M12	4X0.25	PUR	Right angled female M12	3M
ZL7401335	Straight male M12	4X0.25	PUR	Right angled female M12	5M
ZL7401336	Straight male M12	4X0.34	PUR	Straight female M12	1M
ZL7401337	Straight male M12	4X0.34	PUR	Straight female M12	3M
ZL7401338	Straight male M12	4X0.34	PUR	Straight female M12	5M
ZL7401339	Right angled male M12	4X0.34	PUR	Straight female M12	1M
ZL7401340	Right angled male M12	4X0.34	PUR	Straight female M12	3M
ZL7401341	Right angled male M12	4X0.34	PUR	Straight female M12	5M
ZL7401342	Straight male M12	4X0.34	PUR	Right angled female M12	1M
ZL7401343	Straight male M12	4X0.34	PUR	Right angled female M12	3M
ZL7401344	Straight male M12	4X0.34	PUR	Right angled female M12	5M

Connection Technology(Sensor cable assemblies)

4 Pole M12 Shield Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation. Shielded type and be used in the place of high electrical interference.



Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~80°C

PUR : -40°C ~80°C

Mobile Application :

PVC : -5°C ~70°C

PUR : -20°C ~80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : PVC

Color : Blue, brown, black, white

Shield : AL/Mylar screen and tinned copper braiding

Jacket : PVC/PUR

Color : Grey

Patchcord with both ends of 4 pole shielded M12 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI

Resistant to abrasion and oil, especially for PUR

Long service life

Flexible use, can change equipments easily

Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401345	Straight male M12	4X0.25	PVC	Straight female M12	1M
ZL7401346	Straight male M12	4X0.25	PVC	Straight female M12	3M
ZL7401347	Straight male M12	4X0.25	PVC	Straight female M12	5M
ZL7401348	Right angled male M12	4X0.25	PVC	Straight female M12	1M
ZL7401349	Right angled male M12	4X0.25	PVC	Straight female M12	3M
ZL7401350	Right angled male M12	4X0.25	PVC	Straight female M12	5M
ZL7401351	Straight male M12	4X0.25	PVC	Right angled female M12	1M
ZL7401352	Straight male M12	4X0.25	PVC	Right angled female M12	3M
ZL7401353	Straight male M12	4X0.25	PVC	Right angled female M12	5M
ZL7401354	Straight male M12	4X0.34	PVC	Straight female M12	1M
ZL7401355	Straight male M12	4X0.34	PVC	Straight female M12	3M
ZL7401356	Straight male M12	4X0.34	PVC	Straight female M12	5M
ZL7401357	Right angled male M12	4X0.34	PVC	Straight female M12	1M
ZL7401358	Right angled male M12	4X0.34	PVC	Straight female M12	3M
ZL7401359	Right angled male M12	4X0.34	PVC	Straight female M12	5M
ZL7401360	Straight male M12	4X0.34	PVC	Right angled female M12	1M
ZL7401361	Straight male M12	4X0.34	PVC	Right angled female M12	3M
ZL7401362	Straight male M12	4X0.34	PVC	Right angled female M12	5M
Drag Chain Application					
ZL7401363	Straight male M12	4X0.25	PUR	Straight female M12	1M
ZL7401364	Straight male M12	4X0.25	PUR	Straight female M12	3M
ZL7401365	Straight male M12	4X0.25	PUR	Straight female M12	5M

Connection Technology(Sensor cable assemblies)

Item NO.	Connector	spec.	jacket	Connector	Length
ZL7401366	Right angled male M12	4X0.25	PUR	Straight female M12	1M
ZL7401367	Right angled male M12	4X0.25	PUR	Straight female M12	3M
ZL7401368	Right angled male M12	4X0.25	PUR	Straight female M12	5M
ZL7401369	Straight male M12	4X0.25	PUR	Right angled female M12	1M
ZL7401370	Straight male M12	4X0.25	PUR	Right angled female M12	3M
ZL7401371	Straight male M12	4X0.25	PUR	Right angled female M12	5M
ZL7401372	Straight male M12	4X0.34	PUR	Straight female M12	1M
ZL7401373	Straight male M12	4X0.34	PUR	Straight female M12	3M
ZL7401374	Straight male M12	4X0.34	PUR	Straight female M12	5M
ZL7401375	Right angled male M12	4X0.34	PUR	Straight female M12	1M
ZL7401376	Right angled male M12	4X0.34	PUR	Straight female M12	3M
ZL7401377	Right angled male M12	4X0.34	PUR	Straight female M12	5M
ZL7401378	Straight male M12	4X0.34	PUR	Right angled female M12	1M
ZL7401379	Straight male M12	4X0.34	PUR	Right angled female M12	3M
ZL7401380	Straight male M12	4X0.34	PUR	Right angled female M12	5M

Connection Technology(Sensor cable assemblies)

5 Pole M12 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation.

Technical Data

—Temperature Range

Fixed Application :

PVC : -40°C ~80°C

PUR : -40°C ~80°C

Mobile Application :

PVC : -5°C ~70°C

PUR : -20°C ~80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)



Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : PVC

Color : Blue, brown, black, white, yellow/green

Jacket : PVC/PUR

Color : Grey

Patchcord with both ends of 5 pole M12 connectors

Properties

Cable flame resistance according to IEC60332-1

Resistant to abrasion and oil, especially for PUR

Long service life

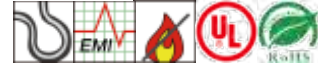
Flexible use, can change equipments easily

Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401381	Straight male M12	5X0.34	PVC	Straight female M12	1M
ZL7401382	Straight male M12	5X0.34	PVC	Straight female M12	3M
ZL7401383	Straight male M12	5X0.34	PVC	Straight female M12	5M
ZL7401384	Right angled male M12	5X0.34	PVC	Straight female M12	1M
ZL7401385	Right angled male M12	5X0.34	PVC	Straight female M12	3M
ZL7401386	Right angled male M12	5X0.34	PVC	Straight female M12	5M
ZL7401387	Straight male M12	5X0.34	PVC	Right angled female M12	1M
ZL7401388	Straight male M12	5X0.34	PVC	Right angled female M12	3M
ZL7401389	Straight male M12	5X0.34	PVC	Right angled female M12	5M
Drag Chain Application					
ZL7401390	Straight male M12	5X0.34	PUR	Straight female M12	1M
ZL7401391	Straight male M12	5X0.34	PUR	Straight female M12	3M
ZL7401392	Straight male M12	5X0.34	PUR	Straight female M12	5M
ZL7401393	Right angled male M12	5X0.34	PUR	Straight female M12	1M
ZL7401394	Right angled male M12	5X0.34	PUR	Straight female M12	3M
ZL7401395	Right angled male M12	5X0.34	PUR	Straight female M12	5M
ZL7401396	Straight male M12	5X0.34	PUR	Right angled female M12	1M
ZL7401397	Straight male M12	5X0.34	PUR	Right angled female M12	3M
ZL7401398	Straight male M12	5X0.34	PUR	Right angled female M12	5M

Connection Technology(Sensor cable assemblies)

5 Pole M12 Shield Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation. Shielded type and be used in the place of high electrical interference.

Technical Data

- Temperature Range
 - Fixed Application :
 - PVC : -40°C ~80°C
 - PUR : -40°C ~80°C
 - Mobile Application :
 - PVC : -5°C ~70°C
 - PUR : -20°C ~80°C
- Protection Classification
 - IP67
- Coding
 - A
- Minimum Bending Radius
 - Fixed Application :
 - 4D(D=cable diameter)
 - Mobile Application :
 - 7.5D(D=cable diameter)



Cable Construction

Conductor : Fine stranded bare copper wire
 Insulation : PVC
 Color : Blue, brown, black, white, yellow/green
 Shield : AL/Mylar screen and tinned copper braiding
 Jacket : PVC/PUR
 Color : Grey
 Patchcord with both ends of 5 pole shielded M12 connectors

Properties

Cable flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI
 Resistant to abrasion and oil, especially for PUR
 Long service life
 Flexible use, can change equipments easily
 Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401389	Straight male M12	5X0.34	PVC	Straight female M12	1M
ZL7401390	Straight male M12	5X0.34	PVC	Straight female M12	3M
ZL7401391	Straight male M12	5X0.34	PVC	Straight female M12	5M
ZL7401392	Right angled male M12	5X0.34	PVC	Straight female M12	1M
ZL7401393	Right angled male M12	5X0.34	PVC	Straight female M12	3M
ZL7401394	Right angled male M12	5X0.34	PVC	Straight female M12	5M
ZL7401395	Straight male M12	5X0.34	PVC	Right angled female M12	1M
ZL7401396	Straight male M12	5X0.34	PVC	Right angled female M12	3M
ZL7401397	Straight male M12	5X0.34	PVC	Right angled female M12	5M
Drag Chain Application					
ZL7401398	Straight male M12	5X0.34	PUR	Straight female M12	1M
ZL7401399	Straight male M12	5X0.34	PUR	Straight female M12	3M
ZL7401400	Straight male M12	5X0.34	PUR	Straight female M12	5M
ZL7401401	Right angled male M12	5X0.34	PUR	Straight female M12	1M
ZL7401402	Right angled male M12	5X0.34	PUR	Straight female M12	3M
ZL7401403	Right angled male M12	5X0.34	PUR	Straight female M12	5M
ZL7401404	Straight male M12	5X0.34	PUR	Right angled female M12	1M
ZL7401405	Straight male M12	5X0.34	PUR	Right angled female M12	3M
ZL7401406	Straight male M12	5X0.34	PUR	Right angled female M12	5M

Connection Technology(Sensor cable assemblies)

8 Pole M12 Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation.

Technical Data

—Temperature Range

Fixed Application:

PVC : -40°C ~80°C

PUR : -40°C ~80°C

Mobile Application :

PVC : -5°C ~70°C

PUR : -20°C ~80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Mobile Application :

7.5D(D=cable diameter)



Cable Construction

Conductor : Fine stranded bare copper wire

Insulation : PVC

Color : Brown, white, green, yellow, grey, pink, blue, red

Jacket : PVC/PUR

Color : Grey

Patchcord with both ends of 8 pole M12 connectors

Properties

Cable flame resistance according to IEC60332-1

Resistant to abrasion and oil, especially for PUR

Long service life

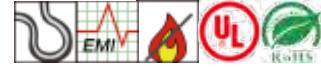
Flexible use, can change equipments easily

Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401407	Straight male M12	8X0.25	PVC	Straight female M12	1M
ZL7401408	Straight male M12	8X0.25	PVC	Straight female M12	3M
ZL7401409	Straight male M12	8X0.25	PVC	Straight female M12	5M
ZL7401410	Right angled male M12	8X0.25	PVC	Straight female M12	1M
ZL7401411	Right angled male M12	8X0.25	PVC	Straight female M12	3M
ZL7401412	Right angled male M12	8X0.25	PVC	Straight female M12	5M
ZL7401413	Straight male M12	8X0.25	PVC	Right angled female M12	1M
ZL7401414	Straight male M12	8X0.25	PVC	Right angled female M12	3M
ZL7401415	Straight male M12	8X0.25	PVC	Right angled female M12	5M
Drag Chain Application					
ZL7401416	Straight male M12	8X0.25	PUR	Straight female M12	1M
ZL7401417	Straight male M12	8X0.25	PUR	Straight female M12	3M
ZL7401418	Straight male M12	8X0.25	PUR	Straight female M12	5M
ZL7401419	Right angled male M12	8X0.25	PUR	Straight female M12	1M
ZL7401420	Right angled male M12	8X0.25	PUR	Straight female M12	3M
ZL7401421	Right angled male M12	8X0.25	PUR	Straight female M12	5M
ZL7401422	Straight male M12	8X0.25	PUR	Right angled female M12	1M
ZL7401423	Straight male M12	8X0.25	PUR	Right angled female M12	3M
ZL7401424	Straight male M12	8X0.25	PUR	Right angled female M12	5M

Connection Technology(Sensor cable assemblies)

8 Pole M12 Shield Assemblies



Application

Suitable for use in automation technology and industrial applications, external interconnection of electronic equipment. Suitable for flexible use and indoor installation. Shielded type and be used in the place of high electrical interference.

Technical Data

—Temperature Range

Fixed Application:
 PVC : -40°C ~80°C
 PUR : -40°C ~80°C

Mobile Application :
 PVC : -5°C ~70°C
 PUR : -20°C ~80°C

—Protection Classification

IP67

—Coding

A

—Minimum Bending Radius

Fixed Application :
 4D(D=cable diameter)
 Mobile Application :
 7.5D(D=cable diameter)

Cable Construction

Conductor : Fine stranded bare copper wire
 Insulation : PVC
 Color : Brown, white, green, yellow, grey, pink, blue, red
 Shield : AL/Mylar screen and tinned copper
 Jacket : PVC/PUR
 Color : Grey
 Patchcord with both ends of 8 pole shielded M12 connectors

Properties

Cable flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI
 Resistant to abrasion and oil, especially for PUR
 Long service life
 Flexible use, can change equipments easily
 Provide a variety of length and sheath

Item NO.	Connector	spec.	jacket	Connector	Length
Fixed Application Or Occasional Mobile Use					
ZL7401425	Straight male M12	8X0.25	PVC	Straight female M12	1M
ZL7401426	Straight male M12	8X0.25	PVC	Straight female M12	3M
ZL7401427	Straight male M12	8X0.25	PVC	Straight female M12	5M
ZL7401428	Right angled male M12	8X0.25	PVC	Straight female M12	1M
ZL7401429	Right angled male M12	8X0.25	PVC	Straight female M12	3M
ZL7401430	Right angled male M12	8X0.25	PVC	Straight female M12	5M
ZL7401431	Straight male M12	8X0.25	PVC	Right angled female M12	1M
ZL7401432	Straight male M12	8X0.25	PVC	Right angled female M12	3M
ZL7401433	Straight male M12	8X0.25	PVC	Right angled female M12	5M
Drag Chain Application					
ZL7401434	Straight male M12	8X0.25	PUR	Straight female M12	1M
ZL7401435	Straight male M12	8X0.25	PUR	Straight female M12	3M
ZL7401436	Straight male M12	8X0.25	PUR	Straight female M12	5M
ZL7401437	Right angled male M12	8X0.25	PUR	Straight female M12	1M
ZL7401438	Right angled male M12	8X0.25	PUR	Straight female M12	3M
ZL7401439	Right angled male M12	8X0.25	PUR	Straight female M12	5M
ZL7401440	Straight male M12	8X0.25	PUR	Right angled female M12	1M
ZL7401441	Straight male M12	8X0.25	PUR	Right angled female M12	3M
ZL7401442	Straight male M12	8X0.25	PUR	Right angled female M12	5M

Connection Technology(Servo motor special assemblies)

Servo Motor Assemblies



Application

Can be used as connecting cables between motor and converter , or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference.Very suitable for drag chain or frequent movement.



Technical Data

—Temperature Range

Fixed Application:

-40°C ~105°C

Moved Application:

-5°C ~105°C

—Cable Rated Voltage

600V

—Cable Test Voltage

core/core :

4000V/min (AC)

core/shield :

4000V/min (AC)

—Minimum Bending Radius

Fixed Application :

4D(D=cable diameter)

Moved Application :

7.5D(D=cable diameter)

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6

Insulation : PVC

Insulation Color : according to DIN VDE 0293; black cores with white numerals; with Green/yellow

Shield : Control pair tinned copper braiding, tinned copper overall braiding

Jacket : PVC

Color : Grey (similar to RAL 7001)

One end with M23 connectors

Properties

Cable flame resistance according to IEC60332-1

Have excellent performance of resistant to external EMI

Resistant to abrasion and oil

Long service life

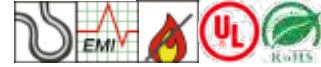
High flexible use, can be used for drag chain

Provide a variety of length

Item NO.	Cable style	spec. (mm ²)	Nom.diameter (mm)	jacket	Length
ZL7401001	FD 318 CY	4G1.5	9	PVC	5M
ZL7401002	FD 318 CY	4G1.5	9	PVC	10M
ZL7401003	FD 318 CY	4G2.5	10.1	PVC	5M
ZL7401004	FD 318 CY	4G1.5	10.1	PVC	10M
ZL7401005	FD 318 CY	4G0.75+(2X0.5)	9.4	PVC	5M
ZL7401006	FD 318 CY	4G0.75+(2X0.5)	9.4	PVC	10M
ZL7401007	FD 318 CY	4G1.5+(2X1.5)	11.1	PVC	5M
ZL7401008	FD 318 CY	4G1.5+(2X1.5)	11.1	PVC	10M
ZL7401009	FD 318 CY	4G2.5+(2X1.5)	12.5	PVC	5M
ZL7401010	FD 318 CY	4G2.5+(2X1.5)	12.5	PVC	10M

Connection Technology(Servo motor special assemblies)

Servo Motor Assemblies



Application

Can be used as connecting cables between motor and converter , or controller and motor of CNC machine tools, robots and other automation equipments. Intended for the place of high electrical interference.Very suitable for drag chain or frequent movement in oil and wet environment.

Technical Data

- Temperature Range
 - Fixed Application: -40°C ~80°C
 - Moved Application: -40°C ~80°C
- Cable Rated Voltage 600V
- Cable Test Voltage core/core : 4000V/min (AC) core/shield : 4000V/min (AC)
- Minimum Bending Radius
 - Fixed Application : 4D(D=cable diameter)
 - Moved Application : 7.5D(D=cable diameter)

Cable Construction

Conductor : Ultra-fine stranded bare copper, according to IEC 60228/VDE 0295 class 6
 Insulation : TPE
 Insulation Color: according to DIN VDE 0293; black cores with white numberals; with Green/yellow
 Shield : Control pair tinned copper braiding, tinned copper overall braiding
 Jacket : PUR
 Color : Orange (similar to RAL 2003)
 One end with M23 connectors

Properties

Cable flame resistance according to IEC60332-1
 Have excellent performance of resistant to external EMI
 Resistant to abrasion and oil
 Long service life
 High flexible use, can be used for drag chain
 Provide a variety of length

Item NO.	Cable style	spec. (mm ²)	Nom.diameter (mm)	jacket	Length
ZL7401011	FD 330 CP	4G1.5	9	PUR	5M
ZL7401012	FD 330 CP	4G1.5	9	PUR	10M
ZL7401013	FD 330 CP	4G2.5	10.1	PUR	5M
ZL7401014	FD 330 CP	4G2.5	10.1	PUR	10M
ZL7401015	FD 330 CP	4G0.75+(2X0.5)	9.4	PUR	5M
ZL7401016	FD 330 CP	4G0.75+(2X0.5)	9.4	PUR	10M
ZL7401017	FD 330 CP	4G1.5+(2X1.5)	11.1	PUR	5M
ZL7401018	FD 330 CP	4G1.5+(2X1.5)	11.1	PUR	10M
ZL7401019	FD 330 CP	4G2.5+(2X1.5)	12.5	PUR	5M
ZL7401020	FD 330 CP	4G2.5+(2X1.5)	12.5	PUR	10M

Technical Data

Conductor Current-Resistance Reference

Extracted from DIN VDE 0295, IEC60228

Nominal cross-section (mm ²)	copper conductor Ordinary wires (mm ²)		copper conductor tinned wires (Ω/km)	
	Class1 and 2	Class5 and 6	Class1 and 2	Class5 and 6
0.05	-	~380	-	~392
0.08	-	~237	-	244
0.11	-	~170	-	~175
0.126	-	~150	-	~155
0.14	-	~134	-	~138
0.22	-	~96	-	~99
0.25	-	~76	-	~79
0.34	-	~53	-	~56
0.5	36.0	39.0	36.7	~40.1
0.75	24.5	26.0	24.8	26.7
1.0	18.1	19.5	18.2	20.0
1.5	12.1	13.3	12.2	13.7
2.5	7.41	7.98	7.56	8.21
4.0	4.51	4.95	4.70	5.09
6.0	3.08	3.30	3.11	3.30
10.0	1.83	1.91	1.84	1.95
15.0	1.15	1.21	1.16	1.24
25.0	0.727	0.780	0.734	0.795
35.0	0.524	0.554	0.529	0.565
50.0	0.387	0.386	0.391	0.393
70.0	0.268	0.272	0.270	0.277
95.0	0.193	0.206	0.195	0.210
120.0	0.153	0.161	0.154	0.164
150.0	0.124	0.129	0.126	0.132
185.0	0.0991	0.106	0.100	0.108
240.0	0.0754	0.0801	0.0762	0.0817

Class1=single core conductor for single and multi core cables

Class2=multi core conductor for single and multi core cables

Class5=fine wire copper conductor for single and multi core cables

Class6=extra fine wire copper conductor for single and multi core cables

Technical Data

Conductor Structure

According to DIN VDE 0295, IEC60228

cross section (mm ²)	Stand wires	Multi Stand wires	Fine wires		Extra-Fine wires		
	Class2 DIN VDE 0295		Class5 DIN VDE 0295		Class6 DIN VDE 0295		
	wires × wire	wires × wire	wires × wire	wires × wire	wires × wire	wires × wire	wires × wire
0.05						~10*0.08	~26*0.05
0.08						~16*0.08	~40*0.05
0.09						~19*0.08	
0.14			~18*0.1	~18*0.1	~18*0.1	~30*0.08	~72*0.05
0.25			~14*0.15	~32*0.1	~32*0.1	~56*0.08	~128*0.05
0.34		7*0.25	~19*0.15	~42*0.1	~42*0.1	~65*0.08	~174*0.05
0.38		7*0.27	~12*0.2	~21*0.15	~48*0.1	~76*0.08	~194*0.05
0.5	7*0.30	7*0.30	~16*0.2	~28*0.15	~64*0.1	~108*0.08	~256*0.05
0.75	7*0.37	7*0.37	~24*0.2	~42*0.15	~96*0.1	~144*0.08	~384*0.05
1.0	7*0.43	7*0.43	~32*0.2	~56*0.15	~128*0.1	~210*0.08	~512*0.05
1.5	7*0.52	7*0.52	~30*0.25	~84*0.15	~192*0.1	~284*0.08	~768*0.05
2.5	7*0.67	19*0.41	~50*0.25	~140*0.15	~320*0.1	~504*0.08	~1280*0.05
4	7*0.85	19*0.52	~56*0.3	~224*0.15	~512*0.1	~798*0.08	
6	7*1.05	19*0.64	~84*0.3	~192*0.2	~768*0.1	~1200*0.08	
10	7*1.35	49*0.51	~80*0.4	~320*0.2	~1280*0.1	~2000*0.08	
16	7*1.70	49*0.65	~128*0.4	~512*0.2	~2048*0.1		
25	7*2.13	84*0.62	~200*0.4	~800*0.2	~3200*0.1		
35	7*2.52	133*0.58	~280*0.4	~1120*0.2			
50	19*1.83	133*0.69	~400*0.4	~705*0.3			
70	19*2.17	189*0.69	~356*0.5	~990*0.3			
95	19*2.52	259*0.69	~484*0.5	~1340*0.3			
120	37*2.03	336*0.67	~614*0.5	~1690*0.3			
150	37*2.27	392*0.69	~765*0.5	~2123*0.3			
185	37*2.52	494*0.69	~944*0.5	~1470*0.4			
240	61*2.24	627*0.70	~1225*0.5	~1905*0.4			

Conversion AMG to (mm²)

AWG	mm ²	AWG	mm ²	AWG	mm ²	kcmil	mm ²
30	0.05	18	0.75	6	16		
28	0.08	17	1.00	4	25		
26	0.14	16	1.50	2	35	300	150
24	0.25	14	2.50	1	50	350	185
22	0.34	12	4	2/0	70	500	240
21	0.38	10	6	3/0	95		
20	0.50	8	10	4/0	120		

Above cross reference list shows equivalent relation of conductors dimension in different standards. Actual cross sections area may change.

Technical Data

Colour code according to DIN 47100

With colour repetition from core no.45 and above

Electronic control and computer cable: single cores stranding
 The insulation of the conductor gives the first basic colour. The diameters of the multi-coloured identification are combined with a basic colour and colour rings. The second colour is printed on the basic colour as a form of ring.

NO.	Colour	NO.	Colour	NO.	Colour	NO.	Colour	NO.	Colour
1	white	14	brown-green	27	grey-green	40	pink-red	53	black
2	brown	15	white-yellow	28	yellow-grey	41	grey-black	54	violet
3	green	16	yellow-brown	29	pink-green	42	pink-black	55	grey-pink
4	yellow	17	white-grey	30	yellow-pink	43	bule-black	56	red-bule
5	grey	18	grey-brown	31	green-bule	44	red-black	57	white-green
6	pink	19	white-pink	32	yellow-bule	45	white	58	brown-green
7	bule	20	pink-brown	33	green-red	46	brown	59	white-yellow
8	red	21	white-bule	34	yellow-red	47	green	60	yellow-brown
9	black	22	brown-bule	35	green-black	48	yellow	61	white-grey
10	violet	23	white-red	36	yellow-black	49	grey		
11	grey-pink	24	brown-red	37	grey-bule	50	pink		
12	red-bule	25	white-black	38	pink-bule	51	bule		
13	white-green	26	brown-black	39	grey-red	52	red		

Without colour repetition from core no.45 and above

NO.	Colour	NO.	Colour	NO.	Colour	NO.	Colour	NO.	Colour
1	white	14	brown-green	27	grey-green	40	pink-red	53	white-grey-black
2	brown	15	white-yellow	28	yellow-grey	41	grey-black	54	grey-brown-black
3	green	16	yellow-brown	29	pink-green	42	pink-black	55	white-pink-black
4	yellow	17	white-grey	30	yellow-pink	43	bule-black	56	pink-brown-black
5	grey	18	grey-brown	31	green-bule	44	red-black	57	white-bule-black
6	pink	19	white-pink	32	yellow-bule	45	white-brown-black	58	brown-bule-black
7	bule	20	pink-brown	33	green-red	46	yellow-green-black	59	white-red-black
8	red	21	white-bule	34	yellow-red	47	grey-pink-black	60	brown-red-black
9	black	22	brown-bule	35	green-black	48	red-bule-black	61	black-white
10	violet	23	white-red	36	yellow-black	49	white-green-black		
11	grey-violet	24	brown-red	37	grey-bule	50	brown-green-black		
12	red-bule	25	white-black	38	pink-bule	51	white-yellow-black		
13	white-green	26	brown-black	39	grey-red	52	yellow-brown-black		

Technical Data

Colour code according to VDE0293(OLD)

Multicore flexible cables

Number of cores	Cores with green-yellow protective conductor(-J)	Cores without green-yellow protective conductor(-O)
2		
3	green-yellow / brown / blue	brown / blue
4	green-yellow / black / blue / brown	black / blue / brown
5	green-yellow / black / blue / brown / black	black / blue / brown / black
6...	green-yellow/ others black white numbering	black white numbering

Multicore cables for flexible installation

Number of cores	Cores with green-yellow protective conductor(-J)	Cores without green-yellow protective conductor(-O)	with protective conductor
2	green-yellow / black	brown / blue	brown / blue
3	green-yellow / black / blue	black / blue / brown	black / blue / brown
4	green-yellow / black / blue / brown	black / blue / brown / black	black / blue / brown / black
5	green-yellow / black / blue / brown / black	black / blue / brown / black / black	
6...	green-yellow / others black white numbering	black white numbering	black white numbering

Colour code according to VDE0293-308(NEW)

Number of cores	Cores with green-yellow protective conductor(-J)	Cores without green-yellow protective conductor(-O)
2	-	brown / blue
3	green-yellow / black / blue	black / brown / grey
3 ³⁾	-	blue / brown / black
4	green-yellow / brown / black / grey	blue / brown / black / grey
4 ⁴⁾	green-yellow / black / brown	-
5	green-yellow / blue / brown / black / grey	blue / brown / black / grey / black
6	green-yellow / others black white numbering	black white numbering

Technical Data

PAIR-colour code according to DIN 47100

Whit colour repetition from pair-no.23 and above

Electronic control and computer cable: pair stranding

The insulation of the conductor gives the first basic colour. The diameters of the multi-coloured identity cation are combined with a basic colour and colour rings. The second colour is printed on the basic colour as a from of ring.

Pair-no.	a-core colour	b-core colour	Pair-no.	a-core colour	b-core colour
1 23 45	white	brown	12 34 56	white-red	brown-red
2 24 46	green	yellow	13 35 57	white-black	brown-black
3 25 47	grey	pink	14 36 58	grey-green	yellow-green
4 26 48	bule	red	15 37 59	pink-green	yellow-pink
5 27 49	black	violet	16 38 60	green-bule	yellow-bule
6 28 50	grey-pink	red-bule	17 39 61	green-red	yellow-red
7 29 51	white-green	brown-green	18 40 62	green-black	yellow-black
8 30 52	white-yellow	yellow-brown	19 41 63	grey-bule	pink-bule
9 31 53	white-grey	grey-brown	20 42 64	grey-red	pink-red
10 32 54	white-pink	pink-brown	21 43 65	grey-black	pink-black
11 33 55	white-bule	brown-bule	22 44 66	bule-black	red-black

Technical Data

Protection classification to EN 60259

Defintion of protection classification to EN 60259

The protection classification are indicated by a cade, which always begins with the letters IP and ends with the number of the protection level. e.g. IP54.

protection level against solid foreign bdiameteries			protection level against water		
First number	Short description	Definition	Second number	Short description	Definition
0	Not protected		0	Not protected	
1	Protected against solid foreign bodies of 50mm diameter and larger	The object sensor, a 50mm ball, must not fully penetrate.	1	Protected against dripping water	Vertically-falling droples must not have a damaging effect.
2	protected against solid foreign bodies of 12.5mm diameter and larger	The object sensor, a 12.5mm ball, must not fully penetrate.	2	Protected against dripping water from one direction	Water sprayed at both sides of the perpendicularsat an angle of up to 15°must not have a damaging effect.
3	protected against solid foreign bodies of 2.5mm diameter and larger	The object sensor, a 2.5mm ball, must not fully penetrate.	3	Protected against spray water	Water sprayed at both sides of the perpendicularsat an angle of up to 60°must not have a damaging effect.
4	protected against solid foreign bodies of 1.0mm diameter and larger	The object sensor, a 1.0mm ball, must not fully penetrate.	4	Protected against spray water	Water sprayed against the housing from one direction must not have a damaging effect.
5	Dust protected	Dust penetration is not prevented completely. The amount of penetretion,however, must not impair the function or safety of the device.	5	Protected against hose water	Water sprayed against the housing in a jet from every direction must not have a damaging effect.
6	Dust protected	No dust protected	6	Protected against hose water	The volume of penetrating water must not have a sprayed hard against the housing.
E.G.:			7	Protected against the effect when temporarily submerged under water	The volume of penetrating water must not have a damaging effect when the houseing is temporarily submerged under water at a certain pressure.
First number: protection level against solid foreign bdiameteries			8	Protected against the effect when temporarily submerged under water	The volume of penetrating water must not have a damaging effect when the houseing is temporarily submerged under water .
			9K	Protected against the effect of water from high-pressure cleaners.	Water sprayed against the enclosure in a jet at increased pressure from every direction must not have any damaging effects.



Technical Data

Cable Load Ratings UA-CSA

PVC insulation single core cables and multicore cables are used in distribution panel and power distribution cabinet of electrical equipments, which meet the standard UA-AWM and CSA-TEW. They can also be installed in the protective sleeve of machine and transformer.

The maximum temperature accepted by the insulation of PVC is 105°C.

The data of list is only for reference. The rules and recommendations about current ratings must be followed in dangerous environments.

For single core cables at ambient temperature up to 30°C

AWG No.	Cross-section mm ²	Load rating A	AWG No.	Cross-section mm ²	Load rating A
24	0.21	3.5	3	26.65	154
22	0.33	5	2	33.61	170
20	0.52	6	1	42.38	180
18	0.82	9.5	1/0	53.43	200
16	1.31	20	2/0	67.4	225
14	2.08	24	3/0	84.97	275
12	3.32	34	4/0	107.17	325
10	5.26	52	250	127	345
8	8.35	75	300	152	390
6	13.29	95	400	178	415
4	21.24	120			

For multi core cables at ambient temperature up to 30°C

AWG No.	Cross-section mm ²	Load rating up to 3coresA	Load rating 4-6coresA	Load rating 7-24coresA	Load rating 25-42coresA	Load rating 43 and aboveA
24	0.21	2	1.6	1.4	1.2	1
22	0.33	3	2.4	2.1	1.8	1.5
20	0.52	5	4	3.5	3	2.5
18	0.82	7	5.6	4.9	4.2	3.5
16	1.31	10	8	7	6	5
14	2.08	15	12	10.5	9	7.5
12	3.32	20	16	14	12	10
10	5.26	30	24	21	18	15
8	8.35	40	32	28	24	20
6	13.29	55	44	38	33	27
4	21.14	70	56	49	42	35
3	26.65	80	64	56	48	40
2	33.61	95	76	66	57	57
1	42.38	110	88	77	66	55

Correction-factors at ambient temperature over 30°C

Ambient temperature °C	Load rating values of above tables correction-factors
31-40	0.82
41-45	0.71
46-50	0.58

Technical Data

Zhaolong Colour code

Applicable to MC 411, MC 411 CY 6 core or more products

Basic color		Basic color with white bar		Basic color with black bar		Basic color with blue bar		Basic color with brown bar	
0	yellow-green	12	black-white	22	blue-black	31	brown-blue	38	grey-brown
1	white	13	blue-white	23	brown-black	32	grey-blue	39	red-brown
2	black	14	brown-white	24	grey-black	33	red-blue	40	violet-brown
3	blue	15	grey-white	25	red-black	34	pink-blue	41	pink-brown
4	brown	16	red-white	26	violet-black	35	orange-blue	42	orange-brown
5	grey	17	violet-white	27	pink-black	36	transparent-blue	43	transparent-brown
6	red	18	pink-white	28	orange-black	37	beige-blue	44	beige-brown
7	violet	19	orange-white	29	transparent-black				
8	pink	20	transparent-white	30	beige-black				
9	orange	21	beige-white						
10	transparent								
11	beige								

Basic color with grey bar		Basic color with red bar		Basic color with violet bar		Basic color with pink bar		Basic color with orange bar	
45	red-grey	51	orange-red	54	pink-violet	58	transparent-pink	60	transparent-orange
46	violet-grey	52	transparent-red	55	orange-violet	59	beige-pink	61	beige-orange
47	pink-grey	53	beige-red	56	transparent-violet				
48	orange-grey			57	beige-violet				
49	transparent-grey								
50	beige-grey								

All products in the catalog of styles and colors shall refer to the actual products, and the Company shall reserve the right of final interpretation.





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