

Marine Cable



COMPANY PROFILE



Zhejiang Zhaolong Interconnect Technology Co., Ltd.

Founded in 1993, Zhaolong Interconnect is a high-tech enterprise specializing in the design, manufacturing, and sales of data cables, specialty cables, and connection products. As a full-fledged member of China Communications Standardization Association and a national standard drafting unit for data cables, Zhaolong possesses comprehensive capabilities spanning material development, product design and manufacturing to system delivery. Our core technologies and product innovations keep pace with the evolution of Ethernet technology.

Our products are widely used in AI, data centers, 5G communications, smart buildings, smart homes, intelligent manufacturing, automotive, medical technology, renewable energy, and specialty equipment, with exports to over 120 countries and regions worldwide.



1993
Year of Establishment

33 Years Dedicated to Data Transmission



Core Products

Data cables, specialty cables, connection products



Listed Company

IPO in Dec. 2020 Stock Code: **300913**



Manufacturing Footprint

China: **160,000m²**
Thailand: Phase I – **15,000m²**
Phase II – planned **160,000m²**
Employees: **1500+**

GLOBAL PRESENCE



INDUSTRIAL & MEDICAL B.G

Specialized in delivering high-reliability connectivity solutions for industrial applications. Our products are widely used in factory automation, automotive, rail transit, marine, photovoltaic, robotics, heavy machinery, and medical equipment—empowering the accelerated development of Industry 4.0.

MANUFACTURING CAPABILITY

Global Manufacturing Footprint • Reliable Delivery

Production Capacity



4 million standard cases /year
Data Cables



7 million pieces /year
connection components



100,000 kilometers /year
specialized cables



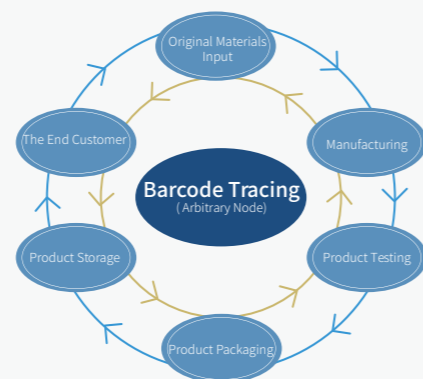
500,000 kilometers /year
micro - electronic wires

Certifications



Product Barcode Traceability System

Barcode-based full-process traceability from raw materials to finished products, enabling fast and accurate tracking of personnel, equipment, materials, product status, and inspection data—preventing errors and reducing misjudgment or missed inspections.



MANUFACTURING CAPABILITY

Precision Processes • Diverse Material Applications

Manufacturing Processes



Data Cable Manufacturing



Automated Assembly Manufacturing



- Braiding Technology
- Multi-core Ultra-fine Coaxial Technology
- Physical Foamed Insulation Technology
- 100% Back-twist Cabling Technology
- Star-Twist Cabling Technology
- Four-head Longitudinal Wrapping Technology
- High-speed Parallel Longitudinal Wrapping Technology
- Fluoroplastic Extrusion Technology

Material Development

- High-frequency Wire Conductors
- Alloy Copper Conductors
- Foamed Insulation
- Fluoroplastics
- Flame-retardant & Fire-resistant Materials
- Harsh-environment Resistant Materials
- Wrapping Tapes



R&D CAPABILITY

Collaborative Innovation • Professional R&D System

Joint research with leading universities and institutes



- Deqing R&D Center
- Hangzhou Research Institute
- Shenzhen R&D Center
- Chonburi R&D Center (Thailand)

Associations & Partnerships



Product Certification



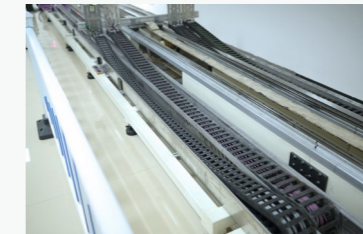
LAB CAPABILITY

CNAS & Intertek Certified • 90+ Test Covering Multiple Requirements



Comprehensive Laboratory

Appearance, dimensions, material structure, IR spectroscopy, hardness, coating thickness



Mechanical Durability Laboratory

Vibration, bending, torsion, tensile strength, flexibility, drag chain lifespan



High-frequency Transmission Laboratory

Frequency domain (67 GHz), time domain (67 GHz), EMC, BER analysis (800G Ethernet)



System Application Laboratory

Fluke testing, data transmission, PoE testing



Flammability Laboratory

Fire resistance, VW-1 (UL), smoke density, flame retardancy



Environmental Laboratory

Temperature & humidity lifespan, thermal shock, IP protection, oil resistance, salt spray resistance



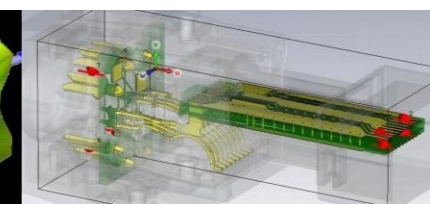
Material Analysis Laboratory

RoHS, halogen, acidic gas emission

Design & Simulation



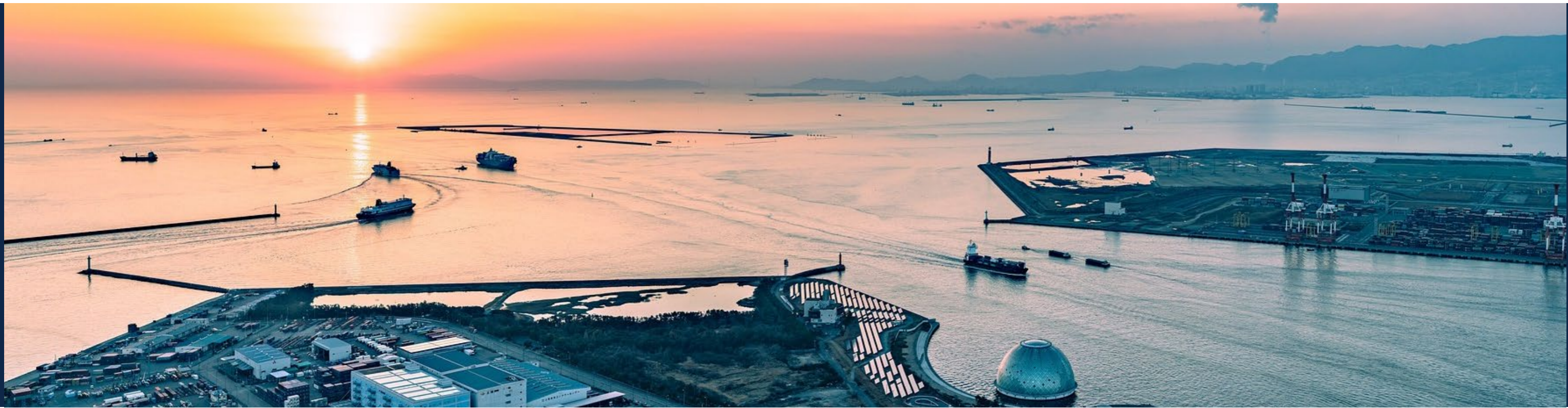
Computational Electromagnetics Algorithm Development




Electromagnetic Simulation



Structural Design



Characteristics of Zhaolong Marine Cable

- Classification Society Certifications (**ABS** **CCS** )
- The cables comply with international standards IEC60092 and IEC61156, and the flame-retardant performance complies with the IEC60332-3-22 standard.
- With 30 years of R&D and production experience in data transmission cables, advanced production technology for data cables - physical foaming technology and four-head longitudinal wrapping cable-forming technology.
- The cables have excellent electromagnetic interference resistance, and the steel wire armoring provides additional tensile resistance and protection against rat bites.
- SHF2 sheathed cables have better oil resistance.

Design Standards of Marine Cables

IEC 60092-350/360、61156-5/6.
 IEC 60332-1-2、60754-1/2、61034-1/2
 IEC 60332-3-22、60332-3-24

Conductor

Solid bare copper conductor
 solid or stranded copper conductor

Insulation

Solid PE,
 foamed PE

Shielding

U/FTP、F/UTP
 F/FTP、S/FTP、SF/UTP
 (F represents aluminum foil shielding, S represents braided shielding, TP represents twisted pair, U represents unshielded)

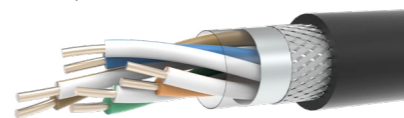
Armoring (Inner Sheath)

Galvanized steel wire braid,
 SHF1 low - smoke halogen - free

Outer Sheath

SHF1 low - smoke halogen - free
 SHF2 low - smoke halogen - free

LONGTRONIC® MARINE ETHERNET CAT5e (Unarmored)

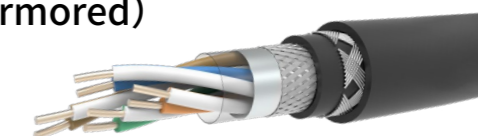


Cable Structure		Technical Parameters	
Conductor/Insulation	Solid or stranded bare copper wire, foamed PE, HDPE	Temperature Range	Operating temperature: - 40~+80° C Installation temperature: - 20~+60° C
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding, or aluminum foil plus braided overall shielding, or aluminum foil overall shielding	Conductor DC Resistance	≤ 95ohm/km or ≤ 145ohm/km
Sheath	As shown in the table	Characteristic Impedance	100±5ohm @100MHz
Sheath Color	Black (RAL9004)	Insulation Resistance	≥ 5000MΩ.km
		Reference Standard	IEC 61156-5

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Outer Sheath	Certification
ZL5604048	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	CCS
ZL5604049	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	CCS
ZL5604101	F/UTP 4x2x24AWG/1	7.00±0.40	SHF1	CCS
ZL5604109	S/FTP 4x2x24AWG/7	8.30±0.50	SHF1	CCS
ZL5604111	S/FTP 4x2x24AWG/7	8.30±0.50	SHF2	CCS
ZL5604175	S/FTP 4x2x24AWG/1	8.30±0.50	SHF1	CCS
ZL5604177	S/FTP 4x2x24AWG/1	8.00±0.50	SHF2	CCS
ZL5604216	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	ABS
ZL5604217	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	ABS
ZL5604105	SF/UTP 4x2x24AWG/1	7.50±0.40	SHF1	DNV
ZL5604233	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	DNV
ZL5604238	S/FTP 4x2x24AWG/7	8.30±0.50	SHF1	DNV
ZL5604240	S/FTP 4x2x24AWG/7	8.30±0.50	SHF2	DNV
ZL5604107	SF/UTP 4x2x24AWG/1	7.50±0.40	SHF2	DNV
ZL5604234	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	DNV

LONGTRONIC® MARINE ETHERNET CAT5e (Armored)

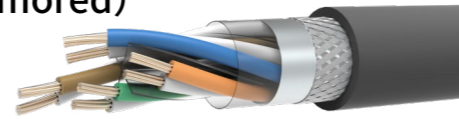
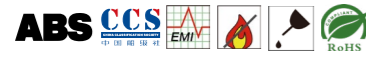


Cable Structure		Technical Parameters	
Conductor/Insulation	Solid or stranded bare copper wire, foamed PE, HDPE	Temperature Range	Operating temperature: - 40~+80° C Installation temperature: - 20~+60° C
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding, or aluminum foil plus braided overall shielding	Conductor DC Resistance	≤ 95ohm/km or ≤ 145ohm/km
Armoring	Galvanized steel wire braid	Characteristic Impedance	100±5ohm @100MHz
Sheath	As shown in the table	Insulation Resistance	≥ 5000MΩ.km
Sheath Color	Black (RAL9004)	Reference Standard	IEC 61156-5 or IEC 61156-6

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Inner Sheath	Outer Sheath	Certification
ZL5604051	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	CCS
ZL5604052	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	CCS
ZL5604110	S/FTP 4x2x24AWG/7	11.30±0.50	SHF1	SHF1	CCS
ZL5604112	S/FTP 4x2x24AWG/7	11.30±0.50	SHF1	SHF2	CCS
ZL5604176	S/FTP 4x2x24AWG/1	11.00±0.60	SHF1	SHF1	CCS
ZL5604178	S/FTP 4x2x24AWG/1	11.00±0.60	SHF1	SHF2	CCS
ZL5604198	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	ABS
ZL5604199	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	ABS
ZL5604106	SF/UTP 4x2x24AWG/1	10.50±0.50	SHF1	SHF1	DNV
ZL5604235	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	DNV
ZL5604239	S/FTP 4x2x24AWG/7	10.50±0.50	SHF1	SHF1	DNV
ZL5604241	S/FTP 4x2x24AWG/7	11.30±0.50	SHF1	SHF2	DNV
ZL5604108	SF/UTP 4x2x24AWG/1	10.50±0.50	SHF1	SHF2	DNV
ZL5604236	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	DNV

LONGTRONIC® MARINE ETHERNET CAT6 (Unarmored)



Cable Structure

Conductor/Insulation	Solid or stranded bare copper wire, foamed PE, HDPE
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding, or aluminum foil overall shielding
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

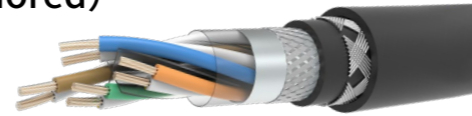
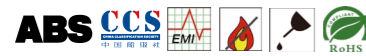
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 95ohm/km
Characteristic Impedance	100±5ohm @100MHz
Insulation Resistance	≥ 5000MΩ.km
Reference Standard	IEC 61156-5

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Outer Sheath	Certification
ZL5604003	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	CCS
ZL5604005	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	CCS
ZL5604036	F/UTP 4x2x23AWG/1	8.10±0.40	SHF1	CCS
ZL5604200	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	ABS
ZL5604201	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	ABS

LONGTRONIC® MARINE ETHERNET CAT6 (Armored)



Cable Structure

Conductor/Insulation	Solid or stranded bare copper wire, foamed PE, HDPE
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding, or aluminum foil plus braided overall shielding
Armoring	Galvanized steel wire braid
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

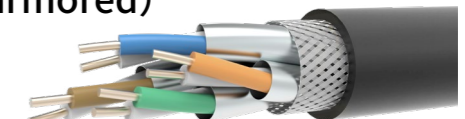
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 95ohm/km
Characteristic Impedance	100±5ohm @100MHz
Insulation Resistance	≥ 5000MΩ.km
Reference Standard	IEC 61156-5

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Inner Sheath	Outer Sheath	Certification
ZL5604007	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	CCS
ZL5604029	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	CCS
ZL5604113	F/UTP 4x2x23AWG/1	11.10±0.50	SHF1	SHF1	CCS
ZL5604203	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	ABS
ZL5604202	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	ABS

LONGTRONIC® MARINE ETHERNET CAT6A (Unarmored)



Cable Structure

Conductor/Insulation	Solid or stranded bare copper wire, foamed PE, HDPE
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding, or aluminum foil pair - by - pair shielding plus aluminum foil overall shielding, or aluminum foil pair - by - pair shielding
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

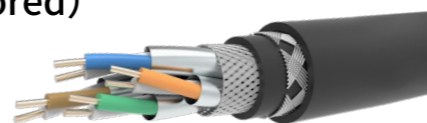
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 95ohm/km or ≤ 145ohm/km
Characteristic Impedance	100±5ohm @100MHz
Insulation Resistance	≥ 5000MΩ.km
Reference Standard	IEC 61156-5 或 IEC 61156-6

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Outer Sheath	Certification
ZL5604004	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	CCS
ZL5604008	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	CCS
ZL5604028	S/FTP 4x2x23AWG/1	8.30±0.50	SHF1	CCS
ZL5604125	S/FTP 4x2x23AWG/1	8.30±0.50	SHF2	CCS
ZL5604204	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	ABS
ZL5604205	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	ABS
ZL5604218	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	DNV
ZL5604031	U/FTP 4x2x23AWG/1	8.10±0.50	SHF1	DNV
ZL5604118	F/FTP 4x2x23AWG/1	8.20±0.50	SHF1	DNV
ZL5604121	S/FTP 4x2x24AWG/7	8.30±0.50	SHF1	DNV
ZL5604230	S/FTP 4x2x23AWG/1	8.30±0.50	SHF1	DNV
ZL5604243	S/FTP 4x2x23AWG/1	8.30±0.50	SHF2	DNV
ZL5604123	S/FTP 4x2x24AWG/7	8.30±0.50	SHF2	DNV
ZL5604116	U/FTP 4x2x23AWG/1	8.10±0.50	SHF2	DNV
ZL5604091	F/FTP 4x2x23AWG/1	8.20±0.50	SHF2	DNV
ZL5604219	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	DNV

LONGTRONIC® MARINE ETHERNET CAT6A (Armored)



Cable Structure

Conductor/Insulation	Solid or stranded bare copper wire, foamed PE
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding, or aluminum foil pair - by - pair shielding plus aluminum foil overall shielding, or aluminum foil pair - by - pair shielding
Armoring	Galvanized steel wire braid
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C
	Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 95ohm/km or ≤ 145ohm/km
Characteristic Impedance	100±5ohm @100MHz
Insulation Resistance	≥ 5000MΩ.km
Reference Standard	IEC 61156-5 or IEC 61156-6

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Inner Sheath	Outer Sheath	Certification
ZL5604009	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	CCS
ZL5604010	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	CCS
ZL5604032	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF1	CCS
ZL5604126	S/FTP 4x2x23AWG/1	8.30±0.50	SHF1	SHF2	CCS
ZL5604206	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	ABS
ZL5604207	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	ABS
ZL5604100	U/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF1	DNV
ZL5604119	F/FTP 4x2x23AWG/1	11.20±0.60	SHF1	SHF1	DNV
ZL5604122	S/FTP 4x2x24AWG/7	11.30±0.80	SHF1	SHF1	DNV
ZL5604220	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	DNV
ZL5604231	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF1	DNV
ZL5604244	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF2	DNV
ZL5604124	S/FTP 4x2x24AWG/7	11.30±0.80	SHF1	SHF2	DNV
ZL5604120	F/FTP 4x2x23AWG/1	11.20±0.60	SHF1	SHF2	DNV
ZL5604117	U/FTP 4x2x23AWG/1	11.10±0.60	SHF1	SHF2	DNV
ZL5604221	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	DNV

LONGTRONIC® MARINE ETHERNET CAT7 (Unarmored)



Cable Structure

Conductor/Insulation	Solid or stranded bare copper wire, foamed PE
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

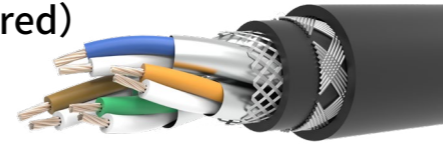
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C
	Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 95ohm/km
Characteristic Impedance	100±5ohm @100MHz
Insulation Resistance	≥ 5000MΩ.km
Reference Standard	IEC 61156-5

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Outer Sheath	Certification
ZL5604011	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	CCS
ZL5604012	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	CCS
ZL5604127	S/FTP 4x2x23AWG/1	8.30±0.50	SHF1	CCS
ZL5604129	S/FTP 4x2x23AWG/1	8.30±0.50	SHF2	CCS
ZL5604208	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	ABS
ZL5604209	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	ABS
ZL5604222	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	DNV
ZL5604245	S/FTP 4x2x23AWG/1	8.30±0.50	SHF1	DNV
ZL5604247	S/FTP 4x2x23AWG/1	8.30±0.50	SHF2	DNV
ZL5604223	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	DNV

LONGTRONIC® MARINE ETHERNET CAT7 (Armored)



Cable Structure

Conductor/Insulation	Solid or stranded bare copper wire, foamed PE
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding
Armoring	Galvanized steel wire braid
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 95ohm/km
Characteristic Impedance	100±5ohm @100MHz
Insulation Resistance	≥ 5000MΩ.km
Reference Standard	IEC 61156-5

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Inner Sheath	Outer Sheath	Certification
ZL5604013	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	CCS
ZL5604014	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	CCS
ZL5604128	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF1	CCS
ZL5604130	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF2	CCS
ZL5604210	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	ABS
ZL5604211	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	ABS
ZL5604224	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF1	DNV
ZL5604246	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF1	DNV
ZL5604248	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF2	DNV
ZL5604225	S/FTP 4x2x23AWG/7	12.20±0.80	SHF1	SHF2	DNV

LONGTRONIC® MARINE ETHERNET CAT7A (Unarmored)



Cable Structure

Conductor/Insulation	Solid or stranded bare copper wire, foamed PE
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

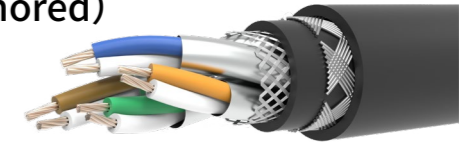
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 95ohm/km
Characteristic Impedance	100±5ohm @100MHz
Insulation Resistance	≥ 5000MΩ.km
Reference Standard	IEC 61156-5

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Outer Sheath	Certification
ZL5604015	S/FTP 4x2x23AWG/7	9.00±0.50	SHF1	CCS
ZL5604016	S/FTP 4x2x23AWG/7	9.00±0.50	SHF2	CCS
ZL5604179	S/FTP 4x2x23AWG/1	8.50±0.50	SHF1	CCS
ZL5604181	S/FTP 4x2x23AWG/1	8.50±0.50	SHF2	CCS

LONGTRONIC® MARINE ETHERNET CAT7A (Armored)



Cable Structure

Conductor/Insulation	Solid or stranded bare copper wire, foamed PE
Shielding	Aluminum foil pair - by - pair shielding plus braided overall shielding
Armoring	Galvanized steel wire braid
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

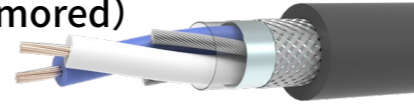
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 95ohm/km
Characteristic Impedance	100±5ohm @100MHz
Insulation Resistance	≥ 5000MΩ.km
Reference Standard	IEC 61156-5

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Inner Sheath	Outer Sheath	Certification
ZL5604017	S/FTP 4x2x23AWG/7	12.2±0.80	SHF1	SHF1	CCS
ZL5604018	S/FTP 4x2x23AWG/7	12.2±0.80	SHF1	SHF2	CCS
ZL5604180	S/FTP 4x2x23AWG/1	11.50±0.60	SHF1	SHF1	CCS
ZL5604182	S/FTP 4x2x23AWG/1	11.50±0.60	SHF1	SHF2	CCS
ZL5604214	S/FTP 4x2x23AWG/7	12.2±0.80	SHF1	SHF1	ABS
ZL5604215	S/FTP 4x2x23AWG/7	12.2±0.80	SHF1	SHF2	ABS
ZL5604132	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF1	DNV
ZL5604228	S/FTP 4x2x23AWG/7	12.2±0.80	SHF1	SHF1	DNV
ZL5604134	S/FTP 4x2x23AWG/1	11.30±0.60	SHF1	SHF2	DNV
ZL5604229	S/FTP 4x2x23AWG/7	12.2±0.80	SHF1	SHF2	DNV

LONGTRONIC® MARINE BUS CABLE RS 485 (Unarmored)



Cable Structure

Conductor/Insulation	Stranded bare copper wire, foamed PE, HDPE
Shielding	Aluminum foil shielding plus braided overall shielding
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

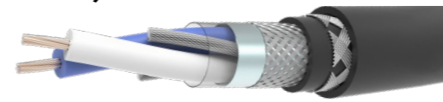
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C
	Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 93ohm/km or ≤ 55ohm/km or ≤ 59ohm/km
Characteristic Impedance	120±12ohm@ 1MHz

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Outer Sheath	Certification
ZL5604159	SF/UTP 2x2x24AWG/7	8.00±0.50	SHF1	DNV
ZL5604163	SF/UTP 4x2x24AWG/7	9.00±0.50	SHF1	DNV
ZL5604167	SF/UTP 2x2x22AWG/7	8.20±0.50	SHF1	DNV
ZL5604171	SF/UTP 4x2x22AWG/7	9.30±0.50	SHF1	DNV
ZL5604173	SF/UTP 4x2x22AWG/7	9.30±0.50	SHF2	DNV
ZL5604169	SF/UTP 2x2x22AWG/7	8.20±0.50	SHF2	DNV
ZL5604165	SF/UTP 4x2x24AWG/7	9.00±0.50	SHF2	DNV
ZL5604161	SF/UTP 2x2x24AWG/7	8.00±0.50	SHF2	DNV

LONGTRONIC® MARINE BUS CABLE RS 485 (Armored)



Cable Structure

Conductor/Insulation	Stranded bare copper wire, foamed PE, HDPE
Shielding	Aluminum foil shielding plus braided overall shielding
Armoring	Galvanized steel wire braid
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

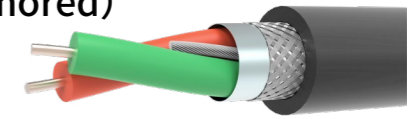
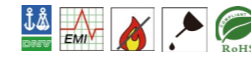
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C
	Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 93ohm/km or ≤ 55ohm/km or ≤ 59ohm/km
Characteristic Impedance	120±12ohm@ 1MHz

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Inner Sheath	Outer Sheath	Certification
ZL5604160	SF/UTP 2x2x24AWG/7	11.20±0.50	SHF1	SHF1	DNV
ZL5604164	SF/UTP 4x2x24AWG/7	12.20±0.50	SHF1	SHF1	DNV
ZL5604168	SF/UTP 2x2x22AWG/7	11.20±0.50	SHF1	SHF1	DNV
ZL5604172	SF/UTP 4x2x22AWG/7	12.70±0.50	SHF1	SHF1	DNV
ZL5604174	SF/UTP 4x2x22AWG/7	12.70±0.50	SHF1	SHF2	DNV
ZL5604170	SF/UTP 2x2x22AWG/7	11.20±0.50	SHF1	SHF2	DNV
ZL5604166	SF/UTP 4x2x24AWG/7	12.20±0.50	SHF1	SHF2	DNV
ZL5604162	SF/UTP 2x2x24AWG/7	11.20±0.50	SHF1	SHF2	DNV

LONGTRONIC® MARINE BUS PROFIBUS DP (Unarmored)



Cable Structure

Conductor/Insulation	Stranded bare copper wire, foamed PE
Shielding	Aluminum foil shielding plus braided overall shielding
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

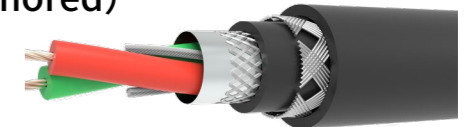
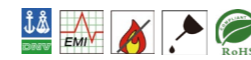
Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C
	Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 55ohm/km
Characteristic Impedance	270±27ohm @ 9.6kHz
	185±18.5ohm @ 38.4kHz

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Outer Sheath	Certification
ZL5604087	SF/UTP 1x2x22AWG/7	7.80±0.40	SHF1	DNV
ZL5604088	SF/UTP 1x2x22AWG/7	7.80±0.40	SHF2	DNV

LONGTRONIC® MARINE BUS PROFIBUS DP (Armored)



Cable Structure

Conductor/Insulation	Stranded bare copper wire, foamed PE
Shielding	Aluminum foil shielding plus braided overall shielding
Armoring	Galvanized steel wire braid
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

Technical Parameters

Temperature Range	Operating temperature: - 40~+80° C
	Installation temperature: - 20~+60° C
Conductor DC Resistance	≤ 55ohm/km
Characteristic Impedance	270±25ohm @ 9.6kHz
	185±18.5ohm @ 38.4kHz
	150±15ohm@ 3-20MHz

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Inner Sheath	Outer Sheath	Certification
ZL5604071	SF/UTP 1x2x22AWG/7	11.0±0.40	SHF1	SHF1	DNV
ZL5604072	SF/UTP 1x2x22AWG/7	11.0±0.40	SHF1	SHF2	DNV

LONGTRONIC® MARINE CAN BUS (Unarmored)



Cable Structure

Conductor/Insulation	Stranded bare copper wire, foamed PE
Shielding	Aluminum foil shielding plus braided overall shielding
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

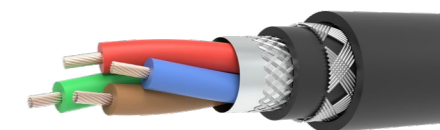
Technical Parameters

Temperature Range	Operating temperature: -40~+80° C
	Installation temperature: -20~+60° C
Conductor DC Resistance	≤ 35ohm/km or ≤ 26ohm/km
Characteristic Impedance	120±10ohm@ 1MHz

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Outer Sheath	Certification
ZL5604153	SF/UTP 4x2x20AWG/19	11.60±0.40	SHF2	DNV
ZL5604151	SF/UTP 4x2x20AWG/19	11.60±0.50	SHF1	DNV
ZL5604149	SF/UTP 4x20AWG/19	8.50±0.40	SHF2	DNV
ZL5604147	SF/UTP 4x20AWG/19	8.50±0.40	SHF1	DNV
ZL5604145	SF/UTP 2x20AWG/19	7.40±0.40	SHF2	DNV
ZL5604143	SF/UTP 2x20AWG/19	7.40±0.40	SHF1	DNV
ZL5604141	SF/UTP 2x2x18AWG/7	11.50±0.50	SHF2	DNV
ZL5604139	SF/UTP 2x2x18AWG/7	11.50±0.50	SHF1	DNV
ZL5604137	SF/UTP 1x2x18AWG/7	8.30±0.40	SHF2	DNV
ZL5604135	SF/UTP 1x2x18AWG/7	8.30±0.40	SHF1	DNV

LONGTRONIC® MARINE CAN BUS (Armored)



Cable Structure

Conductor/Insulation	Stranded bare copper wire, foamed PE
Shielding	Aluminum foil shielding plus braided overall shielding
Armoring	Galvanized steel wire braid
Sheath	As shown in the table
Sheath Color	Black (RAL9004)

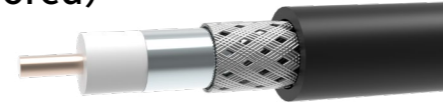
Technical Parameters

Temperature Range	Operating temperature: -40~+80° C
	Installation temperature: -20~+60° C
Conductor DC Resistance	≤ 93ohm/km or ≤ 55ohm/km or ≤ 59ohm/km
Characteristic Impedance	120±12ohm@ 1MHz

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)	Inner Sheath	Outer Sheath	Certification
ZL5604154	SF/UTP 4x2x20AWG/19	14.80±0.50	SHF1	SHF2	DNV
ZL5604152	SF/UTP 4x2x20AWG/19	14.80±0.50	SHF1	SHF1	DNV
ZL5604150	SF/UTP 4x20AWG/19	11.50±0.40	SHF1	SHF2	DNV
ZL5604148	SF/UTP 4x20AWG/19	11.50±0.40	SHF1	SHF1	DNV
ZL5604146	SF/UTP 2x20AWG/19	10.40±0.40	SHF1	SHF2	DNV
ZL5604144	SF/UTP 2x20AWG/19	10.40±0.40	SHF1	SHF1	DNV
ZL5604142	SF/UTP 2x2x18AWG/7	14.50±0.50	SHF1	SHF2	DNV
ZL5604140	SF/UTP 2x2x18AWG/7	14.50±0.50	SHF1	SHF1	DNV
ZL5604138	SF/UTP 1x2x18AWG/7	11.30±0.40	SHF1	SHF2	DNV
ZL5604136	SF/UTP 1x2x18AWG/7	11.30±0.40	SHF1	SHF1	DNV

LONGTRONIC® MARINE COAXIAL CABLE (Unarmored)



Cable Structure

Conductor/Insulation	Solid bare copper conductor, stranded tinned copper wire, foamed PE, HDPE
Shielding	Tinned copper braid or silver - plated copper braid
Sheath Color	Black (RAL9004)

Technical Parameters

Temperature Range	Operating temperature: - 30~+70° C
Insulation Resistance	≥ 1000 MΩ·Km
Characteristic Impedance	75 ± 3 ohm@3000MHz

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)
ZL5604253	RG6 1.02mmBC	7.30 ± 0.3
ZL5604254	RG11 1.63mmBC	10.3 ± 0.3
ZL5604255	RG58 19x0.180mmBC	5.0 ± 0.3
ZL5604256	RG59 0.81mmBC	6.20 ± 0.3
ZL5604257	RG213 7x0.750mmBC	10.3 ± 0.3
ZL5604258	RG214 7x0.750mmBC	11.3 ± 0.3

LONGTRONIC® MARINE COAXIAL CABLE (Armored)



Cable Structure

Conductor/Insulation	Solid bare copper conductor, stranded tinned copper wire, foamed PE, HDPE
Shielding	Tinned copper braid or silver - plated copper braid
Armoring	Galvanized steel wire braid
Sheath Color	Black (RAL9004)

Technical Parameters

Temperature Range	Operating temperature: - 30~+70° C
Insulation Resistance	≥ 1000 MΩ·Km
Characteristic Impedance	75 ± 3 ohm@3000MHz

Product List

Product Code	Product Specification	Cable Outer Diameter (mm)
ZL5604261	RG11 7x0.400mm	13.5±0.5

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