船用网线 Marine Ethernet cable

HF Flame Oil Cold UV

RS485 UFL 22AWG/7 SHF1

应用 Application

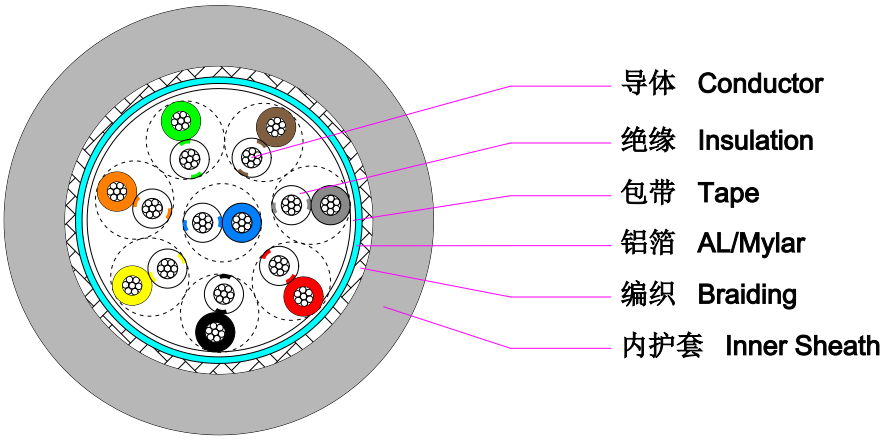
该电缆专为自动化和通信的工业现场总线系统而设计，专为船舶和海上使用而设计，专为固定应用而设计，例如过程控制和自动化，或偶尔移动机器的部件。该产品符合 IEC 61158-2 标准。

This cable is designed for industrial field bus systems of automation and communication, designed for ship and offshore use, designed for fixed applications, such as process control and automation, or occasionally moving parts of the machine. The product complying with IEC 61158-2 standard.

镀锡铜导体，发泡 PE 绝缘，铝箔总屏蔽+镀锡铜编织总屏蔽，SHF1 外护套。

TC conductor ,Foam PE insulation ,Aluminum foil screened overall shielding with an overall tinned copper braid, SHF1 Outer sheath.

结构 Construction



导体 Conductor	多股镀锡铜丝（22AWG/7）	Stranded Tinned copper wire（22AWG/7））
绝缘 Insulation	发泡 PE 颜色： 1、白/蓝，蓝 2、白/橙，橙 3、白/绿，绿 4、白/棕，棕 5、白/灰，灰 6、白/红，红 7、白/黑，黑 8、白/黄，黄	Foam PE Color： 1、White/Blue，Blue 2、White/Orange，Orange 3、White/Green，Green 4、White/Brown，Brown 5、White/Grey，Grey 6、White/Red，Red 7、White/Black，Black 8、White/Yellow，Yellow
包带 Tape	聚酯带	Mylar tape
屏蔽 Screen	铝箔+镀锡铜编织，覆盖率≥60%	AL/Mylar+Tinned copper braiding，Coverage≥60%
内护套 Inner Sheath	SHF1	SHF1
印字 Marking	Hysin□MARINE□Cable□RS485□UFL□2/3/4/6/8 PR□22AWG/7□SHF1□IEC60332-3-22□****m□xxxxxx□WW/YY 注：□ 表示空格；****m 表示计米；xxxxxx 表示批号;WW/YY 表示周数/年份 Note：□ means blank；****m means meters；xxxxxx means batch number；WW/YY means week/year	

电气性能 Electrical Characteristics（20℃）

特性阻抗	Characteristic impedance	120±12Ω @ 1MHz
衰减	Attenuation	≤30 dB/km @1MHz
电容	Mutual Capacitance	<60 pF/m @800Hz
导体直流电阻	Conductor DC resistance	≤55 Ω/km
绝缘电阻	Insulation DC resistance at 20℃	≥1G Ω.km
工作电压	Operating voltage	100V

其他性能 Other Characteristics

工作温度	Operating temperature	-40℃ to 90℃
安装温度	Installation temperature	-20℃ to 60℃
卤酸气体	Acid Gas Release Mounts	≤5mg/g (IEC 60754-1)
燃烧气体 PH 值	Burning Occur Gas Acidity	PH≥4.3 (IEC 60754-2)
燃烧气体导电率	Burning Occur Gas conductivity	<10 μS/mm (IEC 60754-2)
烟密度	Smoke density	≥60%（IEC 61034-2）
阻燃性	Flame resistance	IEC 60332-3-22, IEC 60332-1-2
耐油	Oil resistance (SHF1)	IRM902, 70℃×4H
抗紫外线	UV resistance	UL1581
护套材料性能	The jacket material performance	IEC 60092-360
最小弯曲半径	Min.Bending radius	8xOD(OD=cable diameter)

This cable meets RoHS requirements

结构参数 Technical Parameters

型号 Type	外护套厚度 Outer sheath thickness （mm）	外护套外径 Outer Diameter （mm）	重量 Weight （kg/km）
RS485 UFL 2PR 22AWG/7	≥1.0	8.5±0.8	70±10
RS485 UFL 3PR 22AWG/7	≥1.0	9.0±0.8	90±10
RS485 UFL 4PR 22AWG/7	≥1.0	9.5±0.8	100±10
RS485 UFL 6PR 22AWG/7	≥1.0	11.0±0.8	120±10
RS485 UFL 8PR 22AWG/7	≥1.0	12.5±0.8	150±10

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