船用总线 Marine Bus cable

HF Flame Oil Cold UV Mud

Profibus-DP AFL 1×2×0.35 SHF-MUD (TCWB)

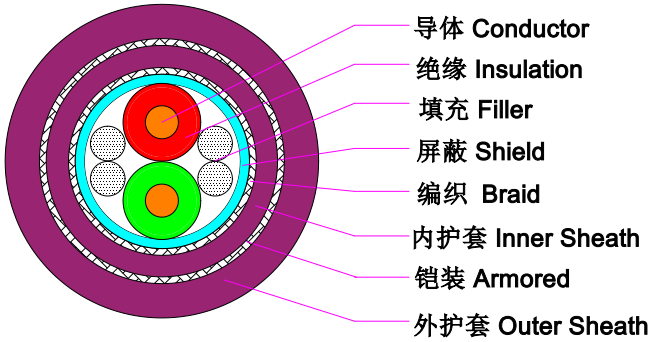


应用 Application

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.

结构 Construction



导体 Conductor	0.35mm² 单股裸铜导体 （22AWG/1）	0.35mm²Solid bare copper （22AWG/1）
绝缘 Insulation	发泡 PE 颜色：红、绿	Foam PE Color：Red、Green
填充 Filler	PP	PP
屏蔽 Shield	铝箔	AL/Mylar
编织 Braid	镀锡铜丝编织，覆盖率≥60%	Tinned copper wire braid，coverage≥60%
内护套 Inner Sheath	SHF1	SHF1
铠装 Armored	镀锡铜丝编织，覆盖率≥90%	Tinned copper wire braid，coverage≥90%
外护套 Outer Sheath	SHF-MUD 颜色：紫色或定制 OD：10.8± 0.80mm	SHF-MUD Color ：Purple or as customer's request OD：10.8± 0.80mm
印字 Marking	Hysin □ MARINE □ Cable □ Profibus □ DP □ AFL □ 1 × 2 × 0.35 □ SHF-MUD □ TCWB □ IEC60332-3-22□NEK606□****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/yea	

电气特性 Electrical Characteristics（20℃）

特性阻抗	Characteristic impedance	270±27.0Ω	@ 9.6KHz
		185±18.5Ω	@ 38.4KHz
		150±15.0Ω	@ 3-20MHz
衰减	Attenuation	≤2.5 dB/km	@ 9.6KHz
		≤3.8 dB/km	@ 38.4KHz
		≤11.0 dB/km	@ 200KHz
		≤22.0 dB/km	@4MHz
电容	Mutual Capacitance	30 pF/m @800Hz	
导体直流电阻	Conductor DC resistance	≤55 Ω/km	
绝缘电阻	Insulation DC resistance at 20℃	≥1 GΩ.km	
传播速率	Nominal Velocity of propagation	78%	

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 (SHF2)	IRM902, 100℃×24H
耐泥浆	MUD resistance (SHF-MUD)	NEK 606
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	15xOD(OD=cable diameter)
重量	Weight	160±10 kg/km

This cable meets RoHS requirements