



Data and communication cable

Cat 5E S/FTP Marine Approved

Article number: 24026

27-08-2019

Description

4x2xAWG 24/7 HFFR-LS Grey

Application:

Twisted pair cable for carrying signals. This type of cable is used in structured cabling for computer networks such as Ethernet

Characteristics:

- Available in stranded (AWG 22/7 CAT 5) conductors
- Halogen free and low smoke, flame retardant
- DNV certified
- Different colour outer sheaths, other than grey , available on request

Core identification:

- White/Blue, White/Orange, White/Green, White/Brown



Trading information

Product group	Data and communication cable
Type	Cat 5E S/FTP Marine Approved
Net. Weight	0,071 kg/m
Sheath marking	TKF - InduData - Category 5E S/FTP - 4x2x0.22 mm ² AWG 24/7 stranded - HFFR-LS - MARINE APPROVED {Batch} {Length}

Trade lengths

	(24026 / 8713182243463)
Reel à 1000	(24026H X 1000 / 8713182317058)
Ring à 305	(24026R X 305 / 8713182317072)

Construction characteristics

Certified for shipboard application	Yes
Suitable as computer data cable	Yes
Standardization	BS EN 50288-2-1, ISO/IEC 11801, IEC 61156-5, UL Subject 444



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Conductor material	Copper
Lay-up Cable core	4
Number of conductors per group	2
Diameter conductor	0.60 mm
Nominal cross section conductor	0.22 mm ²
Conductor category	Class 2 = stranded
Number of cores	8
Stranding element	Pairs
Number of stranding elements	4
Core insulation	Foam PE
Colour insulated wires	White/Blue, White/Orange, White/Green, White/Brown
Core identification	Colour
Screen over stranding element	Al/Polyester foil
Overall stranding screen	Braiding
Insulation thickness	0.41 mm
Diameter over armouring (nom.)	6.7 mm
Material outer sheath	LSZH
Outer sheath thickness	0.75 mm
Colour outer sheath	Grey
Outer diameter approx.	8.0 mm

Properties

Low smoke (acc. EN 61034-2)	Yes
Halogen free (acc. EN 60754-1/2)	Yes
Oil resistant	IEC 60811-2-1 IRM 902/ASTM No.2 (70°C for 4 Hrs)
Tensile load	110 N
Min. bending radius during installation	80 mm
Min. bending radius after installation	40 mm



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Technical characteristics

Permitted cable outer temperature, in movement	0 / 50 °C
Permitted cable outer temperature, fixed	-20 / 70 °C
Transportation and storage temperature	-20 / 70 °C

Electrical characteristics

Conductor DC resistance @ 20°C	95 Ohm/km
Characteristic impedance	100 Ohm
NEXT @ 1 MHz	65 dB
NEXT @ 4 MHz	56 dB
NEXT @ 10 MHz	50 dB
NEXT @ 16 MHz	47 dB
NEXT @ 20 MHz	45 dB
NEXT @ 31.2 MHz	43 dB
NEXT @ 62.5 MHz	38 dB
NEXT @ 100 MHz	35 dB
PS NEXT @ 1 MHz	62 dB
PS NEXT @ 4 MHz	53 dB
PS NEXT @ 10 MHz	48 dB
PS NEXT @ 16 MHz	44 dB
PS NEXT @ 20 MHz	43 dB
PS NEXT @ 31.2 MHz	40 dB
PS NEXT @ 62.5 MHz	36 dB
PS NEXT @ 100 MHz	32 dB



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Optical characteristics

Attenuation @ 1 MHz	2 dB/km
Attenuation @ 4 MHz	4 dB/km
Attenuation @ 8 MHz	6 dB/km
Attenuation @ 10 MHz	6.5 dB/km
Attenuation @ 16 MHz	8.5 dB/km
Attenuation @ 20 MHz	9.3 dB/km
Attenuation @ 31.2 MHz	12 dB/km
Attenuation @ 62.5 MHz	17 dB/km
Attenuation @ 100 MHz	22 dB/km

Other properties

Velocity factor	76 %
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