



Data and communication cable

Cat 5E S/FTP Marine Approved

Article number: 24026

02-08-2022

Description

4 x 2 x AWG 24/7 HFFR-LS

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 24/7 CAT 5) conductors
- Halogen free and low smoke, flame retardant
- DNV certified
- Different colour outer sheaths, other than grey , available on request



* This image may differ from the actual product.

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 mm² AWG 24/7 stranded - HFFR-LS - MARINE APPROVED {Batch} {Length}

Trade lengths

Minimal order

	(24026 / 8713182243463)	1 MTR
Ring à 305	(24026R X 305 / 8713182317072)	1 PCE
Reel à 1000	(24026H X 1000 / 8713182317058)	1 PCE



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Construction characteristics

Standardization	BS EN 50288-2-1, ISO/IEC 11801, IEC 61156-5, UL Subject 444
Number of cores	8
Nominal cross sectional area of conductor	0.22 mm ²
Conductor material	Copper
Conductor category	Class 2 = stranded
Number of stranding elements	4
Number of conductors per group	2
Individual screen type	Al/Polyester foil
Core insulation material	Foamed PE
Core identification	Colour
Colour insulated wires	White/Blue - White/Orange - White/Green - White/Brown
Overall screen type	Braiding
Sheath material	LSZH
Sheath colour	Grey

Properties

Flame retardant	IEC 60332-3-24 Cat. C
Halogen free	IEC 60754-1 / IEC 60754-2
Low smoke	IEC 61034-1 & IEC 61034-2
UV-protection	None
Oil resistant	IEC 60811-2-1 IRM 902/ASTM No.2 (70°C for 4 Hrs)
Conductor Diameter	0.6 mm
Insulation thickness	0.41 mm
Diameter over armouring (nom.)	6.7 mm
Outer sheath thickness	0.75 mm
Outer diameter approx.	8 mm



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Technical characteristics

Min. bending radius during installation	80 mm
Min. bending radius after installation	40 mm
Tensile load	110 N
Permitted cable outer temperature during assembling/handling	-15 / 50 °C
Permitted cable outer temperature after assembling without vibration	-40 / 85 °C
Transportation and storage temperature	-40 / 85 °C

Electrical characteristics

Conductor DC resistance @ 20°C	95 Ohm/km
Velocity factor	76 %
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



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Electrical characteristics

PS NEXT @ 100 MHz	32 dB
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