



Data and communication cable

Cat.7 S/FTP Marine Approved

Article number: 24020

02-10-2026

Description

4 x 2 x AWG 23/1 LSHF Zw. UV-best.

Application:

Backbone connections between servers within a data center, to provide a high-speed interconnect used for data transfer within the network

Characteristics (properties):

- Available in stranded (AWG 22/7 CAT7) and solid (AWG 23/1 Cat 7) 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.7 S/FTP Marine Approved
Net. Weight	0,078 kg/m
Sheath marking	TKF - InduData - Category 7 S/FTP - 4x2x0.259 mm² AWG 23/1 solid - HFFR-LS - MARINE APPROVED {Batch} {Length}

Trade lengths

Minimal order

	(24020 / 8713182243432)	1 MTR
Reel à 305	(24020H X 305 / 8713182495763)	1 PCE
Reel à 1000	(24020H X 1000 / 8713182456115)	1 PCE





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Construction characteristics

Standardization	BS EN 50288-4, IEC 61156-5, UL Subject 444
Number of cores	8
Nominal cross section conductor	0,26 mm ²
Conductor material	Copper
Conductor category	Class 1 = solid
Number of stranding elements	4
Number of conductors per group	2
Screen over stranding element	Al/Polyester foil
Material core insulation	Polyethylene, foamed (foam PE)
Core identification	Colour
Colour insulated wires	White/Blue - White/Orange - White/Green - White/Brown
Screen over stranding	Braiding
Material outer sheath	LSZH
Colour outer sheath	Black



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Properties

Flame retardant	IEC 60332-3-24 Cat. C
Flame retardant according to IEC 60332-3-24 (Cat C)	Yes
Halogen free	IEC 60754-1 / IEC 60754-2
Low smoke	IEC 61034-1 & IEC 61034-2
UV resistant	Yes
UV protection	UI 1581-1200
Oil resistant	IEC 60811-2-1 IRM 902/ASTM No.2 (70°C for 4 Hrs)
Diameter conductor	0,58 mm
Insulation thickness	0,4 mm
Diameter over armouring (nom.)	6,8 mm
Outer sheath thickness	0,75 mm
Outer diameter approx.	8,1 mm

Technical characteristics

Min. bending radius during installation	81 mm
Min. bending radius after installation	41 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 %



Product information

Electrical performance

Article nr.:24020/24021/24022	Cat.7 S/FTP Marine Approved 4 x 2 x AWG 23/1 HFFR-LS Black/Grey/Purple	Version : 70J56-008 SHF1
Standard :	IEC 61156-5 & ISO/IEC 11801	

Application :	Generic cabling systems. Including 10/100/1000 BaseT, 20G, ATM & Token Ring. This range of screened cables is designed to support Cat 7 Link and Channel performance. With internationally defined Physical and Electrical performance up to 600 MHz.
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Transmission performances				Frequency range																			
Frequency Unit	kHz			MHz																			
Transmission Frequency	1	10	100	4	8	10	16	20	25	31,25	62,5	100	200	250	300	500	600	-	-	-	-	-	
Attenuation (dB/100m)	-	-	-	3.7	5.2	5.9	7.4	8.3	9.3	10.4	14.9	19	27.5	31	34.2	45.3	50.1	-	-	-	-	-	
Characteristic Impedance (ohm)	-	-	-	100±15									100±22			100±25			-	-	-	-	-
Return Loss (dB)	-	-	-	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3	17.3	17.3	17.3	-	-	-	-	-	
Skew(ns/100m)	-	-	-	≤ 25														-	-	-	-	-	
Propagation Delay (ns/100m)	-	-	-	552	547	545	543	542	541	540	539	538	537	536	536	536	535	-	-	-	-	-	
NEXT (dB)	-	-	-	78	78	78	78	78	78	78	75.5	72.4	67.9	66.4	65.2	61.9	60.7	-	-	-	-	-	
PS NEXT (dB)	-	-	-	75	75	75	75	75	75	75	72.5	69.4	64.9	63.4	62.2	58.9	57.7	-	-	-	-	-	
EL FEXT (dB/100m)	-	-	-	78	77.2	75.3	71.2	69.3	67.3	65.4	59.4	55.3	49.3	47.3	45.8	41.3	39.7	-	-	-	-	-	
PS EL FEXT (dB/100m)	-	-	-	75	74.2	72.3	68.2	66.3	64.3	62.4	56.4	52.3	46.3	44.3	42.8	38.3	36.7	-	-	-	-	-	