Data and communication cable

Cat.7 S/FTP Marine Approved

Article number: 24017 | 02-10-2026

Description

4 x 2 x AWG 22/7 LSHF Purple

* This image may differ from the actual product.

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 outher 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.7 S/FTP Marine Approved
Net. Weight	0,08 kg/m
Sheath marking	TKF - InduData - Category 7 S/FTP - 4x2x0.27 mm² AWG 22/7 stranded - HFFR-LS - MARINE APPROVED {Batch} {Length}

Trade lengths

		Minimal order
	(24017 / 8713182479053)	1 MTR

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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	0,27 mm²
Conductor material	Copper
Conductor category	Class 2 = stranded
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	Purple

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)
Diameter conductor	0,67 mm
Insulation thickness	0,4 mm
Diameter over armouring (nom.)	7 mm
Outer sheath thickness	0,75 mm
Outer diameter approx.	8,3 mm

Subject to technical modifications | No rights can be derived from this information

Spinnerstraat 15 | P.O. Box 6 | 7481 KJ Haaksbergen | Nederland | Phone: +31 (0)53 573 22 55 | E-mail: info@tkf.nl

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Technical characteristics

Min. bending radius during installation	83 mm
Min. bending radius after installation	42 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 %

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Product information

Electrical performance

Article nr.:24015/24016/24017 | Cat.7 S/FTP Marine Approved 4 x 2 x AWG 22/7 HFFR-LS Black/Grey/Purple | Version : 70J223-008 SHF1

Standard : BS EN 50288-4 & IEC 61156-5 & ISO/IEC 11801 & UL Subject 444

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.

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	-	-	-	-	-