

Cat.7 23/7awg S/FTP Work Area Cable



Application

DNV-GL Approved Cat7 for Offshore installations, Maritime Environment, High data rates, Indoor use, fixed installations, Ships, High speed & Light craft.

Cable Design

Conductor AWG	Stranded Tinned Copper wire 23/7 AWG
Insulation Diameter	Cellular PO Ø 1,48 mm nom.
Formation Pair Identification	2 cores twisted to a pair, 4 pairs total (4x2x23/7awg) Per TIA/EIA 568-B
Individual shield	Aluminium/polyester foil, 100% coverage
Overall Shield	Annealed Tinned Copper Wire Braid, 70% nom. coverage
Outer Jacket Colour Diameter Weight	FR-LSZH SHF-1 or XL-HFFR SHF2 Grey Ø 8.60 mm nom. 87 kg/km

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Performance

Frequency Range	1 - 600	MHz
Impedance	100	Ohm
Transfer Impedance	Grdae 1	
Coupling Attenuation	Type I	
DC Resistance	73	Ohm/km nom.
Max. Resistance Unbalance	2	%
Capacitance	42	pF/m
Capacitance Unbalance	1,2	pF/m max.
Velocity of Propagation	78	% nom.
Propagation Delay Skew	25	ns/100m max.
Dielectric Strength	700	V/minute
Dielectric Strength to Shield	700	V/minute
Min. Insulation Resistance	5	GOhm • km
Tensile Strength - Short Term	130	N max.
Min. Bend Radius	80	mm
Max. Operating Temperature	+85	°C
Min. Operating Temperature	-40	°C
UV resistance	YES	

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Electrical Properties *Cat. 7 Horizontal Cables*

Frequency (MHz)	Attenuation (dB/100m) 20°C	PS NEXT Loss (dB)	NEXT Loss (dB)	RL (dB)	PS ANEXT (dB)	PS ELFEXT (dB)	ELFEXT (dB)
	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value
1	2,0	87	90	22	70	95	98
4	3,5	87	90	25	70	90	93
10	5,4	87	90	30	70	86	89
20	7,6	87	90	30	70	80	93
30	9,6	87	90	27	70	76,4	79
100	17,8	80	83	24	67	66	69
150	22,2	78	81	22	66	63	66
200	25,4	78	81	21	65	60	63
250	28,6	75	78	20	63	58	61
300	31,4	75	78	19	62	52,5	55
400	37,1	70	73	19	61	49	52
500	42,1	70	73	19	61	47	50
600	47,6	70	72	19	61	45	48

Standards

Applicable Standards	DNV certified, IEC 60092-359, IEC 60092-350, IEC 61156-5, IEEE 802.3at (PoE+), ISO/IEC 11801, RoHS-2 2011/65/EU
Flammability Rating	IEC 60332-1, IEC 60332-3-22, IEC 60332-3 , IEC 60754-1/2, IEC 61034-1/2, UL 1581 VW-1

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Specification

Part Number	Construction	Shield Type	Outer Jacket
AMF7-SFTS23-ZF1	4x2x23/7 awg	S/FTP	SHF1
AMF7-SFTS23-ZF2	4x2x23/7 awg	S/FTP	SHF2