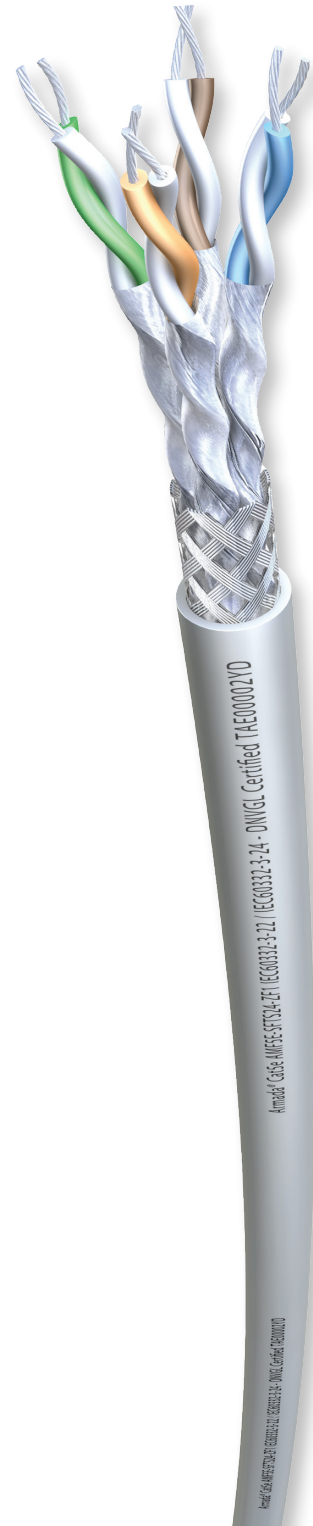


Cat.5e 24/7 AWG S/FTP
Work Area Cable



Application

DNV approved Cat5E 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 24/7 AWG
Insulation Diameter	Cellular PO Ø 1,40 mm nom.
Formation Pair Identification	2 cores twisted to a pair, 4 pairs total (4x2x24/7awg) Per TIA/EIA 568-B
Individual shield	Aluminium/polyester foil, 100% coverage
Drain Wire	Annealed Tinned Copper
Overall Shield	Annealed Tinned Copper Wire Braid, 55% nom. coverage

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Outer Jacket	FR-LSZH SHF-1 or XL-HFFR SHF2
Colour	Grey
Diameter	Ø 8,10 mm nom.
Weight	65 kg/km

Performance

Frequency Range	1 - 100	MHz
Impedance	100	Ohm
Transfer Impedance	Grade 1	
Coupling Attenuation	Type 1	
Max. DC Resistance	85	Ohm/km at 20°C
Max. Resistance Unbalance	2	%
Capacitance Unbalance	1,2	pF/m max.
Velocity of Propagation	78	% nom.
Dielectric Strength	700	V/minute
Dielectric Strength to Shield	700	V/minute
Min. Insulation Resistance	5	GOhm • km
Tensile Strength - Short Term	75	N max.
Min. Bend Radius	60	mm
Max. Operating Temperature	+85	°C
Min. Operating Temperature	-40	°C
UV resistance	YES	

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Electrical Properties *Cat. 5e Horizontal Cables **

Frequency (MHz)	Attenuation (dB/100m) 20°C	PS NEXT Loss (dB)	NEXT Loss (dB)	RL (dB)	PS ELFEXT (dB)	ELFEXT (dB)
	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value
1	2,0	68,3	71,3	22	64	67
4	3,9	59,3	62,3	25	52	55
10	6,2	53,3	56,3	28	44	47
20	8,8	48,8	51,8	28	38	41
30	10,9	46,1	49,1	27	35	38
60	15,8	41,6	44,6	24	28	31
100	21,0	38,3	41,3	22	24	27

*Supplied cables meet minimum Cat. 5e transmission requirements of IEC 61156-5 Ed. 2 and ANSI/EIA/TIA 568-B.2

Standards

Applicable Standards	DNV certified, IEC 60092-360, IEC 60092-350, IEC61156-5, IEEE 802.3at (PoE+), ISO/IEC 11801-1, RoHS compliant
Flammability Rating	IEC 60332-1, IEC 60332-3-22, IEC 60332-3 , IEC 60754-1/2, IEC 61034-1/2, UL 1581 VW-1

Specification

Part Number	Construction	Shield Type	Outer Jacket
AMF5E-SFTS24-ZF1	4x2x24/7 awg	S/FTP	SHF1
AMF5E-SFTS24-ZF2	4x2x24/7 awg	S/FTP	SHF2