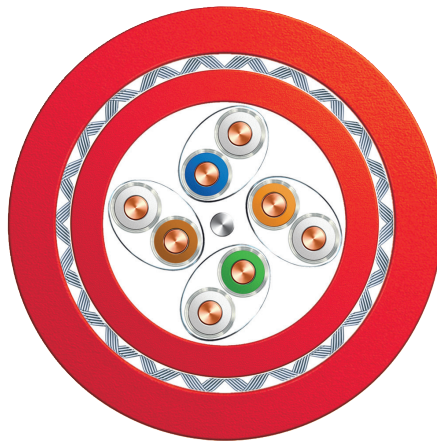


Armoured (GSWB) Cat.5e 4x2x24/1 AWG U/FTP Fire Resistant Horizontal Cable



Application

Offshore installations, Maritime Environment, High data rates, Indoor and Outdoor use, fixed installations, High bandwidth digital applications with low BER. The cable design and structure comply with the circuit integrity performance during a fire of the relevant requirements of IEC 60331-23 and allows data transmission during the fire. Available with SHF1, SHF2 and MUD-Resistant options. DNV approved (Certificate No: TAE00003EM.)

Cable Design

Conductor	Solid annealed bare copper wire (24awg)
Insulation	PO
Fire Barrier	FFCi™ Fire resistant tape wrapped
Diameter	Ø 1.10 mm nom.
Screened Pair	2 cores twisted to a pair + Aluminium/polyester foil,
100% coverage	
Formation	4 screened pairs (4x2x24/1 awg)
Pair Identification	Per TIA/EIA 568-B
Drain Wire	0,41 mm solid tinned copper wire

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Inner Jacket	FR-LSZH SHF-1
Colour	Red
Diameter	Ø 8,0 mm nom.
Armour	DataGuard® Galvanised Steel Wire Braid (GSWB)
Outer Jacket	FR-LSZH SHF-1 or XL-HFFR SHF2 or XL-HFFR MUD-Resistant
Colour	Red or Black
Diameter	Ø 11,90 mm nom.

Electrical & Mechanical Performance

Frequency Range	1-100	MHz
Impedance	100	Ohm
Max. DC Resistance	90	Ohm/km @ 20 °C
Max. Resistance Unbalance:	3	%
Capacitance	47	pF/m
Capacitance Unbalance	1,6	pF/m max.
Velocity of Propagation	68	% nom.
Dielectric Strength	700	V/minute
Dielectric Strength to Shield	500	V/minute
Min. Insulation Resistance	4	GOhm • km
Cold Bend	per UL 44, per CSA C22.2 No. 38-95	
Cold Impact	per CSA C22.2 No.0.3 (Min. -35°C)	
Max. Operating Temperature	+65	°C
Min. Operating Temperature	-30	°C
UV resistance	Yes	

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Fire Resistant Horizontal Cable*

Transmission Properties

Frequency (MHz)	Attenuation (dB/100m) 20 °C		PS NEXT Loss (dB)		NEXT Loss (dB)		RL (dB)		PS ELFEXT (dB)		PS ELFEXT (dB)	
	Typ.	Cat.5e	Typ.	Cat.5e	Typ.	Cat.5e	Typ.	Cat.5e	Typ.	Cat.5e	Typ.	Cat.5e
1	2,0	2,1	68.3	62.3	71,3	65,3	22	20	64	51	67	64
4	3,9	4,1	59.3	53.3	62,3	56,3	25	23	52	49	55	52
10	6,2	6,5	53.3	47.3	56,3	50,3	28	25	44	41	47	44
20	8,8	9,3	48.8	42.8	51,8	45,8	28	25	38	35	41	38
30	10,9	11,5	46.1	40.1	49,1	43,1	27	23,8	35	31,5	38	34,5
60	15,8	16,6	41.6	35.6	44,6	38,6	24	21,1	28	25,4	31	28,4
100	21,0	22,0	38.3	32.3	41,3	35,3	22	18,8	24	21	27	24

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, TIA/EIA-568, ASTM G 154, RoHS compliant
Flammability Rating	IEC 60331-23, IEC 60332-1, IEC 60332-3 , IEC 60754-1/2, IEC 61034-1/2, UL 1581 VW-1

Specification

Part Number	Construction	Shield Type	Armour	Outer Jacket	Colour
AMS5E-UF24-DGF1	4x2x24/1 awg	U/FTP	GSWB	SHF1	Red
AMS5E-UF24-DGF2	4x2x24/1 awg	U/FTP	GSWB	SHF2	Red
AMS5E-UF24-DGFM	4x2x24/1 awg	U/FTP	GSWB	MUD Resistant	Black