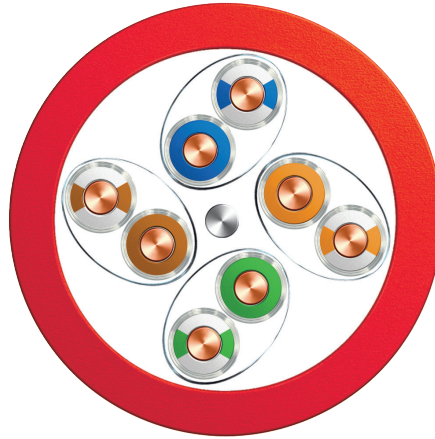


Cat.5e 4x2x24/1 AWG U/FTP Fire Resistant  
Horizontal Cable



## Application

Offshore installations, Maritime Environment, High data rates, Indoor 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. DNV approved (Certificate No: TAE00002A1.)

## Cable Design

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

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Outer Jacket	FR-LSZH SHF-1 or XL-HFFR SHF2
Colour	Red
Diameter	Ø 8.0 ± 0,5 mm
Weight	66 kg/km

## 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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### 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
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Flammability Rating	IEC 60331-23, IEC 60332-1, 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
AMS5E-UF24-UAF1	4x2x24/1 awg	U/FTP	SHF1
AMS5E-UF24-UAF2	4x2x24/1 awg	U/FTP	SHF2