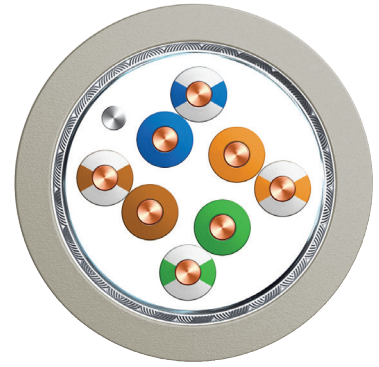




Armada®

Cat.5e 4x2x24/1 AWG SF/UTP Horizontal Cable
DNV GL Certified



Application

DNV-GL & ABS Approved Cat5E for Offshore installations, Maritime Environment, High data rates, Indoor use, fixed installations, Ships, High speed & Light craft.

Cable Design

Conductor AWG	Solid Annealed Bare Copper wire 24/1 AWG
Insulation Diameter	PO Ø 1,07 mm nom.
Formation Pair Identification	2 cores twisted to a pair, 4 pairs total (4x2x24/1 awg) Per TIA/EIA 568-B
Foil shield	Overall Aluminium/polyester foil, 100% coverage
Drain Wire	Solid Annealed Tinned Copper
Braid	Annealed Tinned Copper Wire Braid, 65% nom. coverage
Outer Jacket Colour Diameter Weight	FR-LSZH FireFighter® SHF-1 Grey Ø 6.60 mm nom. 57,5 kg/km



Specification

Part Number	Type
AML5E-SFBS24-ZF1	Armada® Cat.5e 4x2x24/1 SF/UTP LSZH-SHF1 DNV-GL



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Standards

Applicable Standards	DNV-GL certified, IEC 60092-359, IEC 60092-350, IEC 60811-2-1, IEC 61156-5, ISO/IEC 11801, RoHS-2 2011/65/EU
Flamability Rating	IEC 60332-1, IEC 60332-3-22, IEC 60754-1/2, IEC 61034-1/2

Performance

Frequency Range	1 - 100	MHz
Impedance	100	Ohm
Transfer Impedance	Grade 1	
Coupling Attenuation	Type 1	
Max. DC Resistance	94	Ohm/km at 20 °C
Max. Resistance Unbalance	2	%
Capacitance Unbalance	1,2	pF/m max.
Propagation Delay Skew	35	ns/100m max.
Dielectric Strength	700	V/minute
Min. Insulation Resistance	5	GOhm • km
Tensile Strength - Short Term	100	N max.
Min. Bend Radius	130	mm
Cold Bend		per UL 44, per CSA C22.2 No. 38-95
Max. Operating Temperature	+75	°C
Min. Operating Temperature	-40	°C
UV resistance	YES	



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Electrical Properties *Cat. 5e Horizontal Cables **

Fre- quency (MHz)	Attenuation (dB/100m) 20 ° C		PS NEXT Loss (dB)		NEXT Loss (dB)		RL (dB)		PS ELFEXT (dB)		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	61	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	24,0

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

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