

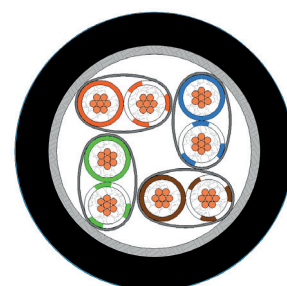
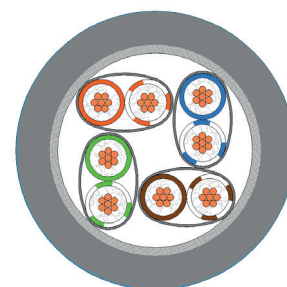
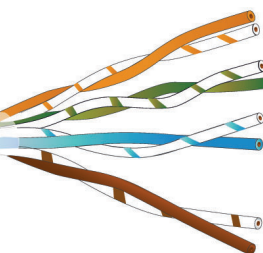
SH-DATA ETHERNET

CAVI ETHERNET CATEGORIA 7A, approvati per uso navale e offshore
ETHERNET CABLE CATEGORY 7A, approved for marine and offshore use

UNIKA (Italy) - SH-DATA/SHF1 ETHERNET CABLE CAT. 7A 4X(2xAWG26/7) - IEC 60332-3-22

SH-DATA ETHERNET CAT. 7A Type: 4x(2x26 AWG/7) S/FTP

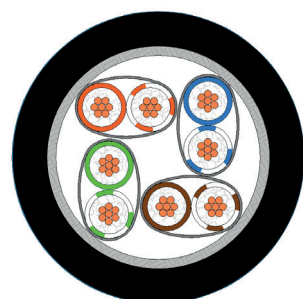
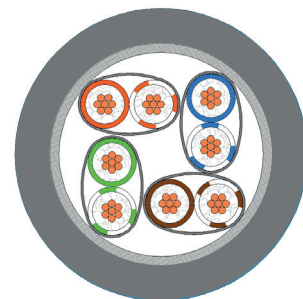
	Dati tecnici	Technical data
Conduttore Conductor	filì di rame rosso – 26 AWG/7 (0,14 mm²)	stranded bare copper wire – 26 AWG/7 (0,14 mm²)
Isolamento Insulation	polietilene espanso secondo EN 50290-2-23 - diametro nominale ø 1,00 mm	foam-skin polyethylene according to EN 50290-2-23 – nom ø 1,05 mm
Colori delle coppie Pair colours	bianco/blu-blu ÷ bianco/arancio-arancio ÷ bianco/verde-verde ÷ bianco/marrone-marrone	white/blue-blue ÷ white/orange-orange ÷ white/green-green ÷ white/brown-brown
Schermo sulle coppie Pair screen	nastro alluminio/poliestere (alluminio verso l'esterno)	aluminium/polyester tape (aluminium surface outside)
Riunitura assembling	coppie schermate riunite	shielded pairs stranded together
Schermo totale Overall shield	treccia di rame stagnato con copertura >85%	tinned copper braid 85% coverage
Guaina esterna Outer jacket	SHF1 compound in accordo alla IEC 60092-360. Colore: GRIGIO	SHF1 compound according to IEC 60092-360. Colour: GREY
	SHF2 compound in accordo alla IEC 60092-360. Colore: NERO	SHF2 compound according to IEC 60092-360. Colour: BLACK
Comportamento al fuoco Fire behaviour	IEC 60332-3-22 non propagante il fuoco IEC 60332-1-2 non propagante la fiamma IEC 60754-1 assenza di alogeni IEC 60754-2 acidità dei fumi IEC 60684-2 contenuto di fluoro IEC 61034 densità dei fumi	IEC 60332-3-22 not fire propagation IEC 60332-1-2 not flame propagation IEC 60754-1 halogen content IEC 60754-2 pH and conductivity IEC 60684-2 fluorine content IEC 61034 smoke emission
Resistenza chimica Chemical resistance	Versione con SHF1: resistente ai raggi UV secondo UL 758 (protezione raccomandata in caso di contatto con acqua salata o nebulizzazione)	SHF1 version: UV resistant according to UL 758 (protection recommended in case of direct contact with salty water or nebulization)
	Versione con SHF2: resistente ai raggi UV secondo UL 758, resistente all'olio secondo IEC 60092-360 tab. 9-10, acqua salata, agenti atmosferici	SHF2 version: UV resistant according to UL 758, oil resistant according to IEC 60092-360 tab. 9-10, salty water, weathering
Marcatura Marking	Code NP902AH for SHF1 version : UNIKA (Italy) SH-DATA/ SHF1 ETHERNET CABLE CAT.7A (4x2xAWG26/7) - IEC 60332-3-22 - traceability code	
	Code NP902A for SHF2 version : UNIKA (Italy) SH-DATA/ SHF2 ETHERNET CABLE CAT.7A (4x2xAWG26/7) - IEC 60332-3-22 - traceability code	



SH-DATA ETHERNET CAT. 7A

Type: **4x(2x24 AWG/7) S/FTP**

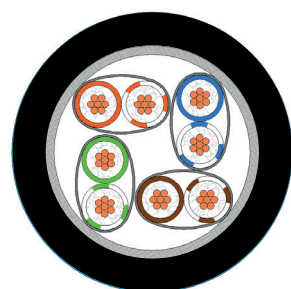
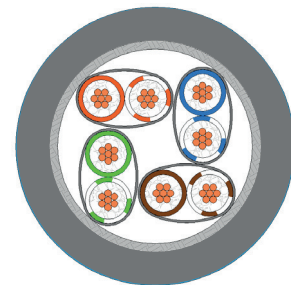
	Dati tecnici	Technical data
Conduttore Conductor	filì di rame rosso – 24 AWG/7 (0,22 mm ²)	stranded bare copper wire – 24 AWG/7 (0,22 mm ²)
Isolamento Insulation	polietilene espanso secondo EN 50290-2-23 - diametro nominale ø 1,40 mm	foam-skin polyethylene according to EN 50290-2-23 – nom. ø 1,40 mm
Colori delle coppie Pair colours	bianco/blu-blu ÷ bianco/arancio-arancio ÷ bianco/verde-verde ÷ bianco/marrone-marrone	white/blue-blue ÷ white/orange-orange ÷ white/green-green ÷ white/brown-brown
Schermo sulle coppie Pair screen	nastro alluminio/poliestere (alluminio verso l'esterno)	aluminium/polyester tape (outside aluminium surface)
Riunitura assembling	coppie schermate riunite	shielded pairs stranded together
Schermo totale Overall shield	treccia di rame stagnato con copertura >85%	tinned copper braid 85% coverage
Guaina esterna Outer jacket	SHF1 compound in accordo alla IEC 60092-360. Colore: GRIGIO	SHF1 compound according to IEC 60092-360. Colour: GREY
	SHF2 compound in accordo alla IEC 60092-360. Colore: NERO	SHF2 compound according to IEC 60092-360. Colour: BLACK
Comportamento al fuoco Fire behaviour	IEC 60332-3-22 non propagante il fuoco IEC 60332-1-2 non propagante la fiamma IEC 60754-1 assenza di alogeni IEC 60754-2 acidità dei fumi IEC 60684-2 contenuto di fluoro IEC 61034 densità dei fumi	IEC 60332-3-22 not fire propagation IEC 60332-1-2 not flame propagation IEC 60754-1 halogen content IEC 60754-2 pH and conductivity IEC 60684-2 fluorine content IEC 61034 smoke emission
Resistenza chimica Chemical resistance	Versione con SHF1: resistente ai raggi UV secondo UL 758 (protezione raccomandata in caso di contatto con acqua salata o nebulizzazione)	SHF1 version: UV resistant according to UL 758 (protection recommended in case of direct contact with salty water or nebulization)
	Versione con SHF2: resistente ai raggi UV secondo UL 758, resistente all'olio secondo IEC 60092-360 tab. 9-10, acqua salata, agenti atmosferici	SHF2 version: UV resistant according to UL 758, oil resistant according to IEC 60092-360 tab. 9-10, salty water, weathering
Marcatura Marking	Code NP902BH for SHF1 version : UNIKA (Italy) SH-DATA/ SHF1 ETHERNET CABLE CAT.7A (4x2xAWG24/7) - IEC 60332-3-22 - traceability code	
	Code NP902B for SHF2 version : UNIKA (Italy) SH-DATA/ SHF2 ETHERNET CABLE CAT.7A (4x2xAWG24/7) - IEC 60332-3-22 - traceability code	



SH-DATA ETHERNET CAT. 7A

Type: **4x(2x23AWG/7) S/FT**

	Dati tecnici	Technical data
Conduttore Conductor	filì di rame rosso - 23 AWG/7 (0,26 mm ²)	stranded bare copper wire – 23 AWG/7 (0,26 mm ²)
Isolamento Insulation	polietilene espanso secondo EN 50290-2-23 - diametro nominale Ø 1,50 mm	foam-skin polyethylene according to EN 50290-2-23 – nom Ø 1,50 mm
Colori delle coppie Pair colours	bianco/blu-blu ÷ bianco/arancio-arancio ÷ bianco/verde-verde ÷ bianco/marrone-marrone	white/blue-blue ÷ white/orange-orange ÷ white/green-green ÷ white/brown-brown
Schermo sulle coppie Pair screen	nastro alluminio/poliestere (alluminio verso l'esterno)	aluminium/polyester tape (outside aluminium surface)
Riunitura assembling	coppie schermate riunite	shielded pairs stranded together
Schermo totale Overall shield	treccia di rame stagnato con copertura >85%	tinned copper braid 85% coverage
Guaina esterna Outer jacket	SHF1 compound in accordo alla IEC 60092-360. Colore: GRIGIO	SHF1 compound according to IEC 60092-360. Colour: GREY
	SHF2 compound in accordo alla IEC 60092-360. Colore: NERO	SHF2 compound according to IEC 60092-360. Colour: BLACK
Comportamento al fuoco Fire behaviour	IEC 60332-3-22 non propagante il fuoco IEC 60332-1-2 non propagante la fiamma IEC 60754-1 assenza di alogeni IEC 60754-2 acidità dei fumi IEC 60684-2 contenuto di fluoro IEC 61034 densità dei fumi	IEC 60332-3-22 not fire propagation IEC 60332-1-2 not flame propagation IEC 60754-1 halogen content IEC 60754-2 pH and conductivity IEC 60684-2 fluorine content IEC 61034 smoke emission
Resistenza chimica Chemical resistance	Versione con SHF1: resistente ai raggi UV secondo UL 758 (protezione raccomandata in caso di contatto con acqua salata o nebulizzazione)	SHF1 version: UV resistant according to UL 758 (protection recommended in case of direct contact with salty water or nebulization)
	Versione con SHF2: resistente ai raggi UV secondo UL 758, resistente all'olio secondo IEC 60092-360 tab. 9-10, acqua salata, agenti atmosferici	SHF2 version: UV resistant according to UL 758, oil resistant according to IEC 60092-360 tab. 9-10, salty water, weathering
Marcatura Marking	Code NP902CH for SHF1 version : UNIKA (Italy) SH-DATA/ SHF1 ETHERNET CABLE CAT.7A (4x2xAWG23/7) - IEC 60332-3-22 - traceability code	
	Code NP902C for SHF2 version : UNIKA (Italy) SH-DATA/ SHF2 ETHERNET CABLE CAT.7A (4x2xAWG23/7) - IEC 60332-3-22 - traceability code	



SHF1 SHF2		NP902AH NP902A	NP902BH NP902B	NP902CH NP902C
		4x(2x26 AWG/7) S/FTP	4x(2x24 AWG/7) S/FTP	4x(2x23 AWG/7)S/FTP
Massima resistenza in cc a 20°C Max DC conductor resistance		145,0 Ω/km	94,2 Ω/km	74,5 Ω/km
Capacità Capacitance		46 pF/m	42 pF/m	45 pF/m
Impedenza caratteristica (1÷100 MHz) Characteristic impedance (1÷100 MHz)		100 Ω (±15%)	100 Ω (±15%)	100 Ω (±15%)
Tensione nominale Voltage rating		125 V	125 V	125 V
Minima resistenza di isolamento Min insulation resistance		5,0 GΩxkm	5,0 GΩxkm	5,0 GΩxkm
Velocità nominale di propagazione 100MHz Nominal velocity of propagation 100MHz		77%	77%	77%
Impedenza di trasferimento Transfer impedance	1 MHz	10 mΩ/m	10 m Ω/m	10 dB/100m
	10 MHz	10 mΩ/m	8 mΩ/m	8 dB/100m
	30 MHz	10 mΩ/m	10 mΩ/m	10 dB/100m
Attenuazione nominale Nominal attenuation	10 MHz	8,3 dB/100m	5,9 dB/100m	5,7 dB/100m
	100 MHz	26,3 dB/100m	19,0 dB/100m	18,7 dB/100m
	250 MHz	42,0 dB/100m	30,8 dB/100m	30,1 dB/100m
	600 MHz	66,1 dB/100m	49,5 dB/100m	47,6 dB/100m
Peso nominale Nominal weight		59 kg/km	82 kg/km	92 kg/km
Diametro nominale Nominal diameter		6,7 mm	8,2 mm	8,4 mm
Raggio di curvature minimo Minimum bending radius		10 x outer diameter		
Range di temperatura Temperature range		-15 °C ÷ +90°C (SHF1 version) -40 °C ÷ +90 °C (SHF2 version)		
Norme di riferimento Standard reference		EN 50173; EN 50288-4-2; IEC 61156-6; TIA/EIA 568 B.2; ISO/IEC 11801		
Link length recommended CLASS D (100 MHz) CHANNEL LINK: CLASS D (100 MHz) PERMANENT LINK:		≤ 84 m ≤ 74 m	≤ 106 m ≤ 92 m	≤ 116 m ≤ 104 m
Link length recommended CLASS D (500 MHz) CHANNEL LINK: CLASS D (500 MHz) PERMANENT LINK:		≤ 78 m ≤ 68 m	≤ 102 m ≤ 90 m	≤ 109 m ≤ 95 m
Link length recommended CLASS D (600 MHz) CHANNEL LINK: CLASS D (600 MHz) PERMANENT LINK:		≤ 76 m ≤ 66 m	≤ 100 m ≤ 88 m	≤ 107 m ≤ 93 m
Link length recommended CLASS D (1000 MHz) CHANNEL LINK: CLASS D (1000 MHz) PERMANENT LINK:		≤ 72 m ≤ 62 m	≤ 96 m ≤ 83 m	≤ 100 m ≤ 87 m

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