

**Cat. 6 4x2x23/1 AWG S/FTP SBA LSZH-SHF1
COMPUTER & LAN
P/N 9MG0560101**

INDUSTRY

Applications

Offshore installations, Maritime Environment, Indoor/Outdoor use, fixed installations, Optimized for IEEE 802.3bt 4PPoE, Compliance with low voltage safety earth-connection and grounding regulations, Ships, High speed & Light craft



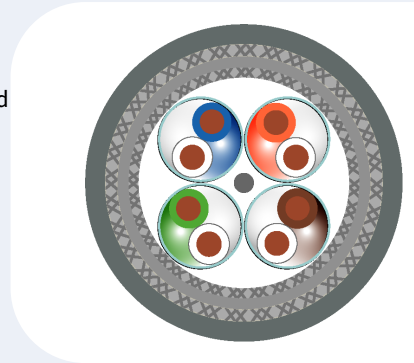
Outer Jacket Material
FR-LSZH



Outer diameter
11.8 mm nom.



Weight
225 kg/km



General Construction

4 individually foil-shielded twisted pairs, cabled together, an inner jacket, a galvanized Steel Braid Armor (SBA) and an outer jacket.

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	23
Conductor Construction	Solid
Insulation Material	SFS PO
Insulation O.D. (mm nom)	1.38
Conductor Unit Identification	Solid Color
Color Code	Per TIA/EIA 568-B
Ind. Shield Design	Helically applied aluminum foil, 100% coverage
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned-copper braid
Overall Braid Material	Annealed Tinned Copper
Braid Coverage (% nom)	55
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-wire size (mm)	0.41
Overall Drain-wire Construction	Solid
Inner Jacket Material	FR-LSZH
Inner Jacket Thickness (mm nom)	0.8
Inner Jacket Diameter (mm min)	7.9

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Inner Jacket Color	Gray
Armoring	Braided Galvanized Steel
Total Number Of Conductors	8
Outer Jacket Color	Black
Other Jacket Colors Available	Yes
Marking	Teldor Standard Per request

Performance

Frequency Range (MHz)	1 - 250
Impedance (Ω)	100
Transfer Impedance Grade	Grade 1
Coupling Attenuation	Type I
DC Resistance (Ω/km nom)	73
Max. Resistance Unbalance (%)	2
Max. Screen Resistance (Ω/Km @20°C)	20
Capacitance Unbalance (pF/m max)	1.2
Velocity of Propagation (% nom)	78
Propagation Delay Skew (ns/100m max)	30
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance (GΩ•km)	5
Voltage Rating (V)	110V not to be used as LF main power supply
Max. Installation Tensile Load (N max.)	250
Min. Bend Radius (mm)	11xD
Min. Operating Temperature (°C)	- 40
Max. Operating Temperature (°C)	+ 85
UV Resistance	Yes
Rodent Resistance	Yes

Standards

Flammability Rating
IEC 60332-1
IEC 60332-3-22
IEC 60754-1/2
IEC 61034-1/2

Applicable Standards
DNV certified
ABS certified
LLOYDS certified
RMRS certified
IEC 60092-360
IEC 61156-5
IEEE 802.3at (PoE+)
ISO/IEC 11801-1
RoHS 3 2015/863/EU



Electrical Properties

Cat. 6 Screened-Pair Horizontal Cables*

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Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6
1	2.0	2.8	90.0	72.3	93.0	75.3	22.0	20.0	90.0	65.0	93.0	68.0
4	3.7	3.8	85.0	63.3	88.0	66.3	25.0	23.0	90.0	53.0	93.0	56.0
10	5.7	6.0	85.0	57.3	88.0	60.4	28.0	25.0	80.0	45.0	83.0	48.0
20	8.1	8.5	85.0	52.8	88.0	55.8	28.0	25.0	80.0	39.0	83.0	42.0
30	10.0	10.5	85.0	50.1	88.0	53.1	27.0	23.8	70.0	35.5	73.0	38.5
100	19.0	19.9	80.0	42.3	83.0	45.3	24.0	21.1	63.0	25.0	66.0	28.0
150	23.6	24.9	80.0	39.7	83.0	42.7	22.0	18.8	60.0	21.5	63.0	24.5
200	27.7	29.1	80.0	37.8	83.0	40.8	21.0	18.0	58.0	19.0	61.0	22.0
250	31.4	33.0	77.0	36.3	80.0	39.3	20.0	17.3	55.0	17.0	58.0	20.0

*Supplied cables meet the minimum Cat. 6 transmission requirements as per IEC 61156-5 Ed. 2

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