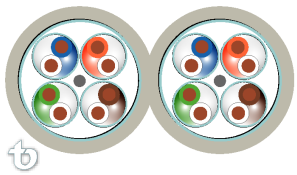
Cat. 7 2[4x2x23/1 AWG] F/FTP FIG-8 FR-LSZH
COMPUTER & LAN
P/N 9827A58103

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Applications

Indoor use, fixed installations, High data rates, Telecom systems, Optimized for IEEE 802.3bt 4PPoE



Outer Jacket Material
FR-LSZH

Weight
112 kg/km

General Construction

The cable contains two groups of 4 individually foil-shielded twisted pairs, cabled together around a drain wire, an overall foil-shield. and jacketed with a FR-LSZH compound as FIG-8 ('Siamese') form. It conforms to IEC 61156-5 Cat. 7, Cat 6_A, Cat. 6 and Cat. 5e requirements, tested up to 1000 MHz.

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	23
Conductor Size (mm)	0.58
Conductor Construction	Solid
Insulation Material	PO
Insulation O.D. (mm nom)	1.35
Conductor Unit Identification	Solid Color
Color Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	Helically applied aluminum foil, 100% coverage
Drain-Wire 1 Material	Annealed Tinned Copper
Drain-Wire 1 Construction	Solid
Drain-Wire 1 Size (AWG)	0.41
Overall Shield Design	Helically applied aluminum foil, 100% coverage
Overall Shield Material	Aluminum/Polyester Foil
Total Number Of Conductors	16
Outer Jacket Dimension – X (mm nom)	16.5
Outer Jacket Dimension – Y (mm nom)	8
Outer Jacket Color	Red

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Other Jacket Colors Available	Yes
Marking	Teldor Standard|Per request

Performance

Frequency Range (MHz)	1 - 600
Impedance (Ω)	100
Coupling Attenuation	Type II
Max. Resistance Unbalance (%)	2
Capacitance Unbalance (pF/m max)	1.2
Velocity of Propagation (% nom)	78
Propagation Delay Skew (ns/100m max)	20
Min. Insulation Resistance (GΩ•km)	5
Max. Installation Tensile Load (N max.)	150
Min. Bend Radius (mm)	65 (small axis)
Min. Operating Temperature (°C)	-30
Max. Operating Temperature (°C)	+65

Standards

Flammability Rating
IEC 60332-1
IEC 60754-1/2
IEC 61034-1/2
UL 1581 VW-1
EN 50575:2014 E_{ca}s1d1a1 (CPR)

Applicable Standards
IEC 61156
IEC 61156-5
IEEE 802.3af (PoE)
IEEE 802.3at (PoE+)
IEEE 802.3bt (4PPoE)
ISO/IEC 11801-1
RoHS 3 2015/863/EU

Electrical Properties

Cat. 7 Horizontal Cables*

Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ANEXT dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7
1	2.0	2.0	105.0	99.4	108.0	102.4	22.0	20.0	68.0	N/A	95.0	75.0	98.0	78.0
4	3.6	3.7	98.0	90.4	101.0	93.4	25.0	23.0	68.0	N/A	90.0	75.0	93.0	78.0
10	5.6	5.8	95.0	84.4	98.0	87.4	28.0	25.0	68.0	N/A	86.0	71.0	89.0	74.0
20	7.9	8.3	90.0	80.0	93.0	83.0	28.0	25.0	68.0	N/A	80.0	65.0	83.0	68.0
30	9.7	10.2	85.0	77.2	88.0	80.2	27.0	23.8	68.0	N/A	76.0	61.5	79.0	64.5
100	18.0	19.0	80.0	69.4	83.0	72.4	24.0	21.1	68.0	N/A	66.0	51.0	69.0	54.0
150	22.4	23.6	78.0	66.7	81.0	69.7	22.0	18.8	65.0	N/A	63.0	47.5	66.0	50.5
200	26.0	27.5	78.0	65.0	81.0	68.0	21.0	18.0	65.0	N/A	60.0	45.0	63.0	48.0
250	29.4	31.0	75.0	63.4	78.0	66.4	20.0	17.3	62.0	N/A	58.0	43.0	61.0	46.0
300	32.5	34.2	75.0	62.2	78.0	65.2	19.0	17.3	62.0	N/A	52.0	41.5	55.0	44.5
400	38.0	40.0	70.0	60.4	73.0	63.4	19.0	17.3	62.0	N/A	49.0	38.9	52.0	41.9
500	43.0	45.2	70.0	58.9	73.0	61.9	19.0	17.3	62.0	N/A	47.0	37.0	50.0	40.0
600	47.6	50.1	70.0	57.7	73.0	60.7	19.0	17.3	62.0	N/A	45.0	35.4	48.0	38.4

*Supplied cables meet the minimum Cat. 7 transmission requirements as per IEC 61156-5 Ed. 2

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