

Cat. 6_A 2x4x2x23/1 AWG FIG-8 10GBASE U/FTP FR-LSZH COMPUTER & LAN P/N 83G0208139

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Applications

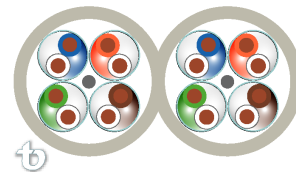
Indoor use, fixed installations, High bandwidth digital applications with low BER



Outer Jacket Material
FR-LSZH



Weight
110 kg/km



General Construction

Eight individually foil shielded twisted pairs are cabled together with drain wires into two cores. The two cores are laid in parallel and jacketed in a FIG-8 ('Siamese') formation.

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	23
Conductor Construction	Solid
Insulation Material	Cellular PO
Insulation O.D. (mm nom)	1.38
Conductor Unit Identification	Solid/stripe
Color Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	100% Coverage
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-wire size (mm)	0.41
Overall Drain-wire Construction	Solid
Total Number Of Conductors	16
Outer Jacket Dimension – X (mm nom)	15.0
Outer Jacket Dimension – Y (mm nom)	7.4
Outer Jacket Color	Gray RAL 7035
Marking	Teldor Standard Per request

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Performance

Frequency Range (MHz)	1 - 500
Impedance (Ω)	100
Coupling Attenuation	Type II
Max. Resistance Unbalance (%)	2
Capacitance Unbalance (pF/m max)	1.2
Velocity of Propagation (% nom)	80
Propagation Delay Skew (ns/100m max)	35
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance (GΩ·km)	5
Max. Installation Tensile Load (N max.)	220
Min. Bend Radius (mm)	90
Min. Operating Temperature (°C)	-30
Max. Operating Temperature (°C)	+65

Standards

Flammability Rating
 IEC 60332-1
 UL 1581 VW-1
 EN 50575:2014 D_{ca}s2d2a2 (CPR)

Applicable Standards

IEC 61156
 IEC 61156-5
 IEEE 802.3af (PoE)
 IEEE 802.3at (PoE+)
 IEEE 802.3bt (4PPoE)
 ISO/IEC 11801-1
 ANSI/TIA-568-C.2



Electrical Properties

Cat. 6_A Screened-pair Work Area 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. 6 _A	Typical Value	Cat. 6 _A	Typical Value	Cat. 6 _A	Typical Value	Cat. 6 _A	Typical Value	Cat. 6 _A	Typical Value	Cat. 6 _A	Typical Value	Cat. 6 _A
1	3.0	3.1	95.0	72.3	98.0	75.3	22.0	20.0	70.0	67.0	85.0	65.0	88.0	68.0
4	5.6	5.8	95.0	63.3	98.0	66.3	25.0	23.0	70.0	67.0	73.0	53.0	76.0	56.0
10	8.7	9.0	95.0	57.3	98.0	60.3	28.0	25.0	70.0	67.0	65.0	45.0	68.0	48.0
20	12.4	12.8	90.0	52.8	93.0	55.8	28.0	25.0	70.0	67.0	59.0	39.0	62.0	42.0
30	15.3	15.8	85.0	50.1	88.0	53.1	27.0	23.8	70.0	67.0	55.4	35.4	58.4	38.4
100	29.0	29.9	80.0	42.3	83.0	45.3	24.0	21.1	67.0	62.5	45.0	25.0	48.0	28.0
150	36.2	37.4	78.0	39.7	81.0	42.7	22.0	18.8	66.0	59.8	41.5	21.5	44.5	24.5
200	42.5	43.8	78.0	37.8	81.0	40.8	21.0	18.0	65.0	58.0	49.0	19.0	52.0	22.0
250	48.2	49.7	75.0	36.3	78.0	39.3	20.0	17.3	63.0	56.5	37.0	17.0	40.0	20.0
300	53.4	55.1	75.0	35.1	78.0	38.1	19.0	17.3	62.0	55.3	35.5	15.5	38.5	18.5
400	63.1	65.1	70.0	33.3	73.0	36.3	19.0	17.3	61.0	53.4	33.0	13.0	36.0	16.0
500	71.9	74.0	70.0	31.8	73.0	34.8	19.0	17.3	59.0	52.0	31.0	11.0	34.0	14.0

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

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