

Cat. 6_A 4x2x23/1 AWG U/FTP Ungrounded construction FR-LSZH COMPUTER & LAN P/N 83U0204139

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Applications

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



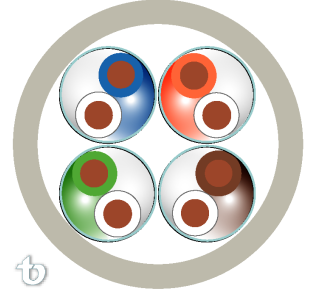
Outer Jacket Material
FR-LSZH



Outer diameter
7.4 mm nom.



Weight
51 kg/km



General Construction

4 Ungrounded screened Twisted Pairs cabled together and jacketed.

This special cable construction is designed for installation in U/UTP application with enhanced performance.

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
Conductor Unit Lay-Up	Pairs
Total Number Of Conductors	8
Outer Jacket Color	Gray RAL 7035
Marking	Teldor Standard Per request

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Performance

Frequency Range (MHz)	1 - 500
Impedance (Ω)	100
Max. DC Resistance (Ω/km@20°C)	73
Max. Resistance Unbalance (%)	2
Capacitance (pF/m)	45
Capacitance Unbalance (pF/m max)	1.2
Velocity of Propagation (% nom)	80
Propagation Delay Skew (ns/100m max)	25
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance (GΩ•km)	5
Max. Installation Tensile Load (N max.)	130
Min. Bend Radius (mm)	50
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+70

Standards

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

Applicable Standards
 IEC 61156-5
 ISO/IEC 11801-1
 TIA/EIA-568
 RoHS 3 2015/863/EU



Electrical Properties

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	2.0	2.0	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	3.7	3.8	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	5.6	5.9	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	7.9	8.4	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	9.7	10.3	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	18.0	19.1	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	22.4	23.6	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	26.0	27.6	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	29.4	31.0	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	32.5	34.3	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	38.0	40.0	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	43.0	45.2	70.0	31.8	73.0	34.8	19.0	17.3	59.0	52.0	31.0	11.0	34.0	14.0

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