

Cat. 6_A 4x2x26/7 AWG S/FTP Work Area FR-LSZH UL

COMPUTER & LAN

P/N 992824U129

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Applications

Indoor use, fixed or portable installations, High data rates, Work area cabling, Indoor use, portable installations, Patch cord



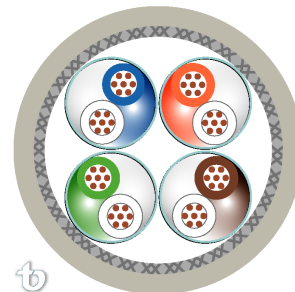
Outer Jacket Material
FR-LSZH



Outer diameter
6.5 mm nom.



Weight
45 kg/km



General Construction

4 individually foil-shielded twisted pairs, cabled, overall braid-shielded and jacketed.

Design & Materials

Detailed Schematic	Cable is compatible with RJ-45 modular shielded plugs.
Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	26
Conductor Size (mm)	7x0.17
Conductor Construction	Stranded
Insulation Material	SFS PO
Insulation O.D. (mm nom)	1.0
Conductor Unit Identification	Solid/stripe
Color Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminum/Polyester Foil
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 Shield	Yes
Overall Braid Material	Annealed Tinned Copper
Braid Coverage (% nom)	50
Total Number Of Conductors	8
Outer Jacket Color	Light Gray

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Other Jacket Colors Available

Yes

Marking

Teldor Standard|Per request

Performance

Frequency Range (MHz)	1 - 500
Impedance (Ω)	100
Transfer Impedance Grade	Grade 1
Coupling Attenuation	Type I
DC Resistance (Ω/km nom)	145
Max. Resistance Unbalance (%)	2
Capacitance Unbalance (pF/m max)	1.2
Velocity of Propagation (% nom)	78
Propagation Delay Skew (ns/100m max)	20
Dielectric Strength (V/minute)	500
Dielectric Strength to Shield (V/minute)	500
Min. Insulation Resistance (MΩ•km)	5000
Min. Insulation Resistance (GΩ•km)	5
Max. Installation Tensile Load (N max.)	50
Min. Bend Radius (mm)	35
Min. Operating Temperature (°C)	-20
Max. Operating Temperature (°C)	+70

Standards

Flammability Rating
IEC 60332-1
UL 1581 VW-1
UL CMX

Applicable Standards
IEC 61156
IEEE 802.3af (PoE)
ISO/IEC 11801-1
ANSI/TIA-568-C.2
RoHS 3 2015/863/EU
RoHS 3 2015/863/EU



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

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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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