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

COMPUTER & LAN
P/N 9828G22103

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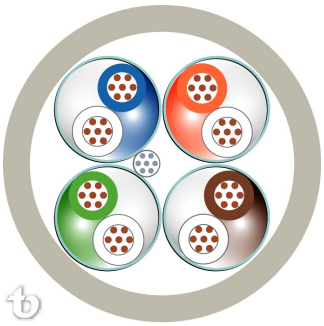
Applications

High bandwidth digital applications with low BER, Indoor use, fixed or portable installations, High data rates, Work area cabling, Fixed or portable installations, Indoor use, portable installations



Outer Jacket Material	Outer diameter	Weight
FR-LSZH	6.0 mm nom.	39 kg/km

General Construction

The cable contains 4 individually foil-screened twisted pairs, cabled together with stranded drain wire. Overall jacketed with FR-LSZH compound jacket

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	26
Conductor Construction	7x0.16 mm
Insulation Material	PO
Insulation O.D. (mm nom)	1.00
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 Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	26
Overall Drain-wire Construction	Stranded
Total Number Of Conductors	8
Outer Jacket Color	Red
Marking	Teldor Standard|Per request

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Cables & Systems Ltd.

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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)	78
Propagation Delay Skew (ns/100m max)	30
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	500
Min. Insulation Resistance (GΩ•km)	5
Max. Installation Tensile Load (N max.)	90
Min. Bend Radius (mm)	40
Min. Operating Temperature (°C)	–40
Max. Operating Temperature (°C)	+70

Standards

Flammability Rating
IEC 60332-1
EN 50575:2014 E_{ca}

Applicable Standards
IEC 61156
ISO/IEC 11801-1
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
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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Version 1.2 | Last update: 2024-07-22