

**Cat. 6 4x2x23 AWG U/FTP FR-PVC
COMPUTER & LAN
P/N 8301204104**

TELECOM

Applications

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



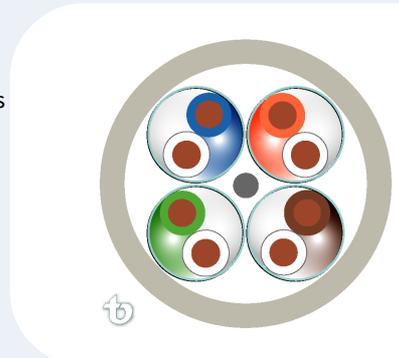
Outer Jacket Material
FR-PVC



Outer diameter
7.2 mm nom.



Weight
50 kg/km



General Construction

The cable contains 4 individually foil-shielded Twisted Pairs (U/FTP), cabled together and protected by an outer jacket .

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	23
Conductor Construction	Solid
Insulation Material	SFS PO
Insulation O.D. (mm nom)	1.31
Color Code	Per TIA/EIA 568-B
Conductor Color Code	White x Blue, White x Orange, White x Green, White x Brown
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	Aluminum face outwards
Drain-Wire 1 Material	Annealed Tinned Copper
Drain-Wire 1 Construction	Solid
Drain-Wire 1 Size (mm)	0.41
Total Number Of Conductors	8
Outer Diameter (mm nom)	7.2
Outer Jacket Color	Blue
Marking	Per request
Outer Jacket Material	FR-PVC

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Performance

Frequency Range (MHz)	1 - 400
Impedance (Ω)	100
Coupling Attenuation	Type I
DC Resistance (Ω/km nom)	73
Max. Resistance Unbalance (%)	2
Capacitance Unbalance (pF/m max)	1.2
Propagation Delay Skew (ns/100m max)	35
Dielectric Strength (V/minute)	700
Min. Insulation Resistance (GΩ•km)	5
Max. Installation Tensile Load (N max.)	130
Min. Bend Radius (mm)	35
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+70

Standards

Flammability Rating
IEC 60332-1
UL 1581 VW-1

Applicable Standards
ISO/IEC 11801-1
TIA/EIA-568



Electrical Properties

Cat. 6 Screened-Pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6	Typical Value	Cat. 6
1	2.0	2.8	90.0	72.3	93.0	75.3	22.0	20.0	90.0	65.0	93.0	68.0
4	3.7	3.8	85.0	63.3	88.0	66.3	25.0	23.0	90.0	53.0	93.0	56.0
10	5.7	6.0	85.0	57.3	88.0	60.4	28.0	25.0	80.0	45.0	83.0	48.0
20	8.1	8.5	85.0	52.8	88.0	55.8	28.0	25.0	80.0	39.0	83.0	42.0
30	10.0	10.5	85.0	50.1	88.0	53.1	27.0	23.8	70.0	35.5	73.0	38.5
100	19.0	19.9	80.0	42.3	83.0	45.3	24.0	21.1	63.0	25.0	66.0	28.0
150	23.6	24.9	80.0	39.7	83.0	42.7	22.0	18.8	60.0	21.5	63.0	24.5
200	27.7	29.1	80.0	37.8	83.0	40.8	21.0	18.0	58.0	19.0	61.0	22.0
250	31.4	33.0	77.0	36.3	80.0	39.3	20.0	17.3	55.0	17.0	58.0	20.0

*Supplied cables meet the minimum Cat. 6 transmission requirements as per IEC 61156-5 Ed. 2

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Version 1.1 | Last update: 2017-07-13