

Cat. 6 4x2x23/1 AWG S/FTP PVC

Part Number: 9828604102

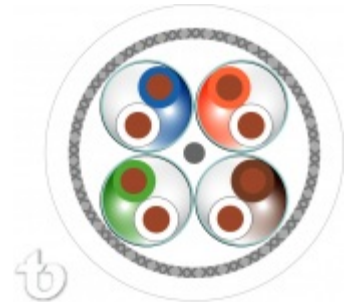
Applications: Telecom systems, High data rates, High bandwidth digital applications with low BER, Indoor use, fixed installations

General Construction: 4 individually foil shielded twisted pairs cabled together with drain wire, overall braid shielded and jacketed.

Outer Jacket Material: FR-PVC

Outer Diameter: 7.6 mm nom.

Weight: 62 kg/km



Design & Materials

Conductor Material:	Annealed Bare Copper
Conductor Size:	23 AWG
Conductor Construction:	Solid
Insulation Material:	SFS PO
Insulation O.D.:	1.31 mm nom.
Color Code:	Per TIA/EIA 568-B
Ind. Shield Design:	Helically applied aluminum foil, 100% coverage
Overall Shield Material:	Tinned-copper braid
Overall Braid Shield:	Yes
Braid Coverage:	45 % nom.
Overall Drain-wire Material:	Annealed Tinned Copper
Overall Drain-wire size:	0.41 mm
Overall Drain-wire Construction:	Solid
Outer Jacket Color:	White
Other Jacket Colors Available:	Yes
Marking:	Per request, Teldor Standard

Standards

Applicable Standards:	IEC 61156-5, IEC 61156, IEEE 802.3at (PoE+), IEEE 802.3af (PoE), IEEE 802.3bt (4PPoE), ISO/IEC 11801-1, ANSI/TIA-568-C.2
Flammability Rating:	IEC 60332-1, UL 1581 VW-1

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

Performance

Frequency Range:	1 - 400 MHz
Impedance:	100 Ω
Transfer Impedance:	Grade 2
Coupling Attenuation:	Type I
Max. DC Resistance :	73 Ω/km@20°C
Max. Resistance Unbalance:	2 %
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	78 % nom.
Propagation Delay Skew:	35 ns/100m max.
Dielectric Strength:	700 V/minute
Dielectric Strength to Shield:	700 V/minute
Min. Insulation Resistance :	5 GΩ•km
Min. Bend Radius:	55 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-30 °C

Prepared By	Revised By	Version Num	Modified on
Jacob Ben Ary	Eyal Stroumza	1.4	22-08-2021

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