

Cat. 5e 2x(4x2x24/1 AWG) FIG-8 F/UTP PVC COMPUTER & LAN P/N 8371804129

TELECOM

Applications

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



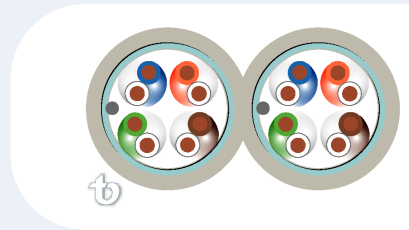
Outer Jacket Material
FR-PVC



Outer diameter
6.1 mm nom.



Weight
77 kg/km



General Construction

The cable contains two overall foil shielded groups of 4 twisted pairs.

The two groups are laid in parallel in a Fig-8 ('Siamese') formation and overall jacketed with FR-PVC compound jacket.

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	24
Conductor Size (mm)	0.51
Conductor Construction	Solid
Insulation Material	Solid PO
Insulation O.D. (mm nom)	1.07
Conductor Unit Identification	Solid/stripe
Color Code	Per TIA/EIA 568-B
Drain-Wire 1 Material	Annealed Tinned Copper
Drain-Wire 1 Construction	Solid
Drain-Wire 1 Size (mm)	0.41
Drain-Wire 1 Size (AWG)	26
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Foil Shield	Yes
Total Number Of Conductors	16
Outer Jacket Dimension – X (mm nom)	6.1
Outer Jacket Dimension – Y (mm nom)	12.3
Outer Jacket Color	Light Gray
Marking	Teldor Standard Per request

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Performance

Frequency Range (MHz)	1 - 250
Impedance (Ω)	100
DC Resistance (Ω /km nom)	93
Max. Resistance Unbalance (%)	2
Capacitance Unbalance (pF/m max)	1.2
Propagation Delay Skew (ns/100m max)	35
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance ($M\Omega \cdot km$)	5000
Min. Insulation Resistance ($G\Omega \cdot km$)	5
Max. Installation Tensile Load (N max.)	110
Min. Bend Radius (mm)	70 (small OD axis)
Min. Operating Temperature ($^{\circ}C$)	-30
Max. Operating Temperature ($^{\circ}C$)	+65

Standards

Flammability Rating
IEC 60332-1
UL 1581 VW-1

Applicable Standards
IEC 61156
TIA/EIA-568
RoHS 3 2015/863/EU



Electrical Properties

Cat. 5e Horizontal Cables*

Freq. MHz	Attenuation dB/100m 20 $^{\circ}C$		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e
1	2.0	2.1	68.3	62.3	71.3	65.3	22.0	20.0	64.0	61.0	67.0	64.0
4	3.9	4.1	59.3	53.3	62.3	56.3	25.0	23.0	52.0	49.0	55.0	52.0
10	6.2	6.5	53.3	47.3	56.3	50.3	28.0	25.0	44.0	41.0	47.0	44.0
20	8.8	9.3	48.8	42.8	51.8	45.8	28.0	25.0	38.0	35.0	41.0	38.0
30	10.9	11.5	46.1	40.1	49.1	43.1	27.0	23.8	35.0	31.5	38.0	34.5
60	15.8	16.6	41.6	35.6	44.6	38.6	24.0	21.1	28.0	25.4	31.0	28.4
100	21.0	22.0	38.3	32.3	41.3	35.3	22.0	18.8	24.0	21.0	27.0	24.0

*Supplied cables meet minimum Cat. 5e transmission requirements of IEC 61156-5 Ed. 2 and ANSI/EIA/TIA 568-B.2

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