

Cat. 5e 4x2x24/1 AWG F/UTP SBA T1 PVC/PVC COMPUTER & LAN P/N 4T00138101

DEFENSE

Applications

Low temperature Indoor/Outdoor applications, Indoor/Outdoor use, fixed installations, Low temperature, outdoor fixed installations, High data rates



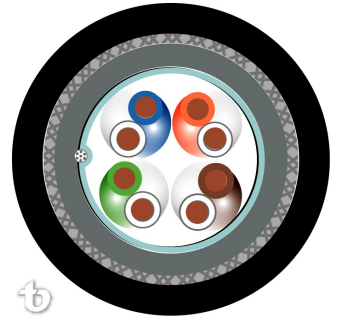
Outer Jacket Material
UV resistant FR-PVC



Outer diameter
9.5 mm nom.



Weight
120 kg/km



General Construction

4 twisted pairs, overall shielded with an aluminum-foil and a drain wire. Internal jacket, overall SBA (Steel Braid Armor) and an outer jacket.

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	24
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
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Helically applied aluminum foil, 100% coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Foil Shield	Yes
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-wire size (mm)	0.41
Overall Drain-wire Construction	Solid
Inner Jacket Material	PVC
Inner Jacket Thickness (mm nom)	6.2
Inner Jacket Color	Light Gray
Armoring	Braided Galvanized Steel
Armor Coverage (% min)	55

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Total Number Of Conductors	8
Outer Jacket Color	Black
Marking	Teldor Standard Per request

Performance

Frequency Range (MHz)	1 - 100
Impedance (Ω)	100
Transfer Impedance Grade	Grade 2
Coupling Attenuation	Type I
Max. DC Resistance (Ω/km@20°C)	95
Max. Resistance Unbalance (%)	2
Capacitance (pF/m)	50
Capacitance Unbalance (pF/m max)	1.3
Velocity of Propagation (% nom)	68
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance (GΩ•km)	5
Max. Installation Tensile Load (N max.)	350
Min. Bend Radius (mm)	130
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+80
UV Resistance	Yes

Standards

Flammability Rating
 IEC 60332-1
 UL 1581 VW-1

Applicable Standards
 IEC 61156-5
 ISO/IEC 11801-1
 TIA/EIA-568
 RoHS 3 2015/863/EU



Electrical Properties

Freq. MHz	Attenuation dB/100m 20°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



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