

Cat. 7_A 4x2x26/7 AWG S/FTP Work Area PU Tactic

COMPUTER & LAN

P/N 9928284101

DEFENSE

Applications

High data rates, Work area cabling, Fixed or portable installations, Indoor use, portable installations, Patch cord, Outdoor installations in harsh environments, Indoor & Outdoor Use, Fixed or Portable Installation



Outer Jacket Material
FRZH-PU



Outer diameter
6.6 mm nom.



Weight
40 kg/km



General Construction

The cable contains 4 individually foil-shielded twisted pairs, overall braid-shielded, and jacketed with PU UV resistant compound.

The cable conforms to IEC 61156-6, Cat. 5e, Cat. 6, Cat.6_A, Cat. 7 and Cat. 7_A requirements for shielded work area cables. The cable is compatible with RJ-45 modular plugs.

Design & Materials

Detailed Construction

Cable features

1. Excellent resistance to oils, fuels, and chemicals
2. Very good crush resistant
3. Designed for tactic applications and use.

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	26
Conductor Size (mm)	7x0.16
Conductor Construction	Stranded
Insulation Material	Cellular PO
Insulation O.D. (mm nom)	1.0
Color Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	Aluminum face outwards
Conductor Unit Lay-Up	Pairs
Overall Braid Shield	Yes
Overall Braid Material	Annealed Tinned Copper
Braid Coverage (% nom)	45
Total Number Of Conductors	8
Outer Jacket Color	Black

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Marking

Teldor Standard|Per request

Performance

Frequency Range (MHz)	1 - 1000
Impedance (Ω)	100
Transfer Impedance Grade	Grade 1
Coupling Attenuation	Type I
DC Resistance (Ω/km nom)	145
Max. Resistance Unbalance (%)	2
Capacitance Unbalance (pF/m max)	1.2
Velocity of Propagation (% nom)	78
Propagation Delay Skew (ns/100m max)	20
Dielectric Strength (V/minute)	500
Dielectric Strength to Shield (V/minute)	500
Min. Insulation Resistance (MΩ•km)	5000
Min. Insulation Resistance (GΩ•km)	5
Max. Installation Tensile Load (N max.)	150
Min. Bend Radius (mm)	35
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+70
UV Resistance	Yes

Standards

Flammability Rating
IEC 60332-1

Applicable Standards
IEC 61156
IEC 61156-6
IEEE 802.3af (PoE)
IEEE 802.3at (PoE+)
ISO/IEC 11801-1
ANSI/TIA-568.2-D
RoHS 3 2015/863/EU



Electrical Properties

Cat. 7_A Work Area Cables*

Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ANEXT dB		PS ACR-F dB	
	Typical Value	Cat. 7 _A	Typical Value	Cat. 7 _A	Typical Value	Cat. 7 _A	Typical Value	Cat. 7 _A	Typical Value	Cat. 7 _A	Typical Value	Cat. 7 _A
1	2.9	3.0	96.0	75.0	99.0	78.0	22.0	20.0	78.0	67.0	90.0	75.0
4	5.4	5.6	96.0	75.0	99.0	78.0	25.0	23.0	78.0	67.0	90.0	75.0
10	8.5	8.7	96.0	75.0	99.0	78.0	28.0	25.0	78.0	67.0	86.0	75.0
20	12.1	12.3	94.0	75.0	97.0	78.0	28.0	25.0	78.0	67.0	80.0	65.0
30	14.8	15.0	90.0	75.0	93.0	78.0	27.0	23.8	78.0	67.0	76.0	61.5
100	27.0	27.8	85.0	75.0	88.0	78.0	24.0	21.1	78.0	67.0	66.0	51.0
200	38.3	39.7	85.0	71.0	88.0	74.0	21.0	18.0	78.0	67.0	60.0	45.0
300	46.9	49.0	85.0	68.2	88.0	71.2	19.0	15.6	78.0	67.0	52.0	41.5
600	66.3	70.6	80.0	63.7	83.0	66.7	19.0	15.6	75.0	64.0	45.0	35.5

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700	71.7	76.7	80.0	62.7	83.0	65.4	19.0	15.6	73.0	63.0	45.0	34.0
900	81.3	87.7	80.0	61.1	83.0	64.1	19.0	15.6	73.0	61.0	45.0	32.0
1000	85.0	92.9	78.0	60.4	81.0	63.4	19.0	15.6	73.0	60.0	45.0	31.0

*Supplied cables meet the minimum Cat. 7_A transmission requirements as per IEC 61156-6 Ed. 2

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