Cat. 7 4x2x23/7 AWG S/FTP SOFT PU COMPUTER & LAN P/N 9928466101

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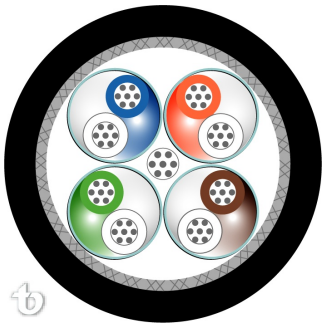
Applications

High bandwidth digital applications with low BER, High data rates, Work area cabling, Drag Chain Systems, Enhanced thermal performance for all PoE applications, Indoor & Outdoor Use, Fixed or Portable Installation



Outer Jacket Material	Outer diameter	Weight
FRZH-PU	9.2 mm nom.	102 kg/km

General Construction

4 individually aluminum-foil shielded twisted pairs, cabled together, overall braid-shielded and jacketed.

Design & Materials

Conductor Material	Annealed Tinned Copper
Conductor Size (AWG)	23/7
Conductor Construction	Stranded
Insulation Material	Cellular PO
Insulation O.D. (mm nom)	1.48
Conductor Unit Identification	Solid Color
Color Code	Per TIA/EIA 568-B
Ind. Shield Design	Helically applied aluminum foil, 100% coverage
Conductor Unit Lay-Up	Pairs
Overall Braid Shield	Yes
Overall Braid Material	Annealed Tinned Copper
Braid Coverage (% nom)	85
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	26
Overall Drain-wire Construction	Stranded
Total Number Of Conductors	8
Outer Diameter (mm nom)	9.2
Outer Jacket Thickness (mm nom)	1.2

TELDOR
Cables & Systems Ltd.

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Outer Jacket Color	Black
Other Jacket Colors Available	Yes
Marking	Teldor Standard|Per request
Outer Jacket Material	FRZH-PU

Performance

Frequency Range (MHz)	1 - 600
Impedance (Ω)	100 +/- 5 (fitted)
Transfer Impedance Grade	Grade 1
Coupling Attenuation	Type I
Max. DC Resistance (Ω/km@20°C)	72
Max. Resistance Unbalance (%)	2
Capacitance (pF/m)	40
Capacitance Unbalance (pF/m max)	1.5
Velocity of Propagation (% nom)	78
Propagation Delay Skew (ns/100m max)	30
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance (GΩ•km)	4
Max. Installation Tensile Load (N max.)	100
Min. Bend Radius (mm)	60
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+80
UV Resistance	Yes
Oil Resistance	Yes

Standards

Flammability Rating
IEC 60332-1

Applicable Standards
IEC 61156
IEC 61156-6
IEEE 802.3af (PoE)
IEEE 802.3at (PoE+)
IEEE 802.3an 10GBASE-T 10 Gigabit Ethernet
IEEE 802.3bt (4PPoE)
ISO/IEC 11801-1
ANSI/TIA-568.2-D
RoHS 3 2015/863/EU

Electrical Properties

Freq. MHz	Attenuation dB/100m 20°C	PS NEXT Loss dB	NEXT Loss dB	RL dB	PS ANEXT dB	PS ELFEXT dB	ELFEXT dB
	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value
1	2.7	105.0	108.0	22.0	68.0	95.0	98.0
4	5.1	98.0	101.0	25.0	68.0	90.0	93.0
10	8.0	95.0	98.0	28.0	68.0	86.0	89.0

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20	11.4	90.0	93.0	28.0	68.0	80.0	83.0
30	14.0	85.0	88.0	27.0	68.0	76.0	79.0
100	26.0	80.0	83.0	24.0	68.0	66.0	69.0
150	32.3	78.0	81.0	22.0	65.0	63.0	66.0
200	37.6	78.0	81.0	21.0	65.0	60.0	63.0
250	42.4	75.0	78.0	20.0	62.0	58.0	61.0
300	46.7	75.0	78.0	19.0	62.0	52.0	55.0
400	54.7	70.0	73.0	19.0	62.0	49.0	52.0
500	61.8	70.0	73.0	19.0	62.0	47.0	50.0
600	68.5	70.0	73.0	19.0	62.0	45.0	48.0

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