

## Cat. 7 4x2x23/7 AWG S/FTP PU

**Part Number:** 9928460101



**Applications:** Patch cord, Drag Chain Systems, High bandwidth digital applications with low BER, Indoor use, portable installations, Internal patch panel wiring, High data rates, Indoor & Outdoor Use, Fixed or Portable Installation

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

**Outer Jacket Material:** PU-HFFR  
**Outer Diameter:** 10.0 mm nom.  
**Weight:** 105 kg/km



## Design & Materials

<b>Conductor Material:</b>	Annealed Tinned Copper
<b>Conductor Size:</b>	23/7 AWG
<b>Conductor Construction:</b>	Stranded
<b>Insulation Material:</b>	Cellular PO
<b>Insulation O.D.:</b>	1.48 mm nom.
<b>Conductor unit identification:</b>	Solid Color
<b>Color Code:</b>	Per TIA/EIA 568-B
<b>Ind. Shield Design:</b>	Helically applied Aluminum foil, 100% coverage
<b>Conductor unit lay-up:</b>	Pairs
<b>Drain-wire 1 Construction:</b>	Solid
<b>Overall Braid Shield:</b>	Yes
<b>Overall Braid Material:</b>	Annealed Tinned Copper
<b>Braid Coverage:</b>	85 % nom.
<b>Overall Drain-wire Material:</b>	Annealed Tinned Copper
<b>Overall Drain-wire size:</b>	26 AWG
<b>Overall Drain-wire Construction:</b>	Stranded
<b>Total number of conductors:</b>	8
<b>Outer Jacket Thickness:</b>	1.2 mm nom.
<b>Outer Jacket Color:</b>	Black
<b>Other Jacket Colors Available:</b>	Yes
<b>Marking:</b>	Per request, Teldor Standard

## Standards

<b>Applicable Standards:</b>	IEC 61156-6, ISO/IEC 11801-1, RoHS-2 2011/65/EU
<b>Flammability Rating:</b>	IEC 60332-1, UL 1581 VW-1

## 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
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

## Performance

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