

# 2x2x24/7 SF/UTP C5 + 2X12 AWG OBS PTX150 HYBRID & COMPOSITE CABLES P/N 9ELXP01101

DEFENSE

## Applications

Audio-frequency signals, Indoor and outdoor, Portable, indoor applications, Control and audio applications, Control applications



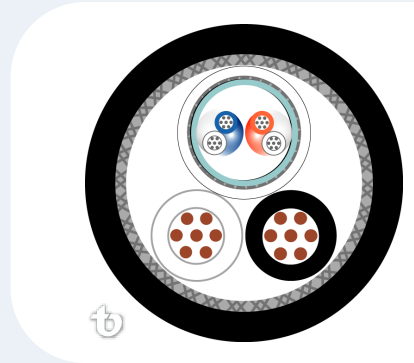
Outer Jacket Material  
PTX-150



Outer diameter  
17.4 mm nom.



Weight  
215 kg/km



## General Construction

The cable contains:

1. 2x12 AWG XLPE insulated wires for low voltage power applications
2. 2x2x24/7 AWG XLPE insulated, aluminum foil and a TC braid shielded, jacketed with PTX 150 compound. Cat. 5 Ethernet applications SF/UTP form.
3. Overall TC braid shield
4. Overall jacket made of PTX150 compound for excellent abrasion and chemical resistance.

## Design & Materials

### Detailed Construction

#### 12 AWG Pair

Conductor: Stranded bare copper, 56x0.3 mm. nom. Insulation: XLPE, OD 4.2 mm nom.  
Total Number of Wires: 2.  
Color code: Black x White.  
DC Resistance: 4.8 Ohm/Km max. @ 20°C.

#### SF/UTP data Cable

Conductor: Stranded TC copper, 7x0.2 mm, 24 AWG.  
Insulation: XLPE 1.3 mm nom.  
Total Number of Pairs: 2.  
Core Shield: Aluminum tape 100% coverage and tinned copper braid, 80% nom coverage.  
Color: Blue x Orange, Green x Brown  
Jacket Material: PTX150 compound  
Color: Natural  
OD: 6.3 mm. nom.  
DC Resistance: 96.0 Ohm/Km max. @ 20°C.  
Impedance: 100 Ohm nom.

Insulation Material	Various Materials
Overall Braid Shield	Yes
Overall Braid Material	Annealed Tinned Copper
Braid Coverage (% nom)	80
Total Number Of Conductors	2+4
Outer Diameter (mm nom)	17.4

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Outer Jacket Thickness (mm nom)	1.2
Outer Jacket Color	Black
Marking	Teldor Standard Per request
Outer Jacket Material	PTX-150

**Performance**

Frequency Range (MHz)	1 - 100
Impedance (Ω)	100
Max. Resistance Unbalance (%)	3
Velocity of Propagation (% nom)	67
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance (MΩ•km)	3000
Voltage Rating (V)	300 (power wires)
Max. Installation Tensile Load (N max.)	200
Max. Residual Tension (MRS) (N max.)	150
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+95
UV Resistance	Yes

**Standards**

Flammability Rating  
IEC 60332-1

Applicable Standards  
RoHS 3 2015/863/EU  
RoHS 3 2015/863/EU



**Electrical Properties**

Cat. 5 Screened Work Area Cables\*

Freq. MHz	Attenuation dB/100m 20°C		NEXT Loss dB		SRL dB	
	Typical Value	Cat. 5	Typical Value	Cat. 5	Typical Value	Cat. 5
1	2.9	3.0	65.3	62.3	26.0	23.0
4	5.8	6.1	56.3	53.3	26.0	23.0
10	9.3	9.7	50.3	47.3	26.0	23.0
20	13.3	13.9	45.8	42.8	26.0	23.0
30	16.5	17.2	43.1	40.1	24.2	21.2
60	23.9	24.9	38.6	35.6	21.2	18.2
100	31.6	32.9	35.3	32.3	19.0	16.0

\*Supplied cables meet the minimum Cat. 5 requirements as per ANSI/TIA/EIA 568-A



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