

(4x2x22 AWG + 2x16 AWG + 2xRG-179 B/U) OBS Control Cable HYBRID & COMPOSITE CABLES P/N 90V1003101

DEFENSE

Applications

Fixed or portable installation, Control and audio applications, Indoor



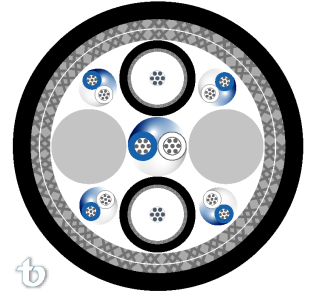
Outer Jacket Material
PTR-150



Outer diameter
13.0 mm nom.



Weight
280 kg/km



General Construction

Control and video applications cable contains:

- 4 - 22 AWG unshielded twisted pairs
- 1 - 16 AWG unshielded twisted pair
- 2 - [RG-179 75 Ohm coaxial](#)

All wires are cabled together, overall double braid shielded and jacketed with flexible PTR 150 compound with excellent abrasion and oil resistance.

Design & Materials

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Detailed Construction

1. BASIC WIRES:
 - 1.1. TELDOR P/N 6108 :
 - 1.1.1. Conductor: Stranded tinned copper, 19x0.16 mm, 22 AWG.
 - 1.1.2. Insulation: PVC, per MIL-3930 IP, -55C +105C
 - 1.1.3. O.D: 1.30 mm nom.
 - 1.1.4. Total number of Pairs: 4.
 - 1.1.5. Color Code: White x Blue.
 - 1.1.6. DC Resistance: 53.1 Ohm/Km max. @ 20C.
 - 1.1.7. Voltage Rating: 600 V.
 - 1.2. TELDOR P/N 6113 :
 - 1.2.1. Conductor: Stranded tinned copper, 19x0.28 mm, 16 AWG.
 - 1.2.2. Insulation: PVC, per MIL-3930 IP, -55C +105C
 - 1.2.3. O.D: 2.0 mm nom.
 - 1.2.4. Total number of Pairs: 1.
 - 1.2.5. Color Code: White x Blue.
 - 1.2.6. DC Resistance: 15.8 Ohm/Km max. @ 20C.
 - 1.2.7. Voltage Rating: 600 V.
 - 1.3. COAXIAL CABLE RG 179 B/U:
 - 1.3.1. Inner Conductor:
 - 1.3.1.1. Material: Silver Coated Copper Covered Steel
 - 1.3.1.2. Construction: 7x0.10 mm, 30 AWG.
 - 1.3.2. Dielectric:
 - 1.3.2.1. Material: PTFE (Teflon).
 - 1.3.2.2. OD: 1.6 mm nom.
 - 1.3.3. Outer Conductor:
 - 1.3.3.1. Construction: Braid.
 - 1.3.3.2. Material: Silver Coated Copper 0.102 mm nom.
 - 1.3.3.3. Coverage: 92.3% nom.
 - 1.3.4. Jacket:
 - 1.3.4.1. Material: FEP (Teflon).
 - 1.3.4.2. Color: Transparent .
 - 1.3.4.3. OD: 2.54 mm nom.
2. Cable Arrangement: All pairs and coaxials are cabled together and wrapped with a polyester tape.
3. Inner Shield:
 - 3.1. Construction: Braid.
 - 3.2. Material: Tin Coated Copper 0.160 mm nom.
 - 3.3. Coverage: 95% nom.
4. Outer Shield:
 - 4.1. Construction: Braid.
 - 4.2. Material: Tin Coated Copper 0.160 mm nom.
 - 4.3. Coverage: 95% nom.

Binder	Polyester
Outer Diameter (mm nom)	13.0
Outer Jacket Color	Black
Marking	Per request

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Outer Jacket Material

PTR-150

Electrical Properties

RG 179 Coaxial:

1. Impedance: 73 ±3 Ohm
2. Attenuation: 42 dB/100 m max. @ 200 MHz
52 dB/100 m max. @ 400 MHz
3. Dielectric Strength: 4500 V/1 min.
4. Capacitance: 64 pF/m nom.
5. Velocity of Propagation: 70% nom.

Performance

Dielectric Strength (V/minute)	1500
Dielectric Strength to Shield (V/minute)	1000
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+105
UV Resistance	Yes

Standards

Flammability Rating
IEC 60331
UL 1581 VW-1



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