

# 11 Conductors ETFE Overall Double Braid Shielded Cable

## HYBRID & COMPOSITE CABLES

### P/N 90COM11101

DEFENSE

### Applications

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



Outer Jacket Material  
STR-150



Outer diameter  
12.0 mm nom.



Weight  
250 kg/km



### General Construction

The cable contains:

- 1 - 2x20 AWG ETFE insulated, overall TC braid shielded twisted pair
- 2 - 2x22 AWG ETFE insulated, overall TC braid shielded twisted pairs
- 1 - 2x22 AWG ETFE insulated, single wire
- 2 - 2x24 AWG ETFE insulated, overall TC braid shielded twisted pairs

All wires are cabled together with filling elements, double copper braid shielded and jacketed with a STR 150 with excellent abrasion and chemical resistance.

### Design & Materials

#### Detailed Construction

**BASIC WIRES:**  
 20 AWG Wires  
 Conductor: Stranded TC copper, 19x0.20mm.  
 Insulation: ETFE 1.40 mm nom., per MIL-W 22759.  
 Total Number of Pairs: 1.  
 Color: Blue x Red.  
 Pair Shield: TC braid, 95% coverage min.  
 DC Resistance: 32.4 Ohm/Km max. @ 20°C.

22 AWG wires  
 Conductor: Stranded TC copper, 19x0.16 mm.  
 Insulation: ETFE 1.1 mm nom., per MIL-W 22759.  
 Total Number of Pairs: 2.  
 Color: Black x Red, Black x White.  
 Pairs Shield: TC braid, 95% coverage min.  
 Total Number of Single Wires: 1.  
 Color: Green.  
 DC Resistance: 53.1 Ohm/Km max. @ 20°C.

24 AWG Wires  
 Conductor: Stranded TC copper, 19x0.12mm.  
 Insulation: ETFE 0.94mm nom., per MIL-W 22759.  
 Total Number of Pairs: 2.  
 Color: Black x Red, Black x White.  
 Pair Shield: TC braid, 95% coverage min.  
 DC Resistance: 86.0 Ohm/Km max. @ 20°C.

Overall Shield Design	Double Braid
Overall Shield Material	Tinned-copper braid
Overall Braid Shield	Yes

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### DEFENSE

Braid Coverage (% nom)	85
Total Number Of Conductors	11
Outer Jacket Thickness (mm nom)	1.2
Outer Jacket Color	Black
Marking	Per request

### Performance

Dielectric Strength (V/minute)	1000
Dielectric Strength to Shield (V/minute)	500
Voltage Rating (V)	600
Min. Bend Radius (mm)	75
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+150
UV Resistance	Yes

### Standards

Flammability Rating  
IEC 60332-1  
UL 1581 VW-1

Applicable Standards  
RoHS 3 2015/863/EU



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