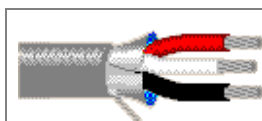


**8770 Multi-Conductor - Audio, Control and Instrumentation Cable**



For more Information  
 please call

1-800-Belden1



**Description**

18 AWG stranded (16x30) tinned copper conductors, conductors cabled, polyethylene insulation, overall Beldfoil® shield (100% coverage), 20 AWG stranded tinned copper drain wire, PVC jacket.

**Physical Characteristics (Overall):**

**Conductor:**

AWG

# Conductors	AWG	Stranding	Conductor Material
3	18	16x30	TC - Tinned Copper

**Insulation:**

Insulation Material

Ins Material	Wall Thickness (in.)
PE - Polyethylene	0.018

**Outer Shield:**

Outer Shield Material

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100

Outer Shield Drain Wire AWG

AWG	Stranding	Drain Wire Conductor Material
20	Stranded	TC - Tinned Copper

**Outer Jacket:**

Outer Jacket Material

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.033

**Overall Cabling:**

Overall Cabling Lay Length & Direction

Length (in.)	Twists/ft.
1.500	8

Overall Cabling Color Code Chart

Number	Color
1	Black
2	Red
3	Clear

Overall Nominal Diameter: .246 in.

**Mechanical Characteristics (Overall):**

Operating Temperature Range	-20°C To +60°C
UL Temperature Rating	60°C (UL AWM Style 2093)
Bulk Cable Weight:	36.200 lbs/1000 ft.
Max. Recommended Pulling Tension:	74 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

**Applicable Specifications and Agency Compliance (Overall):**

**8770 Multi-Conductor - Audio, Control and Instrumentation Cable**

**Applicable Standards:**

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2093 (300 V 60°C)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	01/01/2004

**Flame Test:**

UL Flame Test	UL1685 UL Loading
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**Plenum/Non-Plenum:**

Plenum (Y/N)	N
Plenum Number	88770

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
69.000

Nom. Inductance

Inductance (μH/ft)
0.184

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
24.000

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
48.000

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
6.600

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
8.500

Max. Operating Voltage - UL

Voltage
300 V RMS (UL AWM Style 2093)

Max. Recommended Current

Current
5.3 Amps per conductor @ 25°C

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8770 0601000	1,000 FT	39.000 LB	CHROME	C	3 #18 LDPE FS PVC CHR
8770 06010000	10,000 FT	420.000 LB	CHROME	C Y	3 #18 LDPE FS PVC CHR
8770 060500	500 FT	20.000 LB	CHROME	C	3 #18 LDPE FS PVC CHR
8770 060U1000	1,000 FT	37.000 LB	CHROME		3 #18 LDPE FS PVC CHR
8770 060U500	500 FT	19.000 LB	CHROME		3 #18 LDPE FS PVC CHR

**Notes:**

1. CRATE REEL PUT UP

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**8770 Multi-Conductor - Audio, Control and Instrumentation Cable**

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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