

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:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	.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	.033

Overall Cable

Overall Cabling Lay Length & Direction:

Length (in.)	Twists (ft.)
1.5	8

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	Clear

Overall Nominal Diameter: 0.246 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)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2093 (300 V 60°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

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

Plenum (Y/N):	No
Plenum Number:	88770

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

69

Nom. Inductance:

Inductance (µH/ft)

.1844

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

24

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

48

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.6

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

8.5

Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2093)

Max. Recommended Current:

Current

5.3 Amps per conductor @ 25°C

Related Documents:

No related documents are available for this product

Put Ups and Colors:

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

Notes:

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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