# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



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



For more Information please call

1-800-Belden1



#### **General 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				
Total Number of Conductors:	3			
Insulation				
Insulation Material:				
Insulation Material Wall Thickness (in.) PE - Polyethylene   .018				
Outer Shield				
Outer Shield Material:				
Outer Shield Trade Name Type Outer Shield Material  Beldfoil® (w/ shorting fold)   Tape   Aluminum Foil-Polyester Tape w/Sh	Coverage (%) norting Fold   100.000			
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.) Direction Twists (twist/ft) 2.700   Left Hand   4.400				
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 lbs/1000 ft.			
Max. Recommended Pulling Tension:	74 lbs.			
Min. Bend Radius/Minor Axis:	2.500 in.			
Applicable Specifications and Agency Compliance (Overall)				
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	СМ			
NEC Articles:	800			
CEC/C(UL) Specification:	CM			
AWM Specification:	UL Style 2093 (300 V 60°C)			
FU Directive 2011/65/FU (ROHS II):	Yes			

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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
CSA Flame Test:	FT1
Suitability	
Suitability - Indoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	88770
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#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Description Current 10C temperature rise 5.3 Amps per conductor @ 25°C ambient

#### **Put Ups and Colors:**

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	С	3 #18 LDPE FS PVC
8770 06010000	10,000 FT	420.000 LB	CHROME	CY	3 #18 LDPE FS PVC
8770 06010001	10,000 FT	420.000 LB	CHROME	CZ	3 #18 LDPE SH PVC
8770 06012000	12,000 FT	492.000 LB	CHROME	CY	3 #18 LDPE SH PVC
8770 060500	500 FT	20.000 LB	CHROME	С	3 #18 LDPE FS PVC
8770 0605000	5,000 FT	190.000 LB	CHROME		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'.
Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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

Revision Number: 3 Revision Date: 08-02-2013

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