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-Polyest	
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 Compl	iance (Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CM
NEC Articles:	800
CEC/C(UL) Specification:	СМ
AWM Specification:	UL Style 2093 (300 V 60°C)
EU Directive 2011/65/EU (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		

Electrical Characteristics (Overall)

Electrical Characteristics (Overall)				
Nom. Characteristic Impedance:				
Impedance (Ohm)				
69				
Nom. Inductance:				
Inductance (µH/ft)				
0.180				
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				
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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