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			

Page 1 of 3 08-26-2016

Detailed Specifications & Technical Data





8770 Multi-Conductor - Audio, Control and Instrumentation Cable

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)

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.

Page 2 of 3

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8770 Multi-Conductor - Audio, Control and Instrumentation Cable

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

© 2016 Belden, Inc All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product

product. ´ Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

Page 3 of 3