

## 88770 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

18 AWG stranded (19x30) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® shield (100% coverage), 20 AWG stranded TC drain wire, FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	18	19x30	TC - Tinned Copper

Total Number of Conductors: 3

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.007

#### 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	19x32	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.014

#### Overall Cable

Overall Cabling Lay Length & Direction:

Length (in.)	Direction	Twists (twist/ft)
1.750	Left Hand	6.900

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red

Overall Nominal Diameter: 0.155 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 28 lbs/1000 ft.

Max. Recommended Pulling Tension: 74 lbs.

Min. Bend Radius/Minor Axis: 1.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

NEC Articles: 800

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

## 88770 Multi-Conductor - Audio, Control and Instrumentation Cable

EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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:	NFPA 262
CSA Flame Test:	FT6

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	8770

## Electrical Characteristics (Overall)

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
54

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
96

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.4

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
7.3

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Max. Recommended Current:

Description	Current
35C temperature rise	8 Amps per conductor @ 25°C ambient

## Notes (Overall)

Notes: Chemical Resistance: Gasoline, Oil.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
88770 0021000	1,000 FT	30.000 LB	RED	C Z	3 #18 FEP FS FEP
88770 002500	500 FT	15.500 LB	RED	C Z	3 #18 FEP FS FEP
88770 0025000	5,000 FT	145.000 LB	RED	C Z	3 #18 FEP FS FEP

### Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 4 Revision Date: 08-02-2013

© 2017 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, and the identification of materials listed as reportable or restricted within the 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 designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. 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



## 88770 Multi-Conductor - Audio, Control and Instrumentation Cable

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