

Part Number: 8770

Audio/Control/Instrumentation, (3) 18 AWG 16x30 TC,  
PE/PVC, Foil Shld, CM

## Product Description

Three 18 AWG stranded (16x30) tinned copper conductors, conductors cabled, polyethylene insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	3
Total Number of Conductors:			3

#### Insulation:

Material	Nominal Wall Thickness
PE - Polyethylene	0.018 in

#### Color Chart 1:

Number	Color
1	Black
2	Red
3	Clear

#### Cabling 1:

Lay Length	Lay Direction	Twists
2.7 in	Left Hand	4.4 twist/ft

#### Outershield 1:

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	Beldfoil® with shorting fold	100 %	TC - Tinned Copper	20	Stranded mm

### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.246 in	0.033 in

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
6.6 Ohm/1000ft	8.5 Ohm/1000ft

### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
24 pF/ft	48 pF/ft

### Impedance:

Nominal Characteristic Impedance
69 Ohm

### Current:

Element	Max. Recommended Current [A]
10C temperature rise	5.3 Amps per conductor @ 25°C ambient

### Inductance:

Nominal Inductance
0.18 µH/ft

### Voltage:

UL Voltage Rating
300 V RMS

## Use

Suitability - Indoor:	Yes
Max Recommended Pulling Tension:	74 lbs

## Safety

CSA Flammability:	FT1
-------------------	-----

UL Flammability:	UL1685 UL Loading
------------------	-------------------

## Temperature Range

Operating Temp Range:	-20°C To +60°C
-----------------------	----------------

UL Temp Rating:	60°C (UL AWM Style 2093)
-----------------	--------------------------

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.5 in
-----------------------------	--------

## Part Number

Plenum (Y/N):	No
---------------	----

Plenum Number:	88770
----------------	-------

## Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
-----------------------------------	----------------------------------

CEC/C(UL) Specification:	CEC/C(UL) Specification
--------------------------	-------------------------

MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
-----------------------------	----------------------------

NEC Articles:	NEC Articles
---------------	--------------

NEC/(UL) Specification:	NEC/(UL) Specification
-------------------------	------------------------

UL AWM Style:	AWM Specification
---------------	-------------------

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
--------------------------	-------------------------------

EU CE Mark:	EU CE Mark
-------------	------------

## History

## Product Variants

Part Number	Color	Put-Up Type	Length
8770 06010000	CHROME	Reel	10000 ft
8770 06010001	CHROME	Reel	10000 ft
8770 0601000	CHROME	Reel	1000 ft
8770 06012000	CHROME	Reel	12000 ft
8770 0605000	CHROME	Reel	5000 ft
8770 060500	CHROME	Reel	500 ft
8770 060U1000	CHROME	UnReel	1000 ft
8770 060U500	CHROME	UnReel	500 ft
8770.00U152	CHROME	UnReel	152 ft
8770.00U305	CHROME	UnReel	305 ft
8770.01152	CHROME	Reel	152 ft
8770.01153	CHROME	Reel	153 ft
8770.01305	CHROME	Reel	305 ft

© 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, 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 product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.