



**Product:** [8770](#) 

Electronic, 3 C #18 Str TC, PE Ins, OS, PVC Jkt, CM

 [Request Sample](#)

## Product Description

Electronic, 3 Conductor 18AWG (16x30) Tinned Copper, PE Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, CM

## Technical Specifications

### Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); line level audio; voice communications; panel wiring
------------------------	---

### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	18 AWG	16x30	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PE - Polyethylene	0.018 in (0.46 mm)	0.082 in (2.1 mm)	Black, Red, Clear

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.033 in (0.84 mm)	0.246 in (6.25 mm)

Overall Cable Diameter (Nominal):	0.246 in (6.25 mm)
-----------------------------------	--------------------

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Inductance	Max. Current
Conductor(s)	7.06 Ohm/1000ft	24 pF/ft (79 pF/m)	48 pF/ft (160 pF/m)	69 Ohm	0.18 µH/ft (0.59 µH/m)	14 Amps per Conductor at 30°C

Nom Outer Shield DCR@Cond DCR1-cnrv:	8.08 Ohm/1000ft (26.5 Ohm/km)
--------------------------------------	-------------------------------

#### Voltage

UL Voltage Rating
300 V (CM), 300 V (UL AWM 2093)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

#### Bend Radius

Stationary Min.	Installation Min.
-----------------	-------------------

0.16 in (4.1 mm)	2.5 in (64 mm)
Max. Pull Tension:	75 lbs (34 kg)
Bulk Cable Weight:	36 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL loading , IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2093
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
Plenum Number:	88770

History

Update and Revision:	Revision Number: 0.532 Revision Date: 09-07-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
8770.023048	Black	Reel	3,048 m	8719605019226	
8770.00U152	Chrome	UnReel	152 m	8719605019172	
8770.01152	Chrome	Reel	152 m	8719605019196	
8770.00U305	Chrome	UnReel	305 m	8719605019189	
8770.01305	Chrome	Reel	305 m	8719605019219	
8770 060500	Chrome	Reel	500 ft	612825215653	C
8770 060U500	Chrome	UnReel	500 ft	612825215592	
8770 0601000	Chrome	Reel	1,000 ft	612825215608	C
8770 060U1000	Chrome	UnReel	1,000 ft	612825215585	
8770.013048	Chrome	Reel	3,048 m	8719605019202	
8770 0605000	Chrome	Reel	5,000 ft	612825215660	
8770 06010000	Chrome	Reel	10,000 ft	612825215615	C Y
8770 06012000	Chrome	Reel	12,000 ft	612825215646	C Y
Footnote:	C - CRATE REEL PUT-UP., Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.				

© 2025 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.