



**Part Number:** 83662

Audio/Control/Instrumentation, (12) 18 AWG (19x30)  
TC, FEP/FEP, Foil+TC Braid Shld, CMP

---

## Product Description

Twelve 18 AWG stranded (19x30) tinned copper conductors, plenum, Teflon® (FEP) insulation, overall Beldfoil® shield (100% coverage) plus tinned copper braid shield (85% coverage), Teflon® (FEP) jacket.

---

## Product Specifications

---

## Technical Specifications

### Construction and Dimensions

---

#### Conductor:

AWG	Stranding	Material	No. of Conductors
18	19x30	TC - Tinned Copper	12
Total Number of Conductors:			12

#### Insulation:

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.007 in

#### Color Chart 1:

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black
10	Orange/Black
11	Blue/Black
12	Black/White

#### Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		85 %

#### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.296 in	0.015 in

## Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
5.8 Ohm/1000ft	2.4 Ohm/1000ft

#### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
33 pF/ft	60 pF/ft

#### Current:

Max. Recommended Current [A]
3.8 Amps per conductor @ 25°C

#### Inductance:

Nominal Inductance
0.14 µH/ft

#### Voltage:

UL Voltage Rating
300 V RMS

## Use

Max Recommended Pulling Tension:	288 lbs
----------------------------------	---------

## Safety

CSA Flammability:	FT6
UL Flammability:	NFPA 262

## Temperature Range

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

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	3 in
-----------------------------	------

## Part Number

Plenum (Y/N):	Yes
---------------	-----

## 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/(UL) Specification:	NEC/(UL) 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
83662 0021000	RED	Reel	1000 ft
83662 002100	RED	Reel	100 ft
83662 002500	RED	Reel	500 ft

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.