

For more Information  
please call

1-800-Belden1



## General Description:

20 AWG stranded (7x28) tinned copper conductors, FEP insulation, overall Beldfoil® (100% coverage) plus a tinned copper braid shield (76% coverage), FEP jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	7x28	TC - Tinned Copper	0.9652

Total Number of Conductors: 2

### Insulation

#### Insulation Material:

Insulation Material
FEP - Fluorinated Ethylene Propylene

### Outer Shield

#### Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	76

#### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
20	7x28	TC - Tinned Copper

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### Overall Cable

Overall Nominal Diameter: 5.156 mm

### Pair

#### Pair Color Code Chart:

Number	Color
1	Clear & Blue

## Mechanical Characteristics (Overall)

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

UL Temperature Rating: 200°C

Bulk Cable Weight: 53.575 Kg/Km

Max. Recommended Pulling Tension: 213.514 N

Min. Bend Radius/Minor Axis: 63.500 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP, CL2P
CEC/C(UL) Specification:	CMP FT6
EU Directive 2011/65/EU (ROHS II):	Yes
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):	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
Customer Part Number Reference Specification:	Allen Bradley P/N 1770-CD

### Flame Test

UL Flame Test:	NFPA 262
----------------	----------

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9463

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

78

#### Nom. Inductance:

Inductance (µH/m)

0.39372

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

64.6357

#### Nominal Velocity of Propagation:

VP (%)

69

#### Nominal Delay:

Delay (ns/m)

4.82307

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

31.1695

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

13.4521

#### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1	1.9686
10	6.8901
50	16.405
100	24.6075
200	36.091
400	52.496

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

Other Electrical Characteristic 1:

DC Resistance Unbalanced: .77 Ohms/1000 ft Max

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89463 0061000	1,000 FT	36.000 LB	BLUE, LIGHT	C	2 #20 FEP FS BRD FEP
89463 0062500	2,500 FT	90.000 LB	BLUE, LIGHT	C	2 #20 FEP FS BRD FEP

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 05-14-2007

© 2019 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 2014/35/EU).