



Product Description

One 20 AWG pair stranded (7x28) tinned copper conductors, polyethylene insulation, overall Beldfoil® (100% coverage) plus tinned copper braid shield (55% coverage), oil- and UV-resistant PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Condu	Conductor			
AWG	Stranding	Material	Nominal Diameter	No. of Pairs
20	7x28	TC - Tinned Copper	0.038 in	1
Condu	Conductor Count:		2	
AWG	AWG Size:		20	

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.078 in

Color Chart

Number	Color
1	Clear & Blue

Outer Shield Material

Туре	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Таре	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28H mm
Braid	2	TC - Tinned Copper		55 %			

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.238 in

Construction and Dimensions

Stranding

TwistsDiameter2.75 twist/ft0.154 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/1000ft	4.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
19.7 pF/ft	36 pF/ft

Inductance

Nominal Inductance
0.12 µH/ft

Impedance

Nominal	Characteristic Impedance
78 Ohm	

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100m
10 MHz	2.1 dB/100m
50 MHz	5 dB/100m
100 MHz	7.5 dB/100m
200 MHz	11 dB/100m
400 MHz	16 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

Voltage

UL Voltage Rating
300V RMS (UL AWM Style 2464)
300 (NEC Type CM) V RMS
300V RMS (NEC Type CL2)

Electrical Characteristics Notes:

DC Resistance Unbalanced: .77 Ohms/1000 ft Max

Temperature Range

Installation Temp Range:	-40°C To +80°C
UL Temp Rating:	80°C (UL AWM Style 2464)
Storage Temp Range:	-40°C To +80°C
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	36 lbs/1000ft
Max Recommended Pulling Tension:	48 lbs
Min Bend Radius/Minor Axis:	2.4 in

Standards

Customer Part Number Reference Spec:	Allen Bradley P/N 1770-CD
NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	СМ
UL AWM Style:	UL Style 2464 (300 V 80°C)
CPR Euroclass:	Eca
PMSHA Specification:	P-7K-SC-182141

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Suitability	

Suitability - Sunlight Resistance:

Flammability, LS0H, Toxicity Testing

Yes

UL Flammability:

UL1685 UL Loading

89463

Part Number

Plenum Number:	

ltem #	Color	Footno	te
63.001829	BLUE		
63.00305	BLUE		
63.00U152	BLUE		
63.00U305	BLUE		
63.01152	BLUE		
63 J22100	BLUE, STRONG		
63 J221000	BLUE, STRONG	С	
63 J2212000	BLUE, STRONG	СҮ	
63 J22500	BLUE, STRONG		
63 J226000	BLUE, STRONG	CZ	
63 J22U1000	BLUE, STRONG		
63 J22U500	BLUE, STRONG		
63.02305	BROWN		
63 0011000	BROWN		
63 00110000	BROWN	CZ	
63 00112000	BROWN	СҮ	
63 0016000	BROWN	CZ	
63.031829	ORANGE		
63.03305	ORANGE		
63 0031000	ORANGE	С	
63 00310000	ORANGE	СZ	
63 00312000	ORANGE	СҮ	
63 0036000	ORANGE	СZ	
63.041829	VIOLET		
63.04305	VIOLET		
63 0071000	VIOLET	С	
63 0076000	VIOLET	СZ	
ootnote:			С

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

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Footnote:

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