Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9877 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information please call

1-800-Belden1



General Description:

20 AWG stranded (7x28) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG stranded TC drain wire, overall PVC jacket.

Physical Characteristics (Overall) Conductor AWG: # Pairs AWG Stranding Conductor Material TC - Tinned Copper 20 7x28 **Total Number of Conductors:** 24 Insulation Insulation Material: Insulation Material Wall Thickness (mm) PP - Polypropylene | 0.381 **Inner Shield** Inner Shield Material: Inner Shield Trade Name Type Inner Shield Material Coverage (%) Beldfoil® (Z-Fold®) Tape | Aluminum Foil-Polyester Tape | 100 Inner Shield Drain Wire AWG: AWG 22 19x34 Inner Shield Drain Wire Stranding: Inner Shield Drain Wire Conductor Material: TC - Tinned Copper **Outer Jacket** Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride | 1.270

Overall Cable

Overall Nominal Diameter: 15.672 mm

Pair

Pair Color Code Chart:

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

lechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	290.199 Kg/Km
Max. Recommended Pulling Tension:	1957.208 N
Min. Bend Radius/Minor Axis:	158.750 mm

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NEC//III \ Specification:	lards & Environmental Programs CM CM					
NEC/(UL) Specification:	CIVI					
CEC/C(UL) Specification:	CM					
AWM Specification:	UL Style 2919 (30 V 80°C)					
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):	01/01/2004	01/01/2004				
EU Directive 2002/96/EC (WEEE):	Yes					
EU Directive 2003/11/EC (BFR):	Yes					
CA Prop 65 (CJ for Wire & Cable):	Yes	Yes				
MII Order #39 (China RoHS):	Yes					
ne Test						
UL Flame Test:	UL1685 UL Loading	UL1685 UL Loading				
num/Non-Plenum						
Plenum (Y/N):	No					

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 180.455

Nominal Velocity of Propagation:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 34.4505

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 37.075 Ohm/km

Max. Operating Voltage - UL:

Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM

Max. Recommended Current:

Current 2.0 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9877 060100	100 FT	21.500 LB	CHROME	С	12 #20 FS PR PP PVC
9877 0601000	1,000 FT	211.000 LB	CHROME	С	12 #20 FS PR PP PVC
9877 060500	500 FT	106.500 LB	CHROME	C	12 #20 FS PR PP PVC

Notes: C = CRATE REEL PUT-UP.

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Revision Number: 2 Revision Date: 09-07-2012

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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.

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