Detailed Specifications & Technical Data



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:				
# PairsAWGStrandingConductorMaterial12207x28TC - Tinned Copper				
Total Number of Conductors:	24			
Insulation Insulation Material:				
Insulation Material Wall Thickness (in.) PP - Polypropylene 0.015				
Inner Shield Inner Shield Material:				
	erage (%)			
Beldfoil® (Z-Fold®) Tape Aluminum Foil-Polyester Tape 100				
Inner Shield Drain Wire AWG:				
AWG 22				
Inner Shield Drain Wire Stranding:	19x34			
Inner Shield Drain Wire Conductor Material:	TC - Tinned Copper			
Outer Jacket Outer Jacket Material:				
Outer Jacket Material Nom. Wall Thickness (in.)				
PVC - Polyvinyl Chloride 0.050				
Overall Cable				
Overall Nominal Diameter:	0.617 in.			
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				
Mechanical Characteristics (Overall)				
Operating Temperature Range:	-20°C To +80°C			
UL Temperature Rating:	80°C (UL AWM Style 2919)			
Bulk Cable Weight:	195 lbs/1000 ft.			

Min. Bend Radius/Minor Axis:

Max. Recommended Pulling Tension:

440 lbs.

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ENGLISH MEASUREMENT VERSION

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Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CM
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
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
Flame Test	
UL Flame Test:	UL1685 UL Loading
Plenum/Non-Plenum	
Plenum (Y/N):	No
Electrical Characteristics (Overall) Nom. Characteristic Impedance:	
Inductance (µH/ft) 0.18 Nom. Capacitance Conductor to Conductor: Capacitance (pF/ft) 30 Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/ft) 55 Nominal Velocity of Propagation: VP (%) 66	
Nom. Conductor DC Resistance:	
DCR @ 20°C (Ohm/1000 ft) 10.5	
10.5 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:	11.300 Ohm/1000 ft
DCR @ 20°C (Ohm/1000 ft) 10.5 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM	11.300 Ohm/1000 ft
DCR @ 20°C (Ohm/1000 ft) 10.5 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM Max. Recommended Current: Current	11.300 Ohm/1000 ft

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	С	12 #20 FS PR PP PVC

Notes: C = CRATE REEL PUT-UP.

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