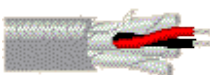


## 9877 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information  
please call

1-800-Belden1

**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
12	20	7x28	TC - Tinned Copper

**Insulation****Insulation Material:**

Insulation Material
PP - Polypropylene

**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

Inner Shield Drain Wire Stranding: 19x34

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**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

**Pair Lay Length & Direction:**

## 9877 Multi-Conductor - Audio, Control and Instrumentation Cable

Lay Length (in.)	Twists/ft. (twist/ft)
1.750	6.850

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	196.340 lbs/1000 ft.
Max. Recommended Pulling Tension:	440 lbs.
Min. Bend Radius (Install)/Minor Axis:	6 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2919 (30 V 80°C)
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
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
50

**Nom. Inductance:**

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

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:	11.300 Ohm/1000 ft
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## 9877 Multi-Conductor - Audio, Control and Instrumentation Cable

**Max. Operating Voltage - UL:****Voltage**

30 V RMS (UL AWM Style 2919)

300 V RMS (CM)

**Max. Recommended Current:****Current**

2.0 Amps per conductor @ 25°C

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

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