

# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

## 9875 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
9	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 Cabling

Overall Nominal Diameter: 14.097 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

Pair Lay Length & Direction:

Lay Length (mm)	Twists/ft. (twist/m)
44.449825	22.475

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### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	233.960 Kg/Km
Max. Recommended Pulling Tension:	1423.420 N
Min. Bend Radius (Install)/Minor Axis:	139.700 mm

### 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/m)
0.59058

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
98.43

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
180.455

#### Nominal Velocity of Propagation:

VP (%)
66

#### 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:

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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
9875 060100	30 MT	8.029 KG	CHROME	C	9 FS PR #20 PP PVC
9875 0601000	305 MT	74.843 KG	CHROME	C	9 FS PR #20 PP PVC
9875 060500	152 MT	39.690 KG	CHROME	C	9 FS PR #20 PP PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 04-17-2008

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