

## 9883 Multi-Conductor - Audio, Control, and Instrumentation Cable

For more Information  
please call

1-800-Belden1



### Description:

20 AWG stranded (10x30) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG stranded TC drain wire, high-density polyethylene jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
3	20	10x30	TC - Tinned Copper

Total Number of Conductors: 6

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.330

#### Inner Shield

##### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Inner Shield Drain Wire AWG:

AWG
22

Inner Shield Drain Wire Stranding: 16x34

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
HDPE - High Density Polyethylene	1.016

#### Overall Cable

Overall Nominal Diameter: 8.636 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Bulk Cable Weight: 74.410 Kg/Km

Max. Recommended Pulling Tension: 346.960 N

Min. Bend Radius/Minor Axis: 88.900 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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

### Suitability

Suitability - Burial: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

50

### Nom. Inductance:

Inductance (µH/m)

0.6562

### 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)

35.4348

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 36.747 Ohm/km

### Max. Operating Voltage - UL:

Voltage

350 V RMS

### Max. Operating Voltage - Non-UL:

Voltage

350 V RMS

### Max. Recommended Current:

Current

2.7 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9883 0101000	305 MT	25.855 KG	BLACK	C	3 SH PR #20 PP HDPE

## METRIC MEASUREMENT VERSION

### 9883 Multi-Conductor - Audio, Control, and Instrumentation Cable

9883 010500	152 MT	12.927 KG	BLACK		3 SH PR #20 PP HDPE
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**Notes:**

C = CRATE REEL PUT-UP.

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