

## 83559 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG stranded (7x30) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
9	22	7x30	TC - Tinned Copper

Total Number of Conductors: 9

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

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.178

**Outer Shield****Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

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

Outer Jacket Material	Nom. Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.3556

**Overall Cable****Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black

Overall Nominal Diameter: 5.309 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 68.457 Kg/Km

Max. Recommended Pulling Tension: 386.993 N

Min. Bend Radius/Minor Axis: 57.150 mm

## 83559 Multi-Conductor - Audio, Control and Instrumentation Cable

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	04/01/2005
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:	NFPA 262
CSA Flame Test:	FT6

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

75.463

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

Capacitance (pF/m)

131.24

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

50.8555

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

12.1397

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Max. Recommended Current:

Current

1.9 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** Plenum Cables, except for Flamarrest® jacket, are suitable for Outdoor and Direct Burial application.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83559 002100	100 FT	6.800 LB	RED		9#22 FEP SH FEP
83559 0021000	1,000 FT	50.000 LB	RED	C	9#22 FEP SH FEP
83559 002500	500 FT	25.000 LB	RED	C	9#22 FEP SH FEP

## Notes:

C = CRATE REEL PUT-UP.

## 83559 Multi-Conductor - Audio, Control and Instrumentation Cable

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