# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 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.

9

## **Physical Characteristics (Overall)**

### Conductor

#### AWG:

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

**Total Number of Conductors:** 

#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	0.007

#### **Outer Shield**

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

La	yer#	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 (in.)
FEP - Fluorinated Ethylene Propylene	.014

## **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: 0.209 in.

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C
Bulk Cable Weight:	46 lbs/1000 ft.
Max. Recommended Pulling Tension:	87 lbs.
Min. Bend Radius/Minor Axis:	2.250 in.

Page 1 of 3 08-21-2013

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## **Applicable Specifications and Agency Compliance (Overall)**

# Applicable Standards & Environmental Programs

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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	
me Test		
UL Flame Test:	NFPA 262	

# Flai

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

#### Plenum/Non-Plenum

Plenum (Y/N): Yes

## **Electrical Characteristics (Overall)**

Nom. Capacitance Conductor to Conductor:

Capacitance	(pF/ft)
23	

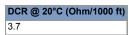
Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance	(pF/ft)
40	

Nom. Conductor DC Resistance:

DCR @ 20°C	(Ohm/1000 ft)
15.5	

**Nominal Outer Shield DC Resistance:** 



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	С	9#22 FEP SH FEP
83559 002500	500 FT	25.000 LB	RED	С	9#22 FEP SH FEP

C = CRATE REEL PUT-UP.

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

Revision Number: 2 Revision Date: 08-21-2012

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