

83509 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information
please call

1-800-Belden1

**Description:**

24 AWG stranded (7x32) TC conductors, conductors cabled, plenum, FEP insulated, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

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

# Conductors	AWG	Stranding	Conductor Material
9	24	7x32	TC - Tinned Copper

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.006

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 (in.)
FEP - Fluorinated Ethylene Propylene	.014

Overall Cable**Overall Cabling Lay Length & Direction:**

Length (in.)
2.0

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: 0.188 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 39 lbs/1000 ft.

Max. Recommended Pulling Tension: 55 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
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CEC/C(UL) Specification:	CMP
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EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Flame Test

UL Flame Test:	NFPA 262
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C(UL) Flame Test:	FT4, FT6
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Plenum/Non-Plenum

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

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

20

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

36

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

1.4 Amps per conductor @ 25°C

Notes (Overall)

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

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83509 002100	100 FT	5.300 LB	RED	C	9 #24 FEP SHLD FEP
83509 0021000	1,000 FT	38.000 LB	RED	C	9 #24 FEP SHLD FEP
83509 002500	500 FT	17.000 LB	RED	C	9 #24 FEP SHLD FEP

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Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-18-2008

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