Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



83709 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information please call

1-800-Belden1



General Description:

16 AWG stranded (19x29) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage) FEP jacket.

9

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material		
9	16	19x29	TC - Tinned Copper		

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	.007

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)	
Teflon®	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:

0.307 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
Bulk Cable Weight:	115 lbs/1000 ft.
Max. Recommended Pulling Tension:	273 lbs.
Min. Bend Radius/Minor Axis:	3.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & 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

Page 1 of 2 08-26-2016

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	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
Flai	ne Test	
	CSA Flame Test:	FT6
Ple	Plenum/Non-Plenum	
	Plenum (Y/N):	Yes

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft) 63

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 4.43

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

300 V RMS

Max. Recommended Current:

4.5 Amps per conductor @ 25°C

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83709 0021000	1,000 FT	120.000 LB	RED	С	9#16 FEP SH FEP
83709 002500	500 FT	61.000 LB	RED	С	9#16 FEP SH FEP

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-04-2012

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product.
Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

Page 2 of 2