

89418 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information
please call

1-800-Belden1



General Description:

18 AWG stranded (19x30) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® shield (100% coverage), 20 AWG stranded TC drain wire, FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	18	19x30	TC - Tinned Copper

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.1778

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
20	19x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Cabling Lay Length & Direction:

Length (mm)	Direction	Twists (twist/m)
50.800	Left Hand	19.686

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green

Overall Nominal Diameter: 4.394 mm

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 52.087 Kg/Km

Max. Recommended Pulling Tension: 507.095 N

Min. Bend Radius/Minor Axis: 44.450 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
NEC Articles:	800
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

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9418

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m)	0.49215
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Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)	98.43
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Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)	187.017
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Nominal Velocity of Propagation:

VP (%)	69
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Nominal Delay:

Delay (ns/m)	0.482307
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Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)	20.9984
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Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)	25.9199
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METRIC MEASUREMENT VERSION

89418 Multi-Conductor - Audio, Control and Instrumentation Cable

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Description	Current
10C Temperature Rise	4.3 Amps per conductor @ 25°C ambient

Notes (Overall)

Notes: Chemical Resistance: Gasoline, Oil

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89418 002100	100 FT	5.400 LB	RED	C	4#18 FEP FS FEP
89418 0021000	1,000 FT	37.000 LB	RED	C	4#18 FEP FS FEP
89418 002500	500 FT	19.500 LB	RED	C	4#18 FEP FS FEP
89418 0025000	5,000 FT	185.000 LB	RED	C Z	4#18 FEP FS FEP

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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