# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



#### 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 19x30 TC - Tinned Copper 18 **Total Number of Conductors:** 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 (%) 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 Black White Red 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

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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

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 98.43

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 187.017

Nominal Velocity of Propagation:

**VP (%)** 

Nominal Delay:

**Delay (ns/m)** 0.482307

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 20.9984

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 25.9199

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

10C Temperature Rise 4.3 Amps per conductor @ 25°C ambient	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	С	4#18 FEP FS FEP
89418 0021000	1,000 FT	37.000 LB	RED	С	4#18 FEP FS FEP
89418 002500	500 FT	19.500 LB	RED	С	4#18 FEP FS FEP
89418 0025000	5,000 FT	185.000 LB	RED	CZ	4#18 FEP FS FEP

#### Notes

C = CRATE REEL PUT-UP.

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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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Revision Number: 4 Revision Date: 08-06-2013

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