

## 9418 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**General Description:**

18 AWG stranded (19x30) tinned copper conductors, conductors cabled, semi-rigid PVC insulation, overall Beldfoil® shield (100% coverage), 20 AWG stranded tinned copper drain wire, PVC 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)
S-R PVC - Semi-Rigid Polyvinyl Chloride	0.2794

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

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

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
20	Stranded	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

**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	Red
2	Green
3	Black
4	White

Overall Nominal Diameter: 6.223 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	62.504 Kg/Km
Max. Recommended Pulling Tension:	444.820 N

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Min. Bend Radius/Minor Axis: 63.500 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC(UL) Specification:	CMG
NEC Articles:	800
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°C)
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:	UL1685 FT4 Loading
CSA Flame Test:	FT4

**Suitability**

Suitability - Indoor:	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
Plenum Number:	89418 or 82418

**Electrical Characteristics (Overall)****Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)
131.240

**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/m)
236.232

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
21.3265

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
27.8885

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Max. Recommended Current:**

Description	Current
10C Temperature rise	5 Amps per conductor @ 25°C ambient

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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## 9418 Multi-Conductor - Audio, Control and Instrumentation Cable

9418 060U1000	305 MT	19.958 KG	CHROME		4 #18 PVC FS FRPVC
9418 060U500	152 MT	10.206 KG	CHROME		4 #18 PVC FS FRPVC
9418 060100	30 MT	2.268 KG	CHROME		4 #18 PVC FS FRPVC
9418 0601000	305 MT	20.412 KG	CHROME	C	4 #18 PVC FS FRPVC
9418 06010000	3,048 MT	222.261 KG	CHROME	C Y	4 #18 PVC FS FRPVC
9418 06010001	3,048 MT	222.261 KG	CHROME	C Y	4 #18 PVC FS FRPVC
9418 06013000	3,962 MT	277.146 KG	CHROME	C Y	4 #18 PVC FS FRPVC
9418 060500	152 MT	10.433 KG	CHROME	C	4 #18 PVC FS FRPVC
9418 0605000	1,524 MT	99.791 KG	CHROME	C Z	4 #18 PVC FS FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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

Revision Number: 4      Revision Date: 08-02-2013

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