

## 8412 Multi-Conductor - Two-Conductor, Low-Impedance Cable



For more Information  
please call

1-800-Belden1



### General Description:

20 AWG stranded (26x34) high-conductivity TC conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, EPDM jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	20	26x34	High Conductivity TC - Tinned Copper	0.9398

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
EPDM - Ethylene Propylene Diene Monomer Rubber	0.584

#### Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	Cotton	
2	Braid	TC - Tinned Copper	85

Outer Shield Separator Material: Cotton Wrap

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
EPDM - Ethylene Propylene Diene Monomer Rubber

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black

Overall Cabling Separator Material: Rayon Braid

Overall Nominal Diameter: 6.655 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -50°C To +90°C

Non-UL Temperature Rating: 90°C

Bulk Cable Weight: 65.481 Kg/Km

Max. Recommended Pulling Tension: 444.820 N

Min. Bend Radius/Minor Axis: 69.850 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

## METRIC MEASUREMENT VERSION

### 8412 Multi-Conductor - Two-Conductor, Low-Impedance Cable

Mil Order #39 (China RoHS): Yes

#### Plenum/Non-Plenum

Plenum (Y/N): No

#### Electrical Characteristics (Overall)

##### Nom. Characteristic Impedance:

**Impedance (Ohm)**  
67.000

##### Nom. Inductance:

**Inductance (µH/m)**  
0.59058

##### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/m)**  
108.273

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

**Capacitance (pF/m)**  
190.298

##### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)**  
34.779

##### Nominal Outer Shield DC Resistance:

**DCR @ 20°C (Ohm/km)**  
14.765

##### Max. Operating Voltage - Non-UL:

**Voltage**  
600 V RMS

##### Max. Recommended Current:

**Current**  
4 Amps per conductor @ 25°C

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8412 0021000	1,000 FT	47.000 LB	RED	C	2 #20 EPDM BRD EPDM
8412 0041000	1,000 FT	47.000 LB	YELLOW	C	2 #20 EPDM BRD EPDM
8412 0061000	1,000 FT	47.000 LB	BLUE, LIGHT	C	2 #20 EPDM BRD EPDM
8412 010U1000	1,000 FT	46.000 LB	BLACK		2 #20 EPDM SHLD EPDM
8412 010U500	500 FT	23.500 LB	BLACK		2 #20 EPDM SHLD EPDM
8412 010100	100 FT	5.200 LB	BLACK		2 #20 EPDM BRD EPDM
8412 0101000	1,000 FT	47.000 LB	BLACK	C	2 #20 EPDM BRD EPDM
8412 010250	250 FT	12.000 LB	BLACK		2 #20 EPDM BRD EPDM
8412 010500	500 FT	24.000 LB	BLACK	C	2 #20 EPDM BRD EPDM

**Notes:**  
C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 07-29-2013

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