

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. (in.) |
|--------------|-----|-----------|--------------------------------------|------------|
| 2 | 20 | 26x34 | High Conductivity TC - Tinned Copper | .037 |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|--|----------------------|
| EPDM - Ethylene Propylene Diene Monomer Rubber | 0.023 |

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: 0.262 in.

Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 90°C

Bulk Cable Weight: 44 lbs/1000 ft.

Max. Recommended Pulling Tension: 100 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

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

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/ft)

.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

33.000

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

58.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.600

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.500

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

© 2017 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

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