

## 8428 Multi-Conductor - Two-Conductor, Low-Impedance Cable

For more Information  
please call

1-800-Belden1



### Description:

18 AWG stranded (41x34) High-conductivity TC conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, CPE jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	18	41x34	High Conductivity TC - Tinned Copper	.047

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
EPDM - Ethylene Propylene Diene Monomer Rubber	.023	.100

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	85

Outer Shield Separator Material: Cotton Wrap

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
CPE	0.030

#### Overall Cable

##### Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black

Overall Cabling Separator Material: Rayon Braid

Overall Nominal Diameter: 0.290 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +60°C

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 54 lbs/1000 ft.

Max. Recommended Pulling Tension: 138 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.900 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

50

**Nom. Inductance:**

Inductance (µH/ft)

.19

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

35

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

Capacitance (pF/ft)

60

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

6.8

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

2.7

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

Voltage

600 V RMS

**Max. Recommended Current:**

Current

5.2 Amps per conductor @ 25°C

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8428 010U500	500 FT	28.500 LB	BLACK		2 #18 EPDM BRD CPE
8428 010100	100 FT	6.200 LB	BLACK		2 #18 EPDM BRD CPE
8428 0101000	1,000 FT	58.000 LB	BLACK	C	2 #18 EPDM BRD CPE
8428 010500	500 FT	27.000 LB	BLACK	C	2 #18 EPDM BRD CPE

**Notes:**

C = CRATE REEL PUT-UP.

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