

## 8422 Multi-Conductor - Two-Conductor, Low-Impedance Cable

For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (16x34) high-conductivity tinned copper conductors, polyethylene insulation, cotton braid, double tinned copper braid shield (85% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	22	16x34	High Conductivity TC - Tinned Copper	.031

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PE - Polyethylene	.021	.072

#### Outer Shield

Outer Shield Material:

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

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.022

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Clear
2	Black

Overall Cabling Separator Material: Cotton Braid

Overall Nominal Diameter: 0.231 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 93 lbs.

Min. Bend Radius/Minor Axis: 2.300 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

MIL Order #39 (China RoHS): Yes

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**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**  
90

**Nom. Inductance:**

**Inductance (µH/ft)**  
.22

**Nom. Capacitance Conductor to Conductor:**

**Capacitance (pF/ft)**  
18

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

**Capacitance (pF/ft)**  
32

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
15.9

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
3.5

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

**Voltage**  
1000 V RMS

**Max. Recommended Current:**

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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8422 060U1000	1,000 FT	31.000 LB	CHROME		2 #22 PE CBRD BRD PVC
8422 0601000	1,000 FT	33.000 LB	CHROME	C	2 #22 PE CBRD BRD PVC
8422 060500	500 FT	16.500 LB	CHROME	C	2 #22 PE CBRD BRD PVC

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

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