

## 8413 Multi-Conductor - Two-Conductor, Low-Impedance Cable

For more Information  
please call

1-800-Belden1



### Description:

24 AWG stranded (45x40) TC alloy conductors, EPDM rubber insulation, conductive textile wrap (100% coverage), TC braid shield (56% coverage), cotton spiral, EPDM jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	24	45x40	Tinned Copper Alloy	.024

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
EPDM - Ethylene Propylene Diene Monomer Rubber	.016	.065

#### Outer Shield

##### Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Conductive Textile	100
2	Braid	TC - Tinned Copper	56
3	Spiral Serve	Cotton	

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
EPDM - Ethylene Propylene Diene Monomer Rubber	.017

#### Overall Cabling

##### Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black

Overall Nominal Diameter: 0.199 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +90°C

Non-UL Temperature Rating: 90°C

Bulk Cable Weight: 20.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 48 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU CE Mark: Yes

EU Directive 2002/95/EC (RoHS): No

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

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55

**Nom. Inductance:**

Inductance (μH/ft)  
0.19

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)  
30

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

Capacitance (pF/ft)  
55

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
28.7

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
11.38

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

Voltage  
300 V RMS

**Max. Recommended Current:**

Current  
2.2 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8413 010U500	500 FT	14.000 LB	BLACK		2 #24 EPDM SHLD EPDM
8413 010100	100 FT	3.200 LB	BLACK		2#24 EPDM SHLD EPDM
8413 010500	500 FT	13.500 LB	BLACK		2 #24 EPDM SH EPDM

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