

## 9452 Multi-Conductor - Two-Conductor, Low-Impedance Cable



For more Information  
please call

1-800-Belden1



### General Description:

24 AWG stranded (19x36) HC TC conductors, high-density polyethylene insulation, twisted pair, noise reducing tape, Beldfoil® shield (100% coverage), 24 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material                   | Dia. (in.) |
|--------------|-----|-----------|--------------------------------------|------------|
| 2            | 24  | 19x36     | High Conductivity TC - Tinned Copper | .024       |

Total Number of Conductors: 2

#### Insulation

Insulation Material:

| Insulation Material              | Wall Thickness (in.) | Dia. (in.) |
|----------------------------------|----------------------|------------|
| HDPE - High Density Polyethylene | .008                 | .040       |

#### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|---------|-------------------------|------|------------------------------|--------------|
| 1       |                         | Tape | Noise Reducing               | 100          |
| 2       | Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | Stranded  | TC - Tinned Copper            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cable

Overall Cabling Color Code Chart:

| Color |
|-------|
| Black |
| Red   |

Overall Nominal Diameter: 0.135 in.

### Mechanical Characteristics (Overall)

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -40°C To +75°C  |
| Non-UL Temperature Rating:        | 75°C            |
| Bulk Cable Weight:                | 11 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 17.700 lbs.     |
| Min. Bend Radius/Minor Axis:      | 1.500 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        |

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

MII Order #39 (China RoHS): Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

56

#### Nom. Inductance:

Inductance (µH/ft)

.18

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

30

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

Capacitance (pF/ft)

58

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

25

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

16.5

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

Voltage

200 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         |
|---------------|----------|-------------|-------|-------|-------------------|
| 9452 010U1000 | 1,000 FT | 12.000 LB   | BLACK |       | 2 #24 PE SHLD PVC |
| 9452 010U500  | 500 FT   | 6.500 LB    | BLACK |       | 2 #24 PE SHLD PVC |
| 9452 010I1000 | 1,000 FT | 12.000 LB   | BLACK |       | 2 #24 PE SHLD PVC |
| 9452 010I500  | 500 FT   | 6.000 LB    | BLACK |       | 2 #24 PE SHLD PVC |

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