

## 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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