

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. (mm)
2	24	19x36	High Conductivity TC - Tinned Copper	0.6096

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)	Dia. (mm)
HDPE - High Density Polyethylene	0.2032	1.016

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: 3.429 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 16.370 Kg/Km

Max. Recommended Pulling Tension: 78.733 N

Min. Bend Radius/Minor Axis: 38.100 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

METRIC MEASUREMENT VERSION

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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
MII Order #39 (China RoHS):	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

56

Nom. Inductance:

Inductance (µH/m)

0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

98.43

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

190.298

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

82.025

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

54.1365

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 0101000	1,000 FT	12.000 LB	BLACK		2 #24 PE SHLD PVC
9452 010500	500 FT	6.000 LB	BLACK		2 #24 PE SHLD PVC

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METRIC MEASUREMENT VERSION

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