

## 9451D Multi-Conductor - Double-Pair Cable

For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, polyolefin insulation, dual twisted pairs, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket in zip-cord construction.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
2	22	7x30	TC - Tinned Copper

Total Number of Conductors: 4

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PO - Polyolefin	.008

#### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	7x30	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.020

#### Overall Cable

Overall Nominal Diameter: 0.135 x 0.270 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & Red

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	27 lbs/1000 ft.
Max. Recommended Pulling Tension:	54 lbs.
Min. Bend Radius/Minor Axis:	1.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/(UL) Specification:	CMR
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
MII Order #39 (China RoHS):	Yes

**Flame Test**

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

**Plenum/Non-Plenum**

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

**Nom. Characteristic Impedance:**

Impedance (Ohm)
45

**Nom. Inductance:**

Inductance (µH/ft)
.16

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)
34

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

Capacitance (pF/ft)
67

**Nominal Velocity of Propagation:**

VP (%)
66

**Nominal Delay:**

Delay (ns/ft)
1.5

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
14.1

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
14.3

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Max. Recommended Current:**

Current
2.9 Amps per conductor @ 25°C

**Notes (Overall)**

**Notes:** The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield. For cross-connect use with 1814R (et. al.) Snake Cables.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9451D A5QU1000	1,000 FT	29.000 LB	RED & GREEN		2 BONDED #22 FSPR PO FRPVC
9451D A5Q2000	2,000 FT	58.000 LB	RED & GREEN		2 BONDED #22 FSPR PO FRPVC
9451D G04U1000	1,000 FT	29.000 LB	RED & PURPLE		2 BONDED #22 FSPR PO FRPVC
9451D J77U1000	1,000 FT	29.000 LB	USE 061		2 BONDED #22 FSPR PO FRPVC
9451D 053U1000	1,000 FT	29.000 LB	RED & GRAY		2 BONDED #22 FSPR PO FRPVC

Revision Number: 1    Revision Date: 08-22-2012

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