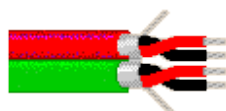


## 9451D Multi-Conductor - Double-Pair Cable



For more Information  
please call

1-800-Belden1



### 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

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PO - Polyolefin	0.2032

#### 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 (mm)
PVC - Polyvinyl Chloride	0.508

#### Overall Cabling

Overall Nominal Diameter: 3.429 x 6.858 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & Red

Pair Lay Length & Direction:

Lay Length (mm)	Twists/ft. (twist/m)
44.449825	22.508

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	40.479 Kg/Km
Max. Recommended Pulling Tension:	240.203 N
Min. Bend Radius (Install)/Minor Axis:	35.560 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR
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/m)  
0.52496

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)  
111.554

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

Capacitance (pF/m)  
219.827

### Nominal Velocity of Propagation:

VP (%)  
66

### Nominal Delay:

Delay (ns/m)  
4.9215

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
46.2621

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
46.9183

### Max. Operating Voltage - UL:

Voltage  
300 V RMS

### Max. Recommended Current:

Current

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

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	305 MT	13.154 KG	RED & GREEN		2 BONDED #22 FSPR PVC PVC FR
9451D A5Q2000	610 MT	28.123 KG	RED & GREEN		2 BONDED #22 FSPR PVC PVC FR
9451D G04U1000	305 MT	13.154 KG	RED & PURPLE		2 BONDED #22 FSPR PVC PVC FR
9451D J77U1000	305 MT	13.154 KG	RED & BLACK		2 BONDED #22 FSPR PVC PVC FR
9451D 053U1000	305 MT	13.154 KG	RED & GRAY		2 BONDED #22 FSPR PVC PVC FR

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