

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/C(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

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| | |
|-----------------------------------|-----|
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MIL Order #39 (China RoHS): | Yes |

Flame Test

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

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

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 |

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А