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please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, polypropylene insulation, twisted pair, overall Beldfoil shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	22	7x30	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	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 Cable

Overall Nominal Diameter: 3.429 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & Red

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 20.835 Kg/Km

Max. Recommended Pulling Tension: 120.101 N

Min. Bend Radius/Minor Axis: 38.100 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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
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
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

45

#### Nom. Inductance:

Inductance (µH/m)

0.55777

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

114.835

#### 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

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
9451 N3UU1000	305 MT	7.258 KG	GREEN, MIL		2 #22 PP FS PVC FR
9451 N3U5000	1,524 MT	31.752 KG	GREEN, MIL	C N	2 #22 PP FS PVC FR
9451 001U1000	305 MT	7.258 KG	BROWN		2 #22 PP FS PVC FR
9451 0015000	1,524 MT	31.752 KG	BROWN	C N	2 #22 PP FS PVC FR
9451 002U1000	305 MT	7.258 KG	RED		2 #22 PP FS PVC FR
9451 0025000	1,524 MT	34.020 KG	RED	C N	2 #22 PP FS PVC FR
9451 003U1000	305 MT	7.258 KG	ORANGE		2 #22 PP FS PVC FR
9451 0035000	1,524 MT	34.020 KG	ORANGE	C N	2 #22 PP FS PVC FR
9451 004U1000	305 MT	7.258 KG	YELLOW		2 #22 PP FS PVC FR
9451 0045000	1,524 MT	34.020 KG	YELLOW	C N	2 #22 PP FS PVC FR
9451 006U1000	305 MT	7.258 KG	BLUE, LIGHT		2 #22 PP FS PVC FR
9451 0065000	1,524 MT	34.020 KG	BLUE, LIGHT	C N	2 #22 PP FS PVC FR
9451 007U1000	305 MT	7.258 KG	VIOLET		2 #22 PP FS PVC FR
9451 0075000	1,524 MT	34.020 KG	VIOLET	C N	2 #22 PP FS PVC FR

## METRIC MEASUREMENT VERSION

### 9451 Multi-Conductor - Single-Pair Cables

9451 008T1000	305 MT	7.258 KG	GRAY		2 #22 PP FS PVC FR
9451 008U1000	305 MT	7.258 KG	GRAY		2 #22 PP FS PVC FR
9451 008U500	152 MT	3.856 KG	GRAY		2 #22 PP FS PVC FR
9451 008500	152 MT	3.629 KG	GRAY		2 #22 PP FS PVC FR
9451 0085000	1,524 MT	34.020 KG	GRAY	C N	2 #22 PP FS PVC FR
9451 009U1000	305 MT	7.258 KG	WHITE		2 #22 PP FS PVC FR
9451 0095000	1,524 MT	34.020 KG	WHITE	C N	2 #22 PP FS PVC FR
9451 010U1000	305 MT	7.258 KG	BLACK		2 #22 PP FS PVC FR
9451 0101000	305 MT	7.258 KG	BLACK		2 #22 PP FS PVC FR
9451 0105000	1,524 MT	34.020 KG	BLACK	C N	2 #22 PP FS PVC FR

**Notes:**

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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