

9451 Multi-Conductor - Single-Pair Cables



For more Information
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/(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

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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

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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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