

## 1503A Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, PVC insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 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 (in.)
PVC - Polyvinyl Chloride	.010

#### 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
24	7x32	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 0.142 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & Red

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +90°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 14 lbs/1000 ft.

Max. Recommended Pulling Tension: 25 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: 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): 04/01/2005

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 Riser
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### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

**Impedance (Ohm)**  
38

### Nom. Inductance:

**Inductance (µH/ft)**  
.18

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/ft)**  
53

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

**Capacitance (pF/ft)**  
97

### Nominal Velocity of Propagation:

**VP (%)**  
66

### Nominal Delay:

**Delay (ns/ft)**  
1.5

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**  
14.7

### Nominal Outer Shield DC Resistance:

**DCR @ 20°C (Ohm/1000 ft)**  
18

### Max. Operating Voltage - UL:

**Voltage**  
300 V RMS

### Max. Recommended Current:

**Current**  
2.9 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1503A N3UU1000	1,000 FT	16.000 LB	GREEN, MIL		2 #22 PVC FS FRPVC
1503A 001U1000	1,000 FT	16.000 LB	BROWN		2 #22 PVC FS FRPVC
1503A 002U1000	1,000 FT	16.000 LB	RED		2 #22 PVC FS FRPVC
1503A 003U1000	1,000 FT	16.000 LB	ORANGE		2 #22 PVC FS FRPVC
1503A 004U1000	1,000 FT	16.000 LB	YELLOW		2 #22 PVC FS FRPVC
1503A 006U1000	1,000 FT	16.000 LB	BLUE, LIGHT		2 #22 PVC FS FRPVC
1503A 007U1000	1,000 FT	16.000 LB	VIOLET		2 #22 PVC FS FRPVC
1503A 008U1000	1,000 FT	16.000 LB	GRAY		2 #22 PVC FS FRPVC
1503A 009U1000	1,000 FT	16.000 LB	WHITE		2 #22 PVC FS FRPVC
1503A 010U1000	1,000 FT	16.000 LB	BLACK		2 #22 PVC FS FRPVC

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