

## 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 (mm)
PVC - Polyvinyl Chloride	0.254

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

#### Overall Cable

Overall Nominal Diameter: 3.607 mm

#### 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: 20.835 Kg/Km

Max. Recommended Pulling Tension: 111.205 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): 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

MII Order #39 (China RoHS): Yes

### Flame Test

UL Flame Test: UL1666 Riser

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

38

### Nom. Inductance:

Inductance (µH/m)

0.59058

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

173.893

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

Capacitance (pF/m)

318.257

### Nominal Velocity of Propagation:

VP (%)

66

### Nominal Delay:

Delay (ns/m)

4.9215

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

48.2307

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

59.058

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

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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