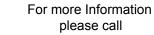
# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



# 1503A Multi-Conductor - Single-Pair Cable



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	<b>Conductor Material</b>
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) S	pecification:	CMR
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# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



# 1503A Multi-Conductor - Single-Pair Cable

	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
Fla	ime Test	
	UL Flame Test:	UL1666 Riser
Ple	enum/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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# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



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

1503A N3UU1000	305 MT	7.258 KG	GREEN, MIL	2 #22 PVC FS FRPVC
1503A 001U1000	305 MT	7.258 KG	BROWN	2 #22 PVC FS FRPVC
1503A 002U1000	305 MT	7.258 KG	RED	2 #22 PVC FS FRPVC
1503A 003U1000	305 MT	7.258 KG	ORANGE	2 #22 PVC FS FRPVC
1503A 004U1000	305 MT	7.258 KG	YELLOW	2 #22 PVC FS FRPVC
1503A 006U1000	305 MT	7.258 KG	BLUE, LIGHT	2 #22 PVC FS FRPVC
1503A 007U1000	305 MT	7.258 KG	VIOLET	2 #22 PVC FS FRPVC
1503A 008U1000	305 MT	7.258 KG	GRAY	2 #22 PVC FS FRPVC
1503A 009U1000	305 MT	7.258 KG	WHITE	2 #22 PVC FS FRPVC
1503A 010U1000	305 MT	7.258 KG	BLACK	2 #22 PVC FS FRPVC

Revision Number: 1 Revision Date: 08-13-2012

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