Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

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

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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