

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



1502R Multi-Conductor - Multimedia Control Cable



For more Information
please call

1-800-Belden1



General Description:

22 AWG stranded (7x30) TC conductors, FPE insulation (data), STP (Data) w/Beldfoil®, TC drain wire, 18 AWG (16x30) TC conductors, unshielded (power) pair, F-R PVC insulation (power), F-R PVC Jacket (Available in Black, White, or Aqua)

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
2	1	22	7x30	TC - Tinned Copper
	1	18	16x30	TC - Tinned Copper

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)	AWG
Datalene®	HDFPE - High Density Foam Polyethylene	0.635	22
	F-R PVC - Flame Retardant Polyvinyl Chloride	0.3302	18

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)	Stranding	Dia. (mm)	Conductor Material
22 AWG Pair	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100			

Inner Shield Drain Wire AWG:

AWG	Stranding	Conductor Material
24 AWG	7x32	TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
F-R PVC - Flame Retardant Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 6.350 mm

Pair

Pair Color Code Chart:

Number	Color
1	Blue & White
2	Red & Black

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	59.528 Kg/Km
Max. Recommended Pulling Tension:	266.002 N
Min. Bend Radius/Minor Axis:	63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC(UL) Specification: CMR

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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 Vertical Shaft
CSA Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1502P

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Description	Impedance (Ohm)
22 AWG Pair	100

Nom. Inductance:

Description	Inductance (μH/m)
22 AWG	0.761192
18 AWG	0.551208

Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/m)
22 AWG Pair	45.934
18 AWG Pair	95.149

Nom. Capacitance Cond. to Other Conductor & Shield:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/m)
22 AWG Pair				124.678

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
22 AWG	53.4803
18 AWG	22.6389

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
3.8 Amps per conductor @ 25°C (22 AWG); 7.2 Amps per conductor @ 25°C (18 AWG)

Notes (Overall)

Notes: Sequential footage marking every two feet.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1502R G751000	1,000 FT	44.000 LB	AQUA	C	2 #18 PVC +2 FS #22 FHDPEFRPVC
1502R G75500	500 FT	22.000 LB	AQUA	C	2 #18 PVC +2 FS #22 FHDPEFRPVC
1502R 0091000	1,000 FT	44.000 LB	WHITE	C	2 #18 PVC +2 FS #22 FHDPEFRPVC
1502R 009500	500 FT	22.000 LB	WHITE	C	2 #18 PVC +2 FS #22 FHDPEFRPVC
1502R 0101000	1,000 FT	44.000 LB	BLACK	C	2 #18 PVC +2 FS #22 FHDPEFRPVC
1502R 01010000	10,000 FT	470.000 LB	BLACK		2 #18 PVC +2 FS #22 FHDPEFRPVC
1502R 010500	500 FT	22.000 LB	BLACK	C	2 #18 PVC +2 FS #22 FHDPEFRPVC
1502R 0105000	5,000 FT	215.000 LB	BLACK		2 #18 PVC +2 FS #22 FHDPEFRPVC

Notes:

C = CRATE REEL PUT-UP.

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Revision Number: 1 Revision Date: 07-30-2013

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