

1502R Multi-Conductor - Multimedia Control Cable

**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

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (in.)	AWG
Datalene®	HDFPE - High Density Foam Polyethylene	.025	22
	F-R PVC - Flame Retardant Polyvinyl Chloride	.013	18

Inner Shield**Inner Shield Material:**

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

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield**Outer Shield Material:**

Outer Shield Material
Unshielded

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
F-R PVC - Flame Retardant Polyvinyl Chloride	.039

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.250 in.

Pair**Pair Color Code Chart:**

Number	Color
1	Blue & White
2	Red & Black

Pair Lay Length & Direction:

Lay Length (in.) Twists/ft. (twist/ft)
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2.000	6.000
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Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	38.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	59.800 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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:	UL1685 FT4 Loading
C(UL) 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/ft)
22 AWG	.232
18 AWG	.168

Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/ft)
22 AWG Pair	14
18 AWG Pair	29

Nom. Capacitance Cond. to Other Conductor & Shield:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/ft)
22 AWG Pair				38

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
22 AWG	16.3
18 AWG	6.9

Max. Operating Voltage - UL:

Voltage

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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	20.000 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	20.000 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 010500	500 FT	20.000 LB	BLACK	C	2 #18 PVC +2 FS #22 FHDPEFRPVC

Notes:

C = CRATE REEL PUT-UP.

Special Application Audio, Communication and Instrumentation Cable

Multimedia Control Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) TC Conductors (Data), STP w/Beldfoil®, TC Drain Wire • **18 AWG** (16x30) TC Conductors (Power), Unshielded Pair
FPE Insulation (Data) • F-R PVC Insulation (Power) • F-R PVC Jacket (Available in Black, White or Aqua)

300V 75°C **1502R** NEC: 1 STP Pair: 500 152.4 20.0 9.1 Data: .039 .99 .250 6.35 14 46 38 125
 CMR +2/C Blue, White
 CEC: White
 CMG FT4 Cond.: .025 .64
 Red, Black
 .013 .33
 22 AWG Data Pair Impedance: 100Ω

Rip Cord

Sequential footing marking every two feet.

22 AWG (7x30) TC Conductors, STP w/Beldfoil, TC Drain Wire • **18 AWG** (16x30) TC Conductors Unshielded • Polypropylene Binder Tape
Plenum • Foam FEP Insulation (Data) • Flamarrest® Insulation (Power) • Natural Flamarrest Jacket

300V 60°C (75°C non-UL) **1502P** NEC: 1 STP Pair: 1000 304.8 31.0 14.1 Data: .015 .381 .205 5.21 14 46 38 125
 CMP +2/C Blue, White
 CEC: White
 CMP FT6 Cond.: .025 .64
 Red, Black
 .011 .28
 22 AWG Data Pair Impedance: 100Ω

Rip Cord

BC = Bare Copper • DCR = DC Resistance • EPDM = Ethylene Propylene Diene Monomer • FEP = Fluorinated Ethylene Propylene • FPE = Foam Polyethylene • F-R = Flame-retardant •
 STP = Shielded Twisted Pair • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.