



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)

1502R Multi-Conductor - Multimedia Control Cable

2.000	6.000
-------	-------

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

1502R Multi-Conductor - Multimedia Control Cable

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

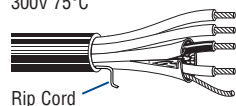


19 • Brilliance® Broadcast

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)

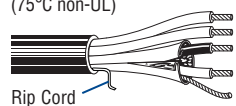
300V 75°C  Rip Cord	1502R	NEC:	1 STP	Pair:	500	152.4	20.0	9.1	Data:	.039	.99	.250	6.35	14	46	38	125	
		CMR	+2/C	Blue,	1000	304.8	44.0	20.0	.025	.64								
		CEC:		White					Power:									
		CMG FT4		Cond.:					.013	.33								

22 AWG Data Pair Impedance: 100Ω

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)  Rip Cord	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,					.025	.64								
		CEC:		White					Power:									
		CMP FT6		Cond.:					.011	.28								

22 AWG Data Pair Impedance: 100Ω

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.