Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

1502P Multi-Conductor - Multimedia Control Cable



For more Information
please call

1-800-Belden1

General Description:

22 AWG stranded (7x30) TC conductors, plenum, foam FEP insulation (data), STP w/Beldfoil®, 18 AWG (16x30) TC conductors unshielded, polypropylene binder tape, Flamarrest® insulation (power), Flamarrest® jacket.

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
	FFEP - Foam Fluorinated Ethylene Propylene	0.635	22
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.279	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
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 Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 5.207 mm

Pair

Pair Color Code Chart:

Number	Color
1	Blue & White
2	Red & Black

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	46.134 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:	CMP
CEC/C(UL) Specification:	CMP
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:	NFPA 262
CSA Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	1502R

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
1502P 010Z1000	1,000 FT	33.000 LB	BLACK		COMPOSITE CABLE PVC
1502P 010Z500	500 FT	17.000 LB	BLACK		COMPOSITE CABLE PVC
1502P 0101000	1,000 FT	33.000 LB	BLACK	C	COMPOSITE CABLE PVC
1502P 877Z1000	1,000 FT	33.000 LB	NATURAL		COMPOSITE CABLE PVC
1502P 8771000	1,000 FT	33.000 LB	NATURAL	C	COMPOSITE CABLE PVC
1502P 87710000	10,000 FT	330.000 LB	NATURAL		COMPOSITE CABLE PVC
1502P 8775000	5,000 FT	160.000 LB	NATURAL		COMPOSITE CABLE PVC

Notes:
C = CRATE REEL PUT-UP.

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