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 0101000	305 MT	14.969 KG	BLACK	C	COMPOSITE CABLE PVC
1502P 8771000	305 MT	14.969 KG	NATURAL	C	COMPOSITE CABLE PVC
1502P 87710000	3,048 MT	149.686 KG	NATURAL		COMPOSITE CABLE PVC
1502P 8775000	1,524 MT	72.575 KG	NATURAL		COMPOSITE CABLE PVC

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 07-29-2013