Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



649948 Composite - CCTV Plus Audio or Power or PAn and Tilt CCTV Control Applications



For more Information please call

1-800-Belden1



General Description:

5.000

2.297

PTZ (CCTV+Power/Audio) Cable, Plenum-CMP, 1-RG59 20 AWG solid bare copper with foam FEP, 95% bare copper braid, 1-18 AWG stranded bare copper pair with Flamarrest® insulation, Siamese with Flamarrest® jacket

Suitable Applications:	CCTV plus Audio, Pan and Tilt CCTV Control
	CCTV plus Addio, Pari and Till CCTV Control
ах	
ysical Characteristics	
Conductor AWG:	
# Coax AWG Stranding Conductor Material Dia. (mm)	
1 20 Solid BC - Bare Copper 0.813	
Insulation Insulation Material:	
Insulation Material Dia. (mm)	
FFEP - Foam Fluorinated Ethylene Propylene 3.404	
Inner Shield Inner Shield Material:	
Type Inner Shield Material % Coverage (%)	
Braid BC - Bare Copper 95	
plicable Specifications and Agency Compliance Applicable Standards & Environmental Programs	
EU CE Mark:	Yes
RG Type:	59/U
ectrical Characteristics	
Nom. Characteristic Impedance:	
Impedance (Ohm) 75	
Nom. Inductance:	
Inductance (µH/m)	
0.318	
Nom. Capacitance Conductor to Shield:	
Canacitanas (nE/m)	
Capacitance (pF/m)	
52.824	
52.824 Nominal Velocity of Propagation: VP (%)	
52.824 Nominal Velocity of Propagation:	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay:	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay: Delay (ns/m)	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay:	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay: Delay (ns/m) 3.970 Nom. Conductor DC Resistance:	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay: Delay (ns/m) 3.970 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km)	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay: Delay (ns/m) 3.970 Nom. Conductor DC Resistance:	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay: Delay (ns/m) 3.970 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 32.810 Nom. Inner Shield DC Resistance:	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay: Delay (ns/m) 3.970 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 32.810 Nom. Inner Shield DC Resistance: DCR @ 20°C (Ohm/km)	
52.824 Nominal Velocity of Propagation: VP (%) 84.000 Nominal Delay: Delay (ns/m) 3.970 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 32.810 Nom. Inner Shield DC Resistance:	

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10.000	3.281
50.000	6.562
100.000	8.859
200.000	12.796
400.000	19.358
700.000	27.889
900.000	32.810
1000.000	35.107

Max. Operating Voltage - UL:

300 V RMS

Twisted Pair

Physical Characteristics

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	7x26	BC - Bare Copper	1.194

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Flamarrest®	LS PVC-Low Smoke Polyvinyl chloride	1.575

Twisted Pair Color Code Chart:

Number	Color
1	Black and Red

Inner Shield

Inner Shield Material:



Individual Shield

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 78.744

Physical Characteristics (Overall)

Conductor

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

Overall Cable

Overall Nominal Diameter:

4.877 x 9.728 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	65.481 Kg/Km
Max. Recommended Pulling Tension:	431.475 N
Min. Bend Radius/Minor Axis:	50.800 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 Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005

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	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
Fla	me Test	
	UL Flame Test:	NFPA 262
	C(UL) Flame Test:	FT6
Su	itability	
	Suitability - Indoor:	Yes
Ple	num/Non-Plenum	
	Plenum (Y/N):	Yes
	Non-Plenum Number:	549945

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
649948 8771000	1,000 FT	48.000 LB	NATURAL	С	RG59 + 2C18 CMP SIAM
649948 877500	500 FT	25.500 LB	NATURAL	С	RG59 + 2C18 CMP SIAM

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 01-09-2014

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product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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