

METRIC MEASUREMENT VERSION



539945 Composite - CCTV Plus Audio or Power or Pan and Tilt CCTV Control Applications

For more Information
please call

1-800-Belden1



General Description:

PTZ (CCTV+Power/Audio) Cable, Rated-CMG, 1-RG6 18 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-18 AWG stranded bare copper pair with polyolefin insulation, Siamese with PVC jacket

Usage (Overall)

Suitable Applications: CCTV plus Audio, Pan and Tilt CCTV Control

Coax

Physical Characteristics

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	Solid	BC - Bare Copper	1.016

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	4.572

Inner Shield

Inner Shield Material:

Type	Inner Shield Material	% Coverage (%)
Braid	BC - Bare Copper	95.000

Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

EU CE Mark: Yes

Electrical Characteristics

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/m)
0.318

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.480

Nominal Velocity of Propagation:

VP (%)
83.000

Nominal Delay:

Delay (ns/m)
4.003

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
20.998

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Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)
10.171

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.656
5.000	1.476
10.000	2.100
50.000	4.790
100.000	6.890
200.000	9.843
400.000	14.108
700.000	19.030
900.000	21.983
1000.000	23.295

Max. Operating Voltage - UL: 300 V RMS

Twisted Pair

Physical Characteristics

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	7	BC - Bare Copper	1.168

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PP - Polypropylene	1.499

Twisted Pair Color Code Chart:

Number	Color
1	Black and Red

Individual Shield

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
70.542

Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Overall Cable

Overall Nominal Diameter: 12.319 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 74.410 Kg/Km

Max. Recommended Pulling Tension: 507.095 N

Min. Bend Radius/Minor Axis: 69.850 mm

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
NEC Articles:	800
CEC/C(UL) Specification:	CMG
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
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
Other Specification:	NEC Article 800

Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	639948

Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

Voltage
300 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
539945 0091000	1,000 FT	53.000 LB	WHITE	C	RG6 + 2C18 CMG SIAM
539945 009500	500 FT	27.500 LB	WHITE	C	RG6 + 2C18 CMG SIAM
539945 0101000	1,000 FT	53.000 LB	BLACK	C	RG6 + 2C18 CMG SIAM
539945 010500	500 FT	27.500 LB	BLACK	C	RG6 + 2C18 CMG SIAM

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 05-14-2013

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