# **Detailed Specifications & Technical Data**

**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:**

5.000

10.000

50.000

1.476

2.100

4.790

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 iacket

jacket	
Usage (Overall)	
Suitable Applications:	CCTV plus Audio, Pan and Tilt CCTV Control
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	100
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:	
<b>Delay (ns/m)</b> 4.003	
Nom. Conductor DC Resistance:  DCR @ 20°C (Ohm/km)  20.998	
Nom. Inner Shield DC Resistance:  DCR @ 20°C (Ohm/km)  10.171	
Nom. Attenuation:  Freq. (MHz) Attenuation (dB/100m)  1.000   0.656	

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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**

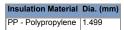
Conductor

AWG:

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

#### Insulation

Insulation Material:



Twisted Pair Color Code Chart:



#### 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	

## **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

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C(UL) Flame Test:	FT4
Suitability	
Suitability - Indoor:	Yes
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	С	RG6 + 2C18 CMG SIAM
539945 009500	500 FT	27.500 LB	WHITE	С	RG6 + 2C18 CMG SIAM
539945 0101000	1,000 FT	53.000 LB	BLACK	С	RG6 + 2C18 CMG SIAM
539945 010500	500 FT	27.500 LB	BLACK	С	RG6 + 2C18 CMG SIAM

#### Notes:

C = CRATE REEL PUT-UP.

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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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