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1-800-Belden1



### General Description:

PTZ (CCTV+Power) Cable, Rated-CM, 1-RG59 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, water resistant tape, 2-18 AWG stranded bare copper conductors with PVC insulation and water resistant tape , Overall PVC jacket

### Usage (Overall)

Suitable Applications: Siamese, Low Voltage, CCTV, Sunlight Resistant, Moisture Resistant

### Coax

#### Physical 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)
Gas-injected FHDPE - Foam High Density Polyethylene	3.683

##### Separator

Outer Jacket Separator Material: Water resistant tape over braid, under jacket

##### Inner Shield

Inner Shield Material:

Type	Inner Shield Material	% Coverage (%)
Braid	BC - Bare Copper	95

##### Overall Diameter

Overall Nominal Diameter: 6.325 mm

### 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)
32.810

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)
11.484

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.984
5.000	2.133
10.000	2.953
50.000	6.234
100.000	8.531
200.000	11.812
400.000	16.405
700.000	22.967
900.000	26.248
1000.000	27.889

Max. Operating Voltage - UL: 300 V RMS

## Twisted Pair

### Physical Characteristics

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	7x26	BC - Bare Copper	1.168

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PVC - Polyvinyl Chloride	1.676

Twisted Pair Color Code Chart:

Number	Color
1	Black and Red

#### Separator

Separator Material: Water resistant tape (over pair, under jacket)

#### Overall Diameter

Overall Nominal Diameter: 5.639 mm

### Electrical Characteristics

Max. Capacitance Conductor to Conductor:

Capacitance (pF/m)
98.430

## Physical Characteristics (Overall)

### Conductor

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 6.325 x 12.852 mm

## Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 81.851 Kg/Km

Max. Recommended Pulling Tension: 453.716 N

Min. Bend Radius/Minor Axis: 63.500 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

NEC Articles: 800

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

## METRIC MEASUREMENT VERSION

## 5499X5 Composite - Surveillance and CCTV Applications

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/22/2007
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:	UL1685 UL Loading
C(UL) Flame Test:	FT1

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5499X5 0101000	1,000 FT	66.000 LB	BLACK	C	RG59 + 2C18 WB CM SIAM

#### Notes:

C = CRATE REEL PUT-UP.

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