

## 600PTZ Composite - For PTZ Cameras: CCTV + Cntrl + Power



For more Information  
please call

1-800-Belden1



### General Description:

PTZ (CCTV+Control+Power) Cable, Plenum-CMP, 1-RG59 20 AWG solid bare copper with foam PFA, 95% bare copper braid, 1-23 AWG solid bare copper pair with FEP insulation, 2-18 AWG stranded bare copper conductors with Flamarrest® insulation, Siamese with Flamarrest® jacket

### 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)
FPFA - Foam Perfluoroalkoxy	3.378

##### Outer Shield

Outer Shield Material:

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

##### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (mm)
4.902

Outer Jacket Color Code Chart:

Number	Color
Video	Black

### Applicable Specifications and Agency Compliance

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU CE Mark: Yes

RG Type: 59/U

#### Flame Test

UL Flame Test: NFPA 262

#### Suitability

Suitability - Indoor: Yes

### Electrical Characteristics

Nom. Characteristic Impedance:

Impedance (Ohm)
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METRIC MEASUREMENT VERSION

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75

**Nom. Inductance:**

Inductance (µH/m)
0.318

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)
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

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
8.203

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.656
5.000	2.297
10.000	3.609
50.000	5.906
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	23	Solid	BC - Bare Copper	0.584

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
FEP - Fluorinated Ethylene Propylene	1.041

**Twisted Pair Color Code Chart:**

Number	Color
1	Blue and White/Blue

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

**Outer Jacket Diameter:**

Nom. Dia. (mm)
2.946

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### Outer Jacket Color Code Chart:

Number	Color
1	Blue

### Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

### Flame Test

UL Flame Test: NFPA 262

### Suitability

Suitability - Indoor: Yes

### Electrical Characteristics

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
49.215

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
65.620

#### Max. Operating Voltage - Other:

Voltage
300 V RMS

## Multi Conductor

### Physical Characteristics

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	18	7x26	BC - Bare Copper	1.194

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

##### Insulation Color Code Chart:

Number	Color
1	Red
2	Black

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

##### Outer Jacket Diameter:

Nom. Dia. (mm)
4.013

##### Outer Jacket Color Code Chart:

Number	Color
1	White

### Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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**Flame Test**

UL Flame Test:	NFPA 262
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**Suitability**

Suitability - Indoor:	Yes
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**Electrical Characteristics****Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/m)
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98.430
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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
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21.327
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**Max. Operating Voltage - Other:**

Voltage
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300 V RMS
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**Max. Recommended Current:**

Current
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5 Amps per conductor @ 25°C
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**Physical Characteristics (Overall)****Conductor****Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
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Unjacketed
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**Overall Cable**

Overall Nominal Diameter:	8.915 mm
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**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-10°C To +75°C
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Separation Temperature Range:	0°C To +75°C
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Bulk Cable Weight:	81.851 Kg/Km
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Max. Recommended Pulling Tension:	556.025 N
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Min. Bend Radius/Minor Axis:	88.900 mm
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**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

EU Directive 2011/65/EU (ROHS II):	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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**Applicable Patents:**

Country
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
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**Non-Plenum Number:** 500PTZ

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### Notes (Overall)

**Notes:** RG59 CCTV + 1 PR 23 UTP + 2C 18 AWG CMP. Individually jacketed and color coded components, cabled around and each fused to a central binding spline. Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation.

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### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
600PTZ 0001000	1,000 FT	62.000 LB	NONE	C	RG59 + 1P23 + 2C18 CMP BPEEL

**Notes:**  
C = CRATE REEL PUT-UP.

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