

## 601PTZ Composite - For PTZ Cameras: CCTV + Control + 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, 1-22 AWG stranded bare copper pair with FEP insulation and Beldfoil® shield, 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. (in.)
1	20	Solid	BC - Bare Copper	0.032

##### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPFA - Foam Perfluoroalkoxy	0.133

##### 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. (in.)
0.193

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)
75

Nom. Inductance:

Inductance (µH/ft)
0.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.100

Nominal Velocity of Propagation:

VP (%)
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84.000

Nominal Delay:

Delay (ns/ft)
1.210

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
10.000

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.500

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.290
5.000	0.700
10.000	1.100
50.000	1.800
100.000	2.700
200.000	3.900
400.000	5.900
700.000	8.500
900.000	10.000
1000.000	10.700

Max. Operating Voltage - UL:

300 V RMS

Twisted Pair

Physical Characteristics

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	7x30	BC - Bare Copper	0.030

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FEP - Fluorinated Ethylene Propylene	0.042

Twisted Pair Color Code Chart:

Number	Color
1	Blue and White/Blue

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	7x30	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

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

Outer Jacket Diameter:

Nom. Dia. (in.)
0.116

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
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Suitability

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Suitability - Indoor:

Yes

## Electrical Characteristics

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
67.000

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
35.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
15.000

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
12.000

Max. Operating Voltage - Other:

Voltage
300 V RMS

Max. Recommended Current:

Current
2.4 Amps per conductor @ 25°C

## Multi Conductor

## Physical Characteristics

## Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	18	7x26	BC - Bare Copper	0.047

## 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. (in.)
0.158

Outer Jacket Color Code Chart:

Number	Color
1	White

## Applicable Specifications and Agency Compliance

## Applicable Standards &amp; 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 Cond. to Other Conductor &amp; Shield:

Capacitance (pF/ft)
30.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.500

Max. Operating Voltage - Other:

**601PTZ Composite - For PTZ Cameras: CCTV + Control + Power****Voltage**

300 V RMS

**Max. Recommended Current:****Current**

5 Amps per conductor @ 25°C

**Physical Characteristics (Overall)****Conductor****Outer Jacket****Outer Jacket Material:****Outer Jacket Material**

Unjacketed

**Overall Cable**

Overall Nominal Diameter: 0.351 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -10°C To +75°C

Separation Temperature Range: 0°C To +75°C

Bulk Cable Weight: 55.000 lbs/1000 ft.

Max. Recommended Pulling Tension: 130.000 lbs.

Min. Bend Radius/Minor Axis: 3.500 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

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): 4/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

**Applicable Patents:****Country**

www.belden.com/p

**Plenum/Non-Plenum**

Plenum (Y/N): Yes

Non-Plenum Number: 501PTZ

**Notes (Overall)**

**Notes:** RG59 CCTV + 1 STP 22 AWG Control Grade + 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.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
601PTZ 0001000	1,000 FT	61.000 LB	NONE		RG59 +1P22 FS +2C18 CMP BPEEL
601PTZ 000500	500 FT	31.500 LB	NONE		RG59 +1P22 FS +2C18 CMP BPEEL

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