

## 601PTZ Composite - For PTZ Cameras: CCTV + Control + Power



For more Information  
please call

1-800-Belden1

**Description:**

(1) coax-20 AWG solid BC cond., gas-injected foam HDPE insul., 95% BC braid shld., cabled with (1) pair-22 AWG stranded (7x30) solid BC cond., PO insul., Beldfoil® shld., cabled with (2) cond.-18 AWG (7x26) BC cond., PVC insul., with Flamarrest® jkts.

**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)
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75

## Nom. Inductance:

Inductance (μH/ft)
0.097

## Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.100

## Nominal Velocity of Propagation:

VP (%)
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

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## 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

## Suitability

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

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2	Black
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**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 & 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 & Shield:**

Capacitance (pF/ft)
30.000

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
6.500

**Max. Operating Voltage - Other:**

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 (Install)/Minor Axis: 3.500 in.

**601PTZ Composite - For PTZ Cameras: CCTV + Control + Power****Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

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

**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. Banana Peel® US PATENT 7049523.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
601PTZ 0001000	1,000 FT	65.000 LB	NONE		1 RG59 + 1 STP 22 + 2C18
601PTZ 000500	1,000 FT	67.000 LB	NONE		1 RG59 + 1 STP 22 + 2C18

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