

## 602PTZ Composite - For PTZ Cameras: CCTV + Control + Power



For more Information  
please call

1-800-Belden1



### Description:

(1) coax-20 AWG solid BC cond., FPFA insul., 95% BC braid shield, cabled with (1) pair-18 AWG stranded (19x30) solid BC cond., FEP insul., Beldfoil® shield, cabled with (2) cond.-18 AWG (7x26) BC cond., Flamarrest® insul., Flamarrest® jackets.

### 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.)
1.930

##### Overall Cabling

Overall Cabling 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:

## 602PTZ Composite - For PTZ Cameras: CCTV + Control + Power

**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 (%)**

84.000

**Nominal Delay:****Delay (ns/ft)**

1.210

**Nom. Conductor DC Resistance:****DCR @ 20°C (Ohm/1000 ft)**

10.000

**Nominal Outer 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	18	19x30	BC - Bare Copper	0.044

**Insulation****Insulation Material:**

Insulation Material	Dia. (in.)
FEP - Fluorinated Ethylene Propylene	0.059

**Inner Jacket****Inner Jacket 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:**

## 602PTZ Composite - For PTZ Cameras: CCTV + Control + Power

AWG Stranding Drain Wire Conductor Material		
20	19x32	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.)
0.150

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)
97.000

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
51.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.500

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
7.300

Max. Operating Voltage - Other:

Voltage
300 V RMS

Max. Recommended Current:

Current
5.2 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:

## 602PTZ Composite - For PTZ Cameras: CCTV + Control + Power

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

## 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:

Voltage
300 V RMS

## Max. Recommended Current:

Current
5 Amps per conductor @ 25°C

## Physical Characteristics (Overall)

## Outer Jacket

## Outer Jacket Material:

Outer Jacket Material
Unjacketed

## Overall Cable

Overall Nominal Diameter: 0.363 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-10°C To +75°C
Separation Temperature Range:	0°C To +75°C
Bulk Cable Weight:	66.000 lbs/1000 ft.
Max. Recommended Pulling Tension:	162.000 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.600 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

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

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MII Order #39 (China RoHS):	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
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Plenum Number:	502PTZ
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**Notes (Overall)**

**Notes:** RG59 CCTV + 1 STP 18 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
602PTZ 0001000	1,000 FT	70.000 LB	NONE	C	1 RG59 + 2C18 SH + 2C18
602PTZ 000500	500 FT	36.000 LB	NONE	C	1 RG59 + 2C18 SH + 2C18

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

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