

## 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. (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

##### 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:

METRIC MEASUREMENT VERSION

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### Impedance (Ohm)

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	0.951
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	18	19x30	BC - Bare Copper	1.118

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (mm)
FEP - Fluorinated Ethylene Propylene	1.499

#### 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:

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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. (mm)
3.810

#### Outer Jacket Color Code Chart:

Number	Color
1	Blue

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

NEC/(UL) Specification: CMP

CEC/(UL) Specification: CMP

### Flame Test

UL Flame Test: NFPA 262

### Suitability

Suitability - Indoor: Yes

### Electrical Characteristics

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
318.257

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
167.331

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
18.046

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
23.951

#### 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. (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:

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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

### Electrical Characteristics

**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/m)
98.430

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
21.327

**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: 9.220 mm

### Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 98.221 Kg/Km

Max. Recommended Pulling Tension: 720.608 N

Min. Bend Radius/Minor Axis: 91.440 mm

### 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): 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

METRIC MEASUREMENT VERSION

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MII Order #39 (China RoHS): Yes

### Plenum/Non-Plenum

Plenum (Y/N): Yes

Plenum Number: 502PTZ

### 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.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
602PTZ 0001000	305 MT	31.752 KG	NONE	C	1 RG59 + 2C18 SH + 2C18
602PTZ 000500	152 MT	16.329 KG	NONE	C	1 RG59 + 2C18 SH + 2C18

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

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