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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, 1-18 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. (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:

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:**

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/C(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:

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
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### 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

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

### 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 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): 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

MII Order #39 (China RoHS): Yes

#### Applicable Patents:

Country
www.belden.com/p

#### 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.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
602PTZ 0001000	1,000 FT	70.000 LB	NONE	C	RG59 +2C18 FS +2C18 CMP BPEEL
602PTZ 000500	500 FT	36.000 LB	NONE	C	RG59 +2C18 FS +2C18 CMP BPEEL

#### Notes:

C = CRATE REEL PUT-UP.

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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