

## 503PTZ 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 shield, PVC jkt., cabled with (1) pair-18 AWG stranded (19x30) BC cond., PO insul., Beldfoil® shield, PVC jkt., cabled with (2) cond.-14 AWG (19x27) BC cond.,PVC insul., PVC jkt.

### 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.)
Gas-injected FHDP - Foam High Density Polyethylene	0.145

##### Outer Shield

###### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95.000

##### Outer Jacket

###### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

###### Outer Jacket Diameter:

Nom. Dia. (in.)
0.227

###### Outer Jacket Color Code Chart:

Number	Color
Video	Black

#### Applicable Specifications and Agency Compliance

##### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: Yes

RG Type: 59/U

##### Flame Test

UL Flame Test: UL1666 Vertical Shaft

##### 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)
16.300

**Nominal Velocity of Propagation:**

VP (%)
83.000

**Nominal Delay:**

Delay (ns/ft)
1.220

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
10.000

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
3.500

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.300
5.000	0.650
10.000	0.900
50.000	1.900
100.000	2.600
200.000	3.600
400.000	5.000
700.000	7.000
900.000	8.000
1000.000	8.500

**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.)
PO - Polyolefin 0.080

**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
20	7x28	TC - Tinned Copper

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### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Outer Jacket Diameter:**

Nom. Dia. (in.)
0.219

**Outer Jacket Color Code Chart:**

Number	Color
1	Blue

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

NEC/(UL) Specification: CMR

CEC/(UL) Specification: CMG

### Flame Test

UL Flame Test: UL1666 Vertical Shaft

### Suitability

Suitability - Indoor: Yes

### Electrical Characteristics

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
44.000

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)
26.000

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
6.500

**Max. Operating Voltage - Other:**

Voltage
300 V RMS

**Max. Recommended Current:**

Description	Current
Data/Control	5.2 Amps

## Multi Conductor

### Physical Characteristics

#### Conductor

**AWG:**

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	14	19x27	BC - Bare Copper	0.070

### Insulation

**Insulation Material:**

Insulation Material
PVC - Polyvinyl Chloride

**Insulation Color Code Chart:**

Number	Color
1	Red
2	Black

## 503PTZ Composite - For PTZ Cameras: CCTV + Control + Power

### Individual Shield

#### Outer Jacket

Outer Jacket Diameter:

Nom. Dia. (in.)
0.236

Outer Jacket Color Code Chart:

Number	Color
1	White

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

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

### Flame Test

UL Flame Test: UL1666 Vertical Shaft

### Suitability

Suitability - Indoor: Yes

### Electrical Characteristics

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
21.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.520

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: 0.496 in.

### Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 97.000 lbs/1000 ft.

Max. Recommended Pulling Tension: 190.000 lbs.

Min. Bend Radius/Minor Axis: 5.000 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

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EU RoHS Compliance Date (mm/dd/yyyy): 08/22/2006

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

### Plenum/Non-Plenum

Plenum (Y/N): No

### Notes (Overall)

**Notes:** RG59 CCTV + 1 STP 18 AWG Control Grade + 2C 14 AWG CMR. 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
503PTZ 0001000	1,000 FT	101.000 LB	NONE	C	2C18 + 2C14 + 1 RG59 PVC

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

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