

## 2505PTZ Composite - For PTZ Camercas: CCTV + Control + Power

**Picture  
Not Available**

For more Information  
please call

1-800-Belden1



### General Description:

PTZ (CCTV+Control+Power) Cable, Rated-CM, 1-RG59 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-18 AWG stranded bare copper pair with PVC insulation and Beldfoil® shield, 2-16 AWG stranded bare copper conductors with PVC insulation, Siamese with PVC jacket, Aluminum interlocking armor

### 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 FHDPE - 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.)
0.232

Outer Jacket Color Code Chart:

Number	Color
1	Black

### Applicable Specifications and Agency Compliance

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

EU CE Mark: Yes

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

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

EU RoHS Compliance Date (mm/dd/yyyy): 06/08/2007

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

RG Type: 59/U

#### Flame Test

UL Flame Test: UL1685 Vertical Tray Flame Test

#### Suitability

Suitability - Indoor: Yes

### Electrical Characteristics

Nom. Characteristic Impedance:

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**Impedance (Ohm)**

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
1	18	7x26	BC - Bare Copper

##### Insulation

**Insulation Material:**

Insulation Material
PVC - Polyvinyl Chloride

**Twisted Pair Color Code Chart:**

Number	Color
1	Black
2	Red

##### Inner Shield

**Inner Shield Material:**

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

**Inner Shield Drain Wire AWG:**

AWG	Stranding	Conductor Material
24	7x32	TC - Tinned Copper

##### Individual Shield

##### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Outer Jacket Diameter:**

**Nom. Dia. (in.)**

## 2505PTZ Composite - For PTZ Cameras: CCTV + Control + Power

0.165

**Outer Jacket Color Code Chart:**

Number	Color
1	Gray

**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**

**Max. Operating Voltage - Other:**

**Voltage**  
300 V RMS

### Multi Conductor

**Physical Characteristics**

**Conductor**

**AWG:**

# Conductors	AWG	Stranding	Conductor Material
2	16	19x29	BC - Bare Copper

**Insulation**

**Insulation Material:**

**Insulation Material**  
PVC - Polyvinyl Chloride

**Insulation Color Code Chart:**

Number	Color
1	Red
2	Black

**Individual Shield**

**Outer Jacket**

**Outer Jacket Material:**

**Outer Jacket Material**  
PVC - Polyvinyl Chloride

**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. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
4.200

**Max. Operating Voltage - Other:**

**Voltage**  
300 V RMS

**Max. Recommended Current:**

**Current**  
5 Amps per conductor @ 25°C

## 2505PTZ Composite - For PTZ Camercas: CCTV + Control + Power

### Physical Characteristics (Overall)

#### Conductor

#### Outer Shield

Outer Shield Separator Material: Polyester

#### Outer Jacket

##### Outer Jacket Material:

##### Outer Jacket Material

Unjacketed

#### Armor

Armor Type: Interlocking

Armor Material: Aluminum

#### 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: 142 lbs/1000 ft.

Max. Recommended Pulling Tension: 210 lbs.

Min. Bend Radius/Minor Axis: 9.500 in.

### 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): 06/08/2007

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 + 2C 18 AWG Shld + 2 C 16 AWG CMR. Individually jacketed and color coded components, cabled with an overall aluminum interlocked armor.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2505PTZ 0001000	1,000 FT	158.000 LB	NONE	C	RG59 +2C18 +2C16 FS CMR ARM

#### Notes:

C = CRATE REEL PUT-UP.

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