



**Product:** [600PTZ](#)

PTZ, RG-59 #20, #23-1pr, #18-2c, CMP, Siamese

## Product Description

PTZ (CCTV + Control + Power) Cable, Plenum-CMP, 1-RG59 20 AWG solid bare copper with foam PFA, 95% bare copper braid, 1-23 AWG solid bare copper pair with FEP insulation, 2-18 AWG stranded bare copper conductors with Flamarrest® insulation, Siamese with Flamarrest® jacket

## Technical Specifications

### Product Overview

Suitable Applications:	Surveillance, CCTV Camera, PTZ (Pan-Tilt-Zoom)
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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Coax
Coax(es)	20	Solid	BC - Bare Copper	0.032 in		1
Pair1	23	Solid	BC - Bare Copper	0.023 in	2	
Pair2	18	7x26	BC - Bare Copper	0.047 in	2	

Conductor Count: 5

#### Insulation

Element	Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
Coax(es)	FEP - Fluorinated Ethylene Propylene (Foam)		0.133 in	
Pair1	FEP - Fluorinated Ethylene Propylene		0.041 in	
Pair2	PVC - Polyvinyl Chloride	Flamarrest®		0.009 in

#### Color Chart

Number	Color
Coax Core	White
Pair1	Blue & White/Blue
Pair2	Black & Red

#### Color Chart 4

Number	Color
Coax Jacket	Black
Pair1 Jacket	Blue
Pair2 Jacket	White

#### Inner Shield

Element	Type	Material	Coverage [%]
Coax(es)	Braid	Bare Copper (BC)	95%
Pair1	No Shield	No Shield	
Pair2	No Shield		

#### Inner Jacket

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	Flamarrest®	0.193 in	0.016 in
PVC - Polyvinyl Chloride	Flamarrest®	0.116 in	0.017 in
PVC - Polyvinyl Chloride	Flamarrest®	0.158 in	0.015 in

## Outer Jacket

Material	Nominal Diameter
Banana Peel (No Overall Jacket)	0.351 in
	0.116 in
	0.158 in
No Jacket	0.351 in

## Electrical Characteristics

### Conductor DCR

Element	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR
Coax(es)	10 Ohm/1000ft	10 Ohm/1000ft	2.5 Ohm/1000ft
Pair1	20 Ohm/1000ft	20 Ohm/1000ft	
Pair2	6.5 Ohm/1000ft	6.5 Ohm/1000ft	

### Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
Coax(es)		16.1 pF/ft
Pair1	15.0 pF/ft	
Pair2	30.0 pF/ft	

### Impedance

Element	Nominal Characteristic Impedance
Coax(es)	75 Ohm

### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	.29 dB/100ft
5 MHz	0.7 dB/100ft
10 MHz	1.1 dB/100ft
50 MHz	1.8 dB/100ft
100 MHz	2.7 dB/100ft
200 MHz	3.9 dB/100ft
400 MHz	5.9 dB/100ft
700 MHz	8.5 dB/100ft
900 MHz	10 dB/100ft
1000 MHz	10.7 dB/100ft

### Delay

Element	Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
Coax(es)	84 ns/100m	1.21 ns/ft	84%

### Current

Element	Max. Recommended Current [A]
Coax(es)	
Pair1	
Pair2	5 Amps per Conductor at 25°C

### Voltage

UL Voltage Rating
300 V RMS

## Temperature Range

Installation Temperature Range:	0°C To +75°C
UL Temp Rating:	75°C
Operating Temperature Range:	-10°C To +75°C
Separation Temp Range:	0°C To +75°C

## Mechanical Characteristics

Bulk Cable Weight:	57 lbs/1000ft
Max. Pull Tension:	125 lbs

## Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMP
RG Type:	59
Other Specification:	Video coax: RG 59/U

## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## Related Part Numbers

Non-Plenum Number:	500PTZ
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## Variants

Item #	Color	UPC
600PTZ 0001000	Black, Blue, White	612825166054

Footnote:	C - CRATE REEL PUT-UP.
Patent:	This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> .

## Product Notes

Notes:	RG59 CCTV + 1 PR 23 UTP + 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.
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## History

Update and Revision:	Revision Number: 0.342 Revision Date: 04-08-2022
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