



# Product: 602PTZ

PTZ, RG-59 #20, #18-1pr, #18-2c, Shielded, 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, 1-18 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

## **Technical Specifications**

### **Product Overview**

Suitable Applications: Surveillance, CCTV Camera, PTZ (Pan-Tilt-Zoom)

### **Physical Characteristics (Overall)**

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### 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	18	19x30	BC - Bare Copper	0.044 in	2	
Pair2	18	7x26	BC - Bare Copper	0.047 in	2	

Conductor Count:

#### 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		0.059 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 Material

Element	Туре	Material	Material Trade Name	Coverage [%]
Coax(es)	Braid	Bare Copper (BC)		95%
Pair1	Таре	Bi-Laminate (Alum+Poly)	Beldfoil®	100%
Pair2	No Shield			

#### Inner Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	Flamarrest®	0.193 in	0.016 in
PVC - Polyvinyl Chloride	Flamarrest®	0.150 in	0.014 in

#### **Outer Shield Material**

Drainwire AWG	Drainwire Construction n x D
20	19x32

#### **Outer Jacket Material**

Material	Nominal Diameter
Banana Peel (No Overall Jacket)	0.363 in
	0.15 in
	0.158 in
No Jacket	0.363 in

# **Electrical Characteristics**

### Conductor DCR

Element	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Nominal Outer Shield DCR
Coax(es)	10 Ohm/1000ft	10 Ohm/1000ft	2.5 Ohm/1000ft	
Pair1	5.5 Ohm/1000ft	5.5 Ohm/1000ft	7.3 Ohm/1000ft	7.3 Ohm/1000ft
Pair2	6.5 Ohm/1000ft	6.5 Ohm/1000ft		

### Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
Coax		16.1 pF/ft
Pair1	51 pF/ft	97 pF/ft
Pair2	30 pF/ft	

### Impedance

Element	Nominal Characteristic Impedance
Coax	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	84 ns/100m	1.21 ns/ft	84%	

### Current

Element	Max. Recommended Current [A]	
Coax		
Pair1	5.2 Amps per Conductor at 25°C	
Pair2	5 Amps per Conductor at 25°C	

#### Voltage

UL Voltage Rating

300 V RMS

# **Temperature Range**

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

Separation Temp Range:	0°C To +75°C
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# **Mechanical Characteristics**

Bulk Cable Weight:	65 lbs/1000ft
Max. Pull Tension:	162 lbs

# Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMP
RG Type:	59/U Type
Other Compliance:	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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

### Suitability

Suitability - Indoor: Yes

## Flammability, LS0H, Toxicity Testing

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

### Plenum/Non-Plenum

Plenum (Y/N): Yes

## Part Number

Non-Plenum Number: 502PTZ

### Variants

Item #	Color	UPC
602PTZ 0001000	Black, Blue, White	612825172062
602PTZ 000500	Black, Blue, White	612825172079
Footnote:	C - CRATE	REEL PUT-UP.
Patent:	This produc	t has one or more

### **Product Notes**

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.
History	
Update and Revision:	Revision Number: 0.293 Revision Date: 09-30-2020

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