



Product: 601PTZ ☑

PTZ, RG-59 #20, #22-1pr, #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, 1-22 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)

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	22	7x30	BC - Bare Copper	0.03 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		0.042 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®	0.116 in	0.014 in

DVO Debesies I Obleside	FI	0.450 :	0.045 :
PVC - Polyvinyl Chloride	Fiamarrest®	0.158 in	0.015 in

Outer Shield Material

Drainwire Construction n x D
7x30

Outer Jacket Material

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	15 Ohm/1000ft	15 Ohm/1000ft	12 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	35 pF/ft	67 pF/ft
Pair2		

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	2.4 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

Mechanical Characteristics

Bulk Cable Weight:	56 lbs/1000ft
Max. Pull Tension:	130 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: 501PTZ

Variants

itelli #	00101	OI O
601PTZ 0001000	Black, Blue, White	612825171850
601PTZ 000500	Black, Blue, White	612825171867

Patent: This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents.

Product Notes

RG59 CCTV + 1 STP 22 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: 0.295 Revision Date: 09-30-2020

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