



Product: 501PTZ ☑

PTZ, RG-59 #20, #22-1pr, #18-2c, Shielded, CM, Siamese

Product Description

PTZ (CCTV + Control + Power) Cable, Rated-CM, 1-RG59 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-22 AWG stranded bare copper pair with polyolefin insulation and Beldfoil® shield, 2-18 AWG stranded bare copper conductors with PVC insulation, Siamese with PVC 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:

Insulation

Element	Material	Nominal Diameter
Coax(es)	PE - Polyethylene (Foam)	0.145 in
Pair1	PP - Polypropylene	0.062 in
Pair2	PP - Polypropylene	

Table Notes: Gas Injected

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 [%]	Drainwire AWG	Drainwire Construction n x D
Coax(es)	Braid	Bare Copper (BC)		95%	22	7x30
Pair1	Таре	Bi-Laminate (Alum+Poly)	Beldfoil®	100%		
Pair2	No Shield					

Inner Jacket Material



PVC - Polyvinyl Chloride
PVC - Polyvinyl Chloride

Outer Jacket Material

Material	Nominal Diameter
Banana Peel (No Overall Jacket)	.227 in
	.177 in
	.158 in

Table Notes: Jacket Material is Same for All Components

Outer Jacket Material 2

Nominal Diameter

0.419 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Inner Shield DCR
Coax(es)	10 Ohm/1000ft	3.5 Ohm/1000ft
Pair1	16 Ohm/1000ft	12 Ohm/1000ft
Pair2	6.5 Ohm/1000ft	

Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
Coax		16.3 pF/ft
Pair1	24 pF/ft	47 pF/ft
Pair2	21.5 pF/ft	

Impedance

Element	Nominal Characteristic Impedance
Coax	75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
5 MHz	0.65 dB/100ft
10 MHz	0.9 dB/100ft
50 MHz	1.9 dB/100ft
100 MHz	2.6 dB/100ft
200 MHz	3.6 dB/100ft
400 MHz	5 dB/100ft
700 MHz	7 dB/100ft
900 MHz	8 dB/100ft
1000 MHz	8.5 dB/100ft

Delay

Element	Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
Coax	83 ns/100m	1.22 ns/ft	83%

High Freq

Min. RL (Return Loss) [dB]
24.5 dB

Current

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

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:	60 lbs/1000ft
Max. Pull Tension:	120 lbs

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMR
CPR Euroclass:	Fca
RG Type:	59/U Type
Other Compliance:	Video coax: RG 59/U

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or 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:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	601PTZ

Part Number

Variants

501PTZ 0001000 Blac	, Gray, White 612825155836
Footnote:	C - CRATE REEL PUT-UP.
Patent:	This product has one or more a

Product Notes

RG59 CCTV + 1 STP22 AWG Control Grade + 2C 18 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.

History

Update and Revision: Revision Number: 0.309 Revision Date: 09-30-2020

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