



Product: 503PTZ

PTZ, RG-59 #20, #18-1pr, #14-2c, Shielded, CMR, Siamese

Product Description

PTZ (CCTV + Control + Power) Cable, Riser-CMR, 1-RG59 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-18 AWG stranded bare copper pair with polyolefin insulation and Beldfoil® shield, 2-14 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	Strandin	g 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	14	19x27	BC - Bare Copper	0.07 in	2	
Conducto			DO - Dare Copper	0.07 m	2	

Insulation

Element	Mater	ial	Nominal Diameter	Nominal Wall Thickness
Coax(es)	PE - Polyethylene (Foam)		0.145 in	
Pair1	PP - Polypropylene		0.018 in	
Pair2	PVC - Polyvinyl Chloride			0.014 in
Table Notes: Gas Injected		d		

Color Chart

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

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	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.227 in	0.030 in

PVC - Polyvinyl Chloride	0.219 in	0.028 in
PVC - Polyvinyl Chloride	0.236 in	0.020 in

Outer Shield Material

Drainwire Construction n x D 7x28

Outer Jacket Material

Material	Nominal Diameter
Banana Peel (No Overall Jacket)	0.496 in
	0.219 in
	0.236 in
	0.496 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	3.5 Ohm/1000ft
Pair1	6.5 Ohm/1000ft	6.5 Ohm/1000ft	
Pair2	2.5 Ohm/1000ft	2.52 Ohm/1000ft	

Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
Coax		16.3 pF/ft
Pair1	26 pF/ft	44 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%

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

Senaration Temp	Operating Temp Range: -10°C To +75°C
Range: 0°C To +75°C	Separation Temp Range: 0°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	97 lbs/1000ft
Max. Pull Tension:	190 lbs

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CM
CEC/C(UL) Compliance:	CM
RG Type:	59/U Type
Other Compliance:	Video coax: RG 59/U

Applicable Environmental and Other Programs

EU Directive Yes	
2000/53/EC (ELV):	
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): 2006-08-22	
MII Order #39 (China RoHS): Yes	

Suitability

Suitability - Indoor:	Yes	

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No				

Part Number

Variants			
Item #		Color	UPC
503PTZ 0001000	Black,	, Blue, White	612825155997
Footnote:		C - CRATE F	REEL PUT-UP.
Patent:		This product	has one or more
oduct Notes			

Notes:	RG59 CCTV + 1 STP 18 AWG Control Grade + 2C 14 AWG CM. 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: 0.306 Revision Date: 09-30-2020

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