



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

Construction Details

RG Type:	59
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Conductor

Element	Size	Stranding	Nom. Diameter	Material
Coax(es)	20	Solid	0.032 in	BC - Bare Copper
Pair1	18	19x30	0.044 in	BC - Bare Copper
Pair2	14	19x27	0.07 in	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Coax(es)	PE - Polyethylene (Foam)	0.145 in (3.68 mm)	White, Blue & White/Blue, Black & White
Pair1	PP - Polypropylene	0.018 in (0.46 mm)	
Pair2	PVC - Polyvinyl Chloride		

Insulation Table Notes:	Gas Injected
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Inner Shield

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

Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.227 in (5.77 mm)

Outer Jacket

Material	Nom. Diameter
Banana Peel (No Overall Jacket)	0.496 in
	0.219 in
	0.236 in

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
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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

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
10 Ohm/1000ft (33 Ohm/km)	3.5 Ohm/1000ft (11 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	83%	
6.5 Ohm/1000ft (21 Ohm/km)		44 pF/ft (140 pF/m)			5.2 Amps per Conductor at 25°C
2.5 Ohm/1000ft (8.2 Ohm/km)					5 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation
75°C	-10°C To +75°C	0°C To +75°C

Max. Pull Tension:	190 lbs (86 kg)
Bulk Cable Weight:	97 lbs/1000ft (140 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 800, CM
CEC / C(UL) Compliance:	CM.
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	Video coax: RG 59/U

Product 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.
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History

Update and Revision:	Revision Number: 0.364 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	UPC	Footnote
503PTZ 0001000	Black, Blue, White	612825155997	C

Footnote:	C - CRATE REEL PUT-UP.
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