



Product: [649948](#)

PTZ, RG-59 #20, #18-2c, CMP, Siamese

Product Description

PTZ (CCTV + Power/Audio) Cable, Plenum-CMP, 1-RG59 20 AWG solid bare copper with foam FEP, 95% bare copper braid, 1-18 AWG stranded bare copper pair with Flamarrest® insulation, Siamese with Flamarrest® jacket

Technical Specifications

Product Overview

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

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Coax
Coax(es)	20	Solid	BC - Bare Copper			1
Pair1	18	7x26	BC - Bare Copper	0.047 in	2	

Conductor Count:	3
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Insulation

Element	Material	Nominal Diameter
Coax(es)	PE - Polyethylene (Foam)	0.133 in
Pair1	PVC - Polyvinyl Chloride	0.062 in

Insulation Table Notes:	Gas Injected
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Color Chart

Number	Color
Coax Core	White
Pair1	Black & Red

Inner Shield

Element	Type	Material	Coverage [%]
Coax(es)	Braid	Bare Copper (BC)	95%
Pair1		No Shield	

Inner Jacket

Nominal Diameter
0.192 in

Outer Jacket

Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Flamarrest®	0.192 in x 0.383 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
Coax(es)	10 Ohm/1000ft	10 Ohm/1000ft	2.5 Ohm/1000ft	2.5 Ohm/1000ft

Pair1				
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Capacitance

Element	Nom. Capacitance Conductor to Conductor
Coax(es)	16.1 pF/ft
Pair1	

Impedance

Element	Nominal Characteristic Impedance
Coax(es)	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
Coax(es)	84 ns/100m	1.21 ns/ft

Current

Element
Coax(es)
Pair1

Temperature Range

Installation Temperature Range:	0°C To +75°C
UL Temperature Rating:	75°C
Operating Temperature Range:	0°C To +75°C
Separation Temp Range:	0°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	45 lbs/1000ft
Maximum Recommended Pulling Tension:	75 lbs

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
CPR Euroclass:	Eca
RG Type:	59

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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes

Flammability, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Related Part Numbers

Non-Plenum Number:	549945
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Variants

Item #	Color	Put-Up Type	Length	UPC
649948 877500	Natural	Reel	500 ft	612825177074
649948 8771000	Natural	Reel	1,000 ft	612825177067

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	18 AWG pair is unshielded
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History

Update and Revision:	Revision Number: 0.527 Revision Date: 02-03-2025
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