



Product: [549945](#)

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

Product Description

PTZ (CCTV + Power/Audio) Cable, Rated-CMG, 1-RG59 20 AWG solid bare copper with foam polyethylene, 95% bare copper braid, 1-18 AWG stranded bare copper pair with polypropylene insulation unshielded, Siamese with PVC 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	0.032 in		1
Pair1	18	7x26	BC - Bare Copper	0.046 in	2	

Conductor Count:	3
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Insulation

Element	Material	Nominal Diameter
Coax(es)	PE - Polyethylene (Foam)	0.145 in
Pair1	PP - Polypropylene	0.059 in

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)	90%
Pair1		No Shield	

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.232 x 0.450 in

Table Notes:	Coax OD = 0.232 in
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Construction and Dimensions

OuterJacket1, Form:	Siamese Construction
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Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
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Coax(es)	3.5 Ohm/1000ft	3.5 Ohm/1000ft
Pair1		

Capacitance

Element	Nom. Capacitance Conductor to Conductor
Coax(es)	16.3 pF/ft
Pair1	22.5 pF/ft

Impedance

Element	Nominal Characteristic Impedance
Coax(es)	75 Ohm

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Coax(es)	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	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
Coax(es)	1.22 ns/ft	83%

Current

Element
Coax(es)
Pair1

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:	-30°C To +75°C
Separation Temp Range:	0°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	50 lbs/1000ft
Max. Pull Tension:	75 lbs

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
RG Type:	59

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 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 - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only
Suitability - Sunlight Resistance:	Yes - Black only

Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	649948

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
549945 010500	Black	Reel	500 ft	612825162742
549945 0101000	Black	Reel	1,000 ft	612825162735
549945 009500	White	Reel	500 ft	612825162728
549945 0091000	White	Reel	1,000 ft	612825162711

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: 0.448 Revision Date: 12-15-2021
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