



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

Environmental Space:	Indoor (Not Riser or Plenum)
Suitable Applications:	CCTV plus Audio, Pan and Tilt CCTV Control

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Coax
Coax	20	Solid	BC - Bare Copper	0.032 in		1
Pair1	18	7x26	BC - Bare Copper	0.046 in	2	
Conductor Count:				3		

Insulation

Element	Material	Nominal Diameter
Coax	PE - Polyethylene (Foam)	0.145 in
Pair1	Polyolefin (PO, PE, PP)	0.059 in
Insulation, Table Note:		Gas Injected

Color Chart

Number	Color
Coax Core	White
Pair1	Black & Red

Inner Shield Material

Element	Type	Material	Coverage [%]
Coax	Braid	BC - Bare Copper	90 %
Pair1		No Shield	

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.232 x 0.450 in
OuterJacket1, Table Note:	Coax OD = 0.232 in

Construction and Dimensions

OuterJacket1, Form:	Siamese Construction
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Electrical Characteristics

Conductor DCR

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

Capacitance

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

Impedance

Element	Nominal Characteristic Impedance
Coax	75 Ohm

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Coax	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	1.22 ns/ft	83 %

Current

Element
Coax
Pair1

Voltage

UL Voltage Rating
300V 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 Recommended Pulling Tension:	75 lbs

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
RG Type:	59/U Type

Applicable Environmental and Other Programs

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):	2005-01-01
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, LS0H, 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

Part Number

Variants

Item #	Color	UPC	Length	Footnote
549945 0101000	Black	612825162735	1,000 ft	C
549945 010500	Black	612825162742	500 ft	C
549945 0091000	White	612825162711	1,000 ft	C
549945 009500	White	612825162728	500 ft	C

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: 0.344 Revision Date: 04-06-2020
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