

Part Number: 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:	CCTV plus Audio, Pan and Tilt CCTV Control
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	1	1
18	7x26	BC - Bare Copper	0.046 in	1	

Conductor Count:	3
Conductor Size:	20 AWG

Insulation

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.145 in
PP - Polypropylene	0.059 in

Color Chart

Number	Color
1	Black and Red

Inner Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	Coax Braid	Unshielded	90 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.232 x 0.45 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
10 Ohm/1000ft	10 Ohm/1000ft	3.5 Ohm/1000ft	3.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
22.5 pF/ft	16.3 pF/ft

Shielding:	Braid(s)
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Inductance

Nominal Inductance
0.097 µH/ft

Impedance

Nominal Characteristic Impedance
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

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.22 ns/ft	83 %

Unbalanced Crosstalk

Typical Unbalanced NEXT %
0.7 MHz

High Freq

Frequency [MHz]
1 MHz
5 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz
700 MHz
900 MHz
1000 MHz

Voltage

UL Voltage Rating
300 V

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	54 lbs/1000ft
Max Recommended Pulling Tension:	102 lbs
Min Bend Radius/Minor Axis:	2.5 in

Dimensions (WxHxD)

Height
0.754

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMG

CEC/C(UL) Specification:	CMG
CPR Euroclass:	Eca
RG Type:	59/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes - Black only

Flammability, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Footnote
549945 0101000	Black	C
549945 010500	Black	C
549945 0091000	White	C
549945 009500	White	C

Footnote:	C - CRATE REEL PUT-UP.
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