



**Product:** [539945](#)

PTZ, RG-6 #18, #18-2c, CMG, Siamese

## Product Description

PTZ (CCTV + Power/Audio) Cable, Rated-CMG, 1-RG6 18 AWG solid bare copper with foam polyethylene 90% bare copper braid, 1-18 AWG stranded bare copper pair with polypropylene insulation, 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	18	Solid	BC - Bare Copper			1
Pair1	18	7x26	BC - Bare Copper	0.046 in	2	

Conductor Count:	3
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#### Insulation

Element	Material	Nominal Diameter
Coax	PE - Polyethylene (Foam)	0.180 in
Pair1	PP - Polypropylene	0.059 in

Insulation, Table Note:	Gas Injected
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#### Color Chart

Number	Color
Coax Core	White
Pair1	Black & Red

#### Inner Shield Material

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

#### Inner Jacket Material

Nominal Diameter
0.267 in

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.267 in x 0.485 in

### Construction and Dimensions

OuterJacket1, Nominal Width:	0.0236 in
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### Electrical Characteristics

#### Conductor DCR

Element	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR
Coax	6.4 Ohm/1000ft	6.4 Ohm/1000ft	3.1 Ohm/1000ft
Pair1	6.4 Ohm/1000ft		

#### Capacitance

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

#### Impedance

Element	Nominal Characteristic Impedance
Coax	75 Ohm

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.2 dB/100ft
5 MHz	0.45 dB/100ft
10 MHz	0.64 dB/100ft
50 MHz	1.46 dB/100ft
100 MHz	2.1 dB/100ft
200 MHz	3 dB/100ft
400 MHz	4.3 dB/100ft
700 MHz	5.8 dB/100ft
900 MHz	6.7 dB/100ft
1000 MHz	7.1 dB/100ft

#### Delay

Element	Max. Delay Skew	Nominal Delay
Coax	83 ns/100m	1.22 ns/ft

#### Current

Element	Max. Recommended Current [A]
Coax	5A
Pair1	

#### 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:	89 lbs

#### Standards

NEC Articles:	800
NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
RG Type:	6/U Type

#### 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 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):	2005-04-01
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 FT4 Loading
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	639948

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
539945 010500	Black	Reel	500 ft	612825161882
539945 0101000	Black	Reel	1,000 ft	612825161875
539945 009500	White	Reel	500 ft	612825161868
539945 0091000	White	Reel	1,000 ft	612825161851

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: 0.351 Revision Date: 04-28-2020
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