



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(es)	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(es)	PE - Polyethylene (Foam)	0.180 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)	95%
Pair1		No Shield	

Outer Jacket

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(es)	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(es)	16.3 pF/ft
Pair1	

Impedance

Element	Nominal Characteristic Impedance
Coax(es)	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(es)	83 ns/100m	1.22 ns/ft

Current

Element	Max. Recommended Current [A]
Coax(es)	5 Amps per Conductor
Pair1	

Temperature Range

Installation Temperature Range:	0°C To +75°C
UL Temp Rating:	75°C
Operating Temperature 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:	89 lbs

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
RG Type:	6

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
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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 FT4 Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Related Part Numbers

Variants

Item #	Color	Put-Up 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: 0.447 Revision Date: 05-11-2022
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