



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)
------------------------	--

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		

Insulation		
Element	Material	Nominal Diameter
Coax(es)	PE - Polyethylene (Foam)	0.180 in
Pair1	PP - Polypropylene	0.059 in
Table Notes:		Gas Injected

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	

Inner Jacket	
Nominal Diameter	
0.267 in	

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

Construction and Dimensions

OuterJacket1, Nominal Width:	0.0236 in
------------------------------	-----------

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 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:	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
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	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.
-----------	------------------------

Product Notes

Notes:	18 AWG pair is unshielded
--------	---------------------------

History

Update and Revision:	Revision Number: 0.445 Revision Date: 12-15-2021
----------------------	--

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

[539945 0091000](#) [539945 009500](#) [539945 010500](#) [539945 0101000](#) [539945X 0101000](#) [539945X 0091000](#)