

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
------------------------	--

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 %
		Unshielded	

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

Inductance

Nominal Inductance
0.097 μ H/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
RG / Series 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, LS0H, Toxicity Testing

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

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.
-----------	------------------------

© 2018 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:](#)

[549945 0101000](#) [549945 009500](#) [549945 0091000](#) [549945 010500](#)