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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Part Number: 649948

PTZ, RG-59 #20, #18-2c, CMP, Siamese



Product Description

PTZ (CCTV + Power/Audio) Cable, Plenum-CMP, 1-RG59 20 AWG solid bare copper with foam FEP, 95% bare copper braid, 1-18 AWG stranded bare copper pair with FEP insulation, Siamese with Flamarrest® jacket

Technical Specifications

Product Overview

Suitable Applications:	CCTV plus Audio, Pan and Tilt CCTV Control, Composite, Siamese
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	1	1	1
18	7x26	BC - Bare Copper	0.047 in			

Conductor Count:	3
Conductor Size:	20 AWG

Insulation

Material	Material Trade Name	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	Flamarrest®	0.133 in
LS PVC - Low Smoke Polyvinyl Chloride		0.062 in

Color Chart

Number	Color
1	Black and Red

Inner Shield Material

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

Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	1	BC - Bare Copper	95 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.192 x 0.383 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	2.5 Ohm/1000ft	2.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
24 pF/ft	16.1 pF/ft

Shielding:	Braid(s)
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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	0.7 dB/100ft
10 MHz	1 dB/100ft
50 MHz	2 dB/100ft
100 MHz	2.7 dB/100ft
200 MHz	3.9 dB/100ft
400 MHz	5.9 dB/100ft
700 MHz	8.5 dB/100ft
900 MHz	10 dB/100ft
1000 MHz	10.7 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
84 ns/100m	1.21 ns/ft	84 %

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 RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	44 lbs/1000ft
Max Recommended Pulling Tension:	97 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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 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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT6
UL Flammability:	NFPA 262 Plenum Flame Test
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	549945
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Variants

Item #	Color	Footnote
649948 8771000	Natural	C
649948 877500	Natural	C

Footnote:	C - CRATE REEL PUT-UP.
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