

Product: [9204](#) 

MIL-C-17G, RG59, 75 Ohm Coax, #23 Solid BCCS, 95% BC Braid, CMH



Product Description

23 awg solid .023" bare copper-covered steel conductor, polyethylene insulation, bare copper braid shield (95% coverage), non-contaminating PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BCCS - Bare Copper Covered Steel	0.023 in	1

Conductor Count: 1

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.145 in

Outer Shield Material

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.242 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
47 Ohm/1000ft	47 Ohm/1000ft	2.6 Ohm/1000ft	2.6 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
20.5 pF/ft

Inductance

Nominal Inductance
0.115 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100ft
10 MHz	1.1 dB/100ft

50 MHz	2.4 dB/100ft
100 MHz	3.4 dB/100ft
200 MHz	4.9 dB/100ft
400 MHz	7 dB/100ft
700 MHz	9.7 dB/100ft
900 MHz	11.1 dB/100ft
1000 MHz	12 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
400 MHz	9 dB/100ft
1000 MHz	16 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
50 MHz	450 W
100 MHz	300 W
200 MHz	200 W
400 MHz	130 W
700 MHz	95 W
900 MHz	80 W
1,000 MHz	72 W

Voltage

Non-UL Voltage Rating
1700 V RMS

Temperature Range

Non-UL Temp Rating:	85°C
Operating Temp Range:	-40°C To +85°C

Mechanical Characteristics

Bulk Cable Weight:	36 lbs/1000ft
Max. Pull Tension:	78 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Compliance:	CMH
CEC/C(UL) Compliance:	CMH
RG Type:	59
Military Compliance:	MIL-DTL-17, M17/29-RG59, QPL

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:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

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UL Flammability:	VW-1
CSA Flammability:	FT1

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
9204 010500	Black	Reel	500 ft	612825358879
9204 0101000	Black	Reel	1,000 ft	612825225256

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.278 Revision Date: 09-10-2021
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