



Product: [128241](#)

Coax RG59, #23 Sol BCCS40%, PO Ins, OA BC Brd, PVC Jkt, AIA Armor, PVC Jkt, CMG

Product Description

Coax RG59, 23AWG (Solid) Bare Copper Covered Steel 40% Conductivity, PO Insulation, Overall Bare Copper Braid(95%) Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, CMG

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Physical Characteristics (Overall)

Conductor

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

Conductor Count:	1
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PE - Polyethylene	0.146 in	0.062 in

Inner Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.24 in	0.033 in

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.520 in	0.045 in

Construction and Dimensions

Armor

Type of Armor	Material	Thickness of Armoring Tape	Diameter over Armoring
Interlocked Aluminum	Aluminum	0.022 in	0.430 in

Electrical Characteristics

Capacitance

Nom. Capacitance Conductor to Other Conductor to Shield
20.5 pF/ft

Inductance

Nominal Inductance
0.131 μ H/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	7.0 dB/100ft
700 MHz	9.7 dB/100ft
900 MHz	11.1 dB/100ft
1000 MHz	12.0 dB/100ft

Delay

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

High Frequency

Max./Min. Input Impedance (unFitted)
75

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-40°C To +75°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	138 lbs/1000ft
Min. Bend Radius/Minor Axis:	5.25 in

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CM
CEC/C(UL) Compliance:	CMG

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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:	Yes

Suitability

Suitability - Hazardous Locations:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 UL loading
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	UPC
128241 0101000	Black	612825110798
128241 0105000	Black	612825110804

History

Update and Revision:	Revision Number: 0.176 Revision Date: 02-03-2025
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