

Product: [8259](#) 

50 Ohm, RG58 Type, 20 AWG Stranded TC, TC Braid, PVC Jacket



Product Description

50 Ohm, RG-58A/U type, 20 AWG stranded (19x33) .035" tinned copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Stranded	TC - Tinned Copper	0.035 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
PE - Polyethylene	0.117 in

Outer Shield Material

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	95 %

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.193 in	0.0275 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
10.8 Ohm/1000ft	4.1 Ohm/1000ft	4.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
30.8 pF/ft

Inductance

Nominal Inductance
0.092 μ H/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft
10 MHz	1.5 dB/100ft

50 MHz	3.7 dB/100ft
100 MHz	5.4 dB/100ft
200 MHz	8.1 dB/100ft
400 MHz	12.4 dB/100ft
700 MHz	17.7 dB/100ft
900 MHz	21.1 dB/100ft
1000 MHz	22.8 dB/100ft

Delay

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

Voltage

Non-UL Voltage Rating
1400 V RMS

Temperature Range

Non-UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	25 lbs/1000ft
Max Recommended Pulling Tension:	39 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

CPR Euroclass:	Eca
RG Type:	58A/U Type

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/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:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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

Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
8259 010100	Black	Reel	100 ft	612825197379
8259 010500	Black	Reel	500 ft	612825197393

8259 010U500	Black	UnReel	500 ft	612825357636
8259 0101000	Black	Reel	1,000 ft	612825197386
8259 010U1000	Black	UnReel	1,000 ft	612825197355
8259 0105000	Black	Reel	5,000 ft	612825197348

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.287 Revision Date: 04-28-2020
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