


Product: [83266](#) 

95 Ohm, RG180, 30 AWG SCCCS



Product Description

95 Ohm RG-180, 30 AWG Stranded (7x38) .012" silver-coated copper-covered steel conductor, PTFE insulation, silver-plated copper braid shield (90% coverage), FEP jacket, commercial non-QPL product.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
30	Stranded	SCCS - Silvered Copper Covered Steel	0.012 in	1

Conductor Count: 1

Insulation

Material	Nominal Diameter
PTFE - Polytetrafluoroethylene	0.102 in

Outer Shield

Type	Layer	Material	Coverage [%]
Braid	1	Silvered Copper (SC)	90%

Outer Jacket

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.141 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
94 Ohm/1000ft	6.5 Ohm/1000ft	6.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
15 pF/ft

Inductance

Nominal Inductance
0.135 μ H/ft

Impedance

Nominal Characteristic Impedance
95 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	2.4 dB/100ft
10 MHz	3.3 dB/100ft

50 MHz	4.6 dB/100ft
100 MHz	5.7 dB/100ft
200 MHz	7.6 dB/100ft
400 MHz	10.7 dB/100ft
700 MHz	14.9 dB/100ft
900 MHz	15.9 dB/100ft
1000 MHz	17 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.46 ns/ft	70%

Temperature Range

Non-UL Temp Rating:	200°C
Operating Temp Range:	-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	18 lbs/1000ft
Max. Pull Tension:	22 lbs
Min. Bend Radius/Minor Axis:	1.5 in

Standards

RG Type:	180
Military Compliance:	Commercial, non-QPL product (M17/95-RG180)
Qualified Products List (QPL):	No

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
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:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
83266 0011000	Brown	Reel	1,000 ft	612825203735

Footnote: C - CRATE REEL PUT-UP., E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.

History

Update and Revision:	Revision Number: 0.230 Revision Date: 12-15-2021
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