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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: 83265



50 Ohm Coax, RG178, 30 AWG Stranded SCCCS, SPC Braid, FEP Jacket, Commercial Non-QPL Product.

Product Description

RG-178/U, 30 AWG stranded (7x38) .012" silver-plated copper-covered steel conductor, TFE insulation, silver-plated copper braid shield (95% coverage), FEP jacket, commercial non-QPL product.

Technical Specifications

Product Overview

Environmental Space:	Outdoor - Aerial
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
30	Stranded	SCCCS - Silver Coated Copper Covered Steel	0.012 in	1

Conductor Count:	1
Conductor Size:	30 AWG

Insulation

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.033 in

Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	1	SPC - Silver Plated Copper	95 %

Outer Jacket Material

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.071 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
244 Ohm/1000ft	14.6 Ohm/1000ft	14.6 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
29 pF/ft

Shielding:	Braid(s)
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Inductance

Nominal Inductance
0.072 µH/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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1 MHz	2.6 dB/100ft
10 MHz	5.6 dB/100ft
50 MHz	10.5 dB/100ft
100 MHz	14 dB/100ft
200 MHz	19 dB/100ft
400 MHz	28 dB/100ft
700 MHz	37 dB/100ft
900 MHz	42.5 dB/100ft
1000 MHz	46 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.46 ns/ft	69.5 %

Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
50 MHz	380 W	380 W
100 MHz	253 W	253 W
200 MHz	170 W	170 W
400 MHz	113 W	113 W
700 MHz	81 W	81 W
900 MHz	70 W	70 W
1,000 MHz	66 W	66 W

Voltage

Description	Voltage Rating [V]
750V RMS	750 V RMS (Mil Spec)

VSWR

Frequency [MHz]	Max. VSWR
50 MHz - 1000 MHz	per M17/93-RG178

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	5 lbs/1000ft
Max Recommended Pulling Tension:	12 lbs
Min Bend Radius/Minor Axis:	1 in

Standards

RG Type:	178/U Type
Military Specification:	Commercial, non-QPL product (M17/93-RG178)
QPL (Qualified Parts List):	No
RG / Series Type:	178/U Type
Other Specification:	UL Style 1637

Applicable Environmental and Other Programs

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:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
Mil 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
Suitability - Sunlight Resistance:	No

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Footnote
83265 009100	White	E
83265 0091000	White	E
83265 009500	White	E

Footnote:	E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'.
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