

Product: <u>83265</u> ☑



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

Physical Characteristics (Overall)

Condu							
AWG	Stranding			terial		Nominal Diameter	No. of Coax
30	Stranded	SCCS - Silv	ered C	Copper Covered S	steel	0.012 in	1
Conductor Count: 1							
nsulat	isulation						
	Materia	ıl	Mate	rial Trade Name	No	minal Diameter	
PTFE	- Polytetraflu	uoroethylene	Teflor	n®	0.0	033 in	
Outer S	Shield Mater	rial					
Туре	Layer	Material		Coverage [%]			
Braid	1 SC	- Silvered Co	pper	95%			
0	Jacket Mate						
outer .		erial		Nominal Diam	eter	0	
FFP -			ovlene		5101		
FEP - Fluorinated Ethylene Propylene 0.071 in							
Electrical Characteristics							
Conductor DCR							
Nomi	nal Conduct	tor DCR No	minal (Outer Shield DC	R C	Outer Conductor DC	R
244 O	hm/1000ft	ft 14.6 Ohm/1000ft		1	14.6 Ohm/1000ft		
Capacitance							
		e Conductor	to Shi	ield			
29 pF/	/ft						

Inductance

Nominal Inductance

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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. Pull Tension:	12 lbs
Min Bend Radius/Minor Axis:	1 in

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Aerial
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
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
Suitability - Sunlight Resistance:	No

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

ltem #	Color	Putup Type	Length	UPC
83265 009100	White	Reel	100 ft	612825203698
83265 009500	White	Reel	500 ft	612825203711
83265 0091000	White	Reel	1,000 ft	612825203704
Footnote:			E - 1	MAY CONTAIN N

History

Update and Revision:

Revision Number: 0.281 Revision Date: 04-28-2020

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