

**Product:** <u>83265</u> ☑

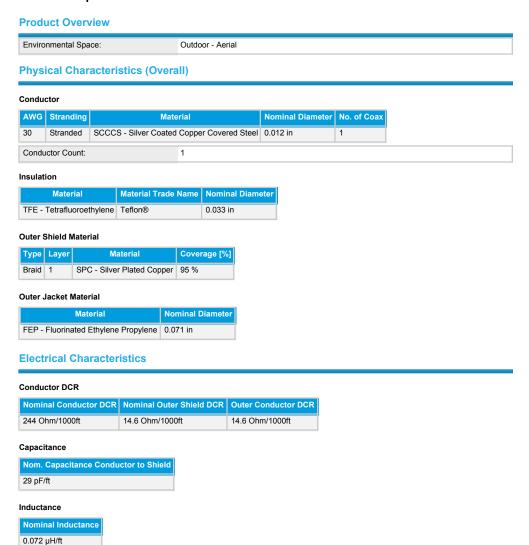


50 Ohm Coax, RG178, 30 AWG Stranded SCCCS, SPC Braid, FEP Jacket, Commercial Non-QPL Product.

## **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**



High Frequency (Nominal/Typical)

Nominal Characteristic Impedance

Impedance

50 Ohm

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 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
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
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

Item #	Color	UPC	Length	Footnote
83265 009100	White	612825203698	100 ft	E
83265 0091000	White	612825203704	1,000 ft	E
83265 009500	White	612825203711	500 ft	E

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

Update and Revision:	Revision Number: 0.274 Revision Date: 08-22-2019
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