

## Part Number: 83264



75 Ohm Coax, RG179, #30 stranded silver-plated copper conductor, 95% silver braid, FEP jacket, commercial non-QPL product.

### Product Description

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	SPCCS - Silver Plated Copper Covered Steel	0.012 in	1

Conductor Count:	1
Conductor Size:	30 AWG

##### Insulation

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.063 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	0.1 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
244 Ohm/1000ft	8.5 Ohm/1000ft	8.5 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
19.5 pF/ft

Shielding:	Braid(s)
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##### Inductance

Nominal Inductance
0.1 µH/ft

##### Impedance

Nominal Characteristic Impedance
75 Ohm

##### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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1 MHz	3 dB/100ft
10 MHz	5.3 dB/100ft
50 MHz	8.5 dB/100ft
100 MHz	10 dB/100ft
200 MHz	12.5 dB/100ft
400 MHz	16 dB/100ft
700 MHz	19.7 dB/100ft
900 MHz	22.3 dB/100ft
1000 MHz	24 dB/100ft

#### Delay

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

#### Power Rating

Frequency [MHz]	Max. Power Rating [W]
50 MHz	1,250 W
100 MHz	865 W
200 MHz	599 W
400 MHz	415 W
700 MHz	308 W
900 MHz	270 W
1,000 MHz	255 W

#### Voltage

Non-UL Voltage Rating
900 V RMS (Mil-Spec)

#### Temperature Range

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

#### Mechanical Characteristics

Bulk Cable Weight:	10 lbs/1000ft
Max Recommended Pulling Tension:	19 lbs
Min Bend Radius/Minor Axis:	1 in

#### Standards

RG Type:	179/U Type
Military Specification:	Commercial, non-QPL product (M17/94-RG179)
QPL (Qualified Parts List):	No
RG / Series Type:	179/U Type

#### 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
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Part Number**

**Variants**

Item #	Color	Footnote
83264 001100	Brown	E
83264 0011000	Brown	C E
83264 001500	Brown	E

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

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