



Product: [83265](#)

Mil-Spec Coax, 50 Ohm, RG-178, 30 AWG Str SCCS, 95% SC Braid, FEP Jkt, Commercial Non-QPL

Product Description

Mil-Spec Coax, 50 Ohm, RG-178, 30 AWG (7x38) Silvered Copper Covered Steel Conductor, PTFE Insulation, 95% Silvered Copper Braid Shield, FEP Jacket, Commercial, non-QPL

Technical Specifications

Product Overview

Suitable Applications:	Aerospace wireless communication
------------------------	----------------------------------

Construction Details

RG Type:	178
----------	-----

Conductor

AWG	Stranding	Nom. Diameter	Material
30	7x38	0.012 in	SCCS - Silvered Copper Covered Steel

Insulation

Material	Nom. Diameter
PTFE - Polytetrafluoroethylene	0.033 in

Outer Shield Material

Layer	Outer Shield Type	Material	Coverage
1	Braid	Silvered Copper (SC)	95%

Outer Jacket Material

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.071 in

Electrical Characteristics

VSWR

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

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
1 MHz	2.6 dB/100ft
10 MHz	5.6 dB/100ft
50 MHz	10.5 dB/100ft
100 MHz	14.0 dB/100ft
200 MHz	19.0 dB/100ft
400 MHz	28.0 dB/100ft
700 MHz	37.0 dB/100ft
900 MHz	42.5 dB/100ft
1000 MHz	46.0 dB/100ft

Power Rating

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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance
232 Ohm/1000ft	14.6 Ohm/1000ft	29 pF/ft	50 Ohm

Voltage

UL Voltage Rating	Non-UL Voltage Rating
300 V (UL AWM 1637)	750 V (Mil-Spec)

Mechanical Characteristics

Temperature

UL Rating	Operating
90°C (UL AWM 1637)	-70°C to +200°C

Bend Radius

Installation Min.
0.7 in

Bulk Cable Weight:	5 lbs/1000ft
Max. Pull Tension:	12 lbs

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor
Sustainability:	CA Prop 65
AWM Compliance:	1637
Military Compliance:	Commercial, non-QPL product (M17/93-RG178)
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.309 Revision Date: 08-25-2020
----------------------	--

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[83265 0091000](#) [83265 009500](#) [83265 009100](#)