Belden

Product: 83284

Mil-Spec Coax, 50 Ohm, RG-316, 26 AWG Str SCCS, 95% SC Braid, FEP Jkt, Commercial Non-QPL

Product Description

Mil-Spec Coax, 50 Ohm, RG-316, 26 AWG (7x34) 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:	316

Conductor

Size	Stranding	Nom. Diameter	Material
26 AWG	7x34	0.020 in	SCCS - Silvered Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code
PTFE - Polytetrafluoroethylene	0.060 in (1.5 mm)	White

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.098 in (2.5 mm)

Overall Cable Diameter (Nominal):	0.098 in (2.5 mm)

Electrical Characteristics

VSWR

Frequency	Max. VSWR
1 MHz - 3000 MHz	per M17/113-RG316

Attenuation

Frequency	Nom. Attenuation
1 MHz	1.2 dB/100ft
10 MHz	2.7 dB/100ft
50 MHz	5.6 dB/100ft
100 MHz	8.3 dB/100ft
200 MHz	12.0 dB/100ft
400 MHz	17.5 dB/100ft
700 MHz	23.7 dB/100ft
900 MHz	27.3 dB/100ft
1000 MHz	29.0 dB/100ft
1500 MHz	36.5 dB/100ft

2000 MHz	42.5 dB/100ft
2400 MHz	47.2 dB/100ft
3000 MHz	53.6 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
82.5 Ohm/1000ft (271 Ohm/km)	8.5 Ohm/1000ft (28 Ohm/km)	29 pF/ft (95 pF/m)	50 Ohm	70%

Voltage

Voltage Rating
900 V (Mil-Spec)

Mechanical Characteristics

Temperature

Operating
-70°C to +200°C

Bend Radius

Installation Min.
1 in (25 mm)

Max. Pull Tension:	21 lbs (9.5 kg)
Bulk Cable Weight:	10 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Aerial - When supported by messenger wire
Sustainability:	CA Prop 65
CEC / C(UL) Compliance:	.
Military Compliance:	Commercial, non-QPL product (M17/113-RG316)
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.513 Revision Date: 02-20-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83284 009100	White	Reel	100 ft	612825203797	E
83284 009500	White	Reel	500 ft	612825206118	E
83284 0091000	White	Reel	1,000 ft	612825203803	E

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

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