Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

83265 Coax - 50 Ohm Coax



For more Information
please call

1-800-Belden1

General Description:

30 AWG stranded (7x38) .012" silver-plated copper-covered steel conductor, TFE Teflon® insulation, silver-plated copper braid shield (95% coverage), FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	30	7x38	SPCCS - Silver Plated Copper Covered Steel	.012

Total Number of Conductors:	1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.033

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	SPC - Silver Plated Copper	95.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

Overall Cable

Overall Nominal Diameter:	0.071 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	90C
Bulk Cable Weight:	5 lbs/1000 ft.
Max. Recommended Pulling Tension:	12 lbs.
Min. Bend Radius/Minor Axis:	1 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Military Specification:	MIL-C-17, M17/93-RG178
Other Specification:	UL Style 1637
RG Type:	178B/U

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/ft)
0.072

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
29.0

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/ft)
1.46

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
244.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14.6

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	2.6
10	5.6
50	10.5
100	14.0
200	19.0
400	28.0
700	37.0
900	42.5
1000	46.0

Nom. Power Rating:

Freq. (MHz)	Rating (W)
50	380
100	253
200	170
400	113
700	81
900	70
1000	66

Max. Operating Voltage - UL:

Voltage	Description
30 V rms	AWM 1637

Max. Operating Voltage - Other:

Voltage	Description
Military Specification	750 V RMS

Misc. Information (Overall)

Notes (Overall)

Notes: Military Specification (M17/93) Operationg Temperature: -55C to 200C. - - - Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83265 009100	100 FT	0.800 LB	WHITE	E	M17/93-RG178
83265 0091000	1,000 FT	6.000 LB	WHITE	E	M17/93-RG178
83265 009500	500 FT	3.500 LB	WHITE	E	M17/93-RG178

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

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Revision Number: 5 Revision Date: 09-03-2014

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