Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7977A Coax - Low Loss 50 Ohm Wireless RF Transmission Cable



For more Information please call

1-800-Belden1



Description:

5.5 AWG solid .176" bare copper-covered aluminum conductor, foam HDPE insulation, Duobond® II (100% coverage) plus a tinned copper braid shield (85% coverage), polyethylene jacket.

-	hysical Characteristics (Overall)									
	nducto WG:	or								
		AWG	Stranding	Conductor	Mater	ial	Dia. (in.)			
	1	5.5	-			per Covered				
Ins	ulation	1								
Ir	nsulatio	n Mat	erial:							
	Insulat					Dia. (in.)				
	FHDPE	- Foar	n High Dens	ity Polyethyl	lene .	455				
	ter Shi									
0			laterial: r Shield Tra	de Name T	vne	Outer Shield	Material	Coverage (%)		
	1		led Duofoil®					100		
	2			В	raid ⁻	TC - Tinned C	opper	85		
Out	ter Jac	ket								
O	Outer Ja	cket I	Material:							
			Material							
	PE - Po	olyethyl	ene							
Ove	erall Ca	able								
_	Overal	I Nom	inal Diame	eter:			0.590 in.			
Nec	hanic	al Cl	naracteri	istics (O	vera	all)				
			emperature			,	-40°C To +80°C			
-	Non-UL Temperature Rating: 80°C			80°C						
	Bulk Cable Weight:			163 lbs/1000 ft.						
-	Max. R	ecom	mended P	ulling Ten	sion	:	290 lbs.			
	Min. Bend Radius (Install)/Minor Axis:			5.900 in.						
\pn	licabl	e Sn	ecificatio	ons and	Age	ency Con	pliance (Overall)			
		-			-	tal Progra				
-1-1	EU CE						No			
	EU Dir	ective	2000/53/E	C (ELV):			Yes			
-	EU Dir	ective	2002/95/E	C (RoHS):	:		Yes			
-	EU Ro	HS Co	mpliance	Date (mm/	/dd/y	ууу):	01/01/2005			
	EU Dir	ective	2002/96/E	C (WEEE)):		Yes			
	EU Dir	ective	2003/11/E	C (BFR):			Yes			
	CA Pro	op 65 ((CJ for Wir	e & Cable	·):		Yes			

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MII Order #39 (China RoHS):	Yes
Series Type:	RF 600
Suitability	
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes - when supported by a messenger wire
Plenum/Non-Plenum	
Plenum (Y/N):	No
Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) 0.060	
Nom. Capacitance Conductor to Shield:	
Capacitance (pF/ft) 24.6	
Nominal Velocity of Propagation:	
VP (%)	

85

Nominal Delay:

Delay (ns/ft) 1.19

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

.53

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.8

Maximum VSWR:

Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
5.000	2690.000	1.25:1
2690.000	3290.000	2.00:1
3290.000	6000.000	1.43:1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
30	.46
50	.61
150	.98
220	1.18
450	1.72
900	2.54
1500	3.40
1800	3.77
2000	4.01
2500	4.58
3000	5.07
3500	5.56
4500	6.44
5800	7.56
6000	7.75

Max. Power Rating: Freq. (MHz) Rating (W)



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30	5057
220	1975
450	1353
900	921
1500	691
1800	623
2000	587
3500	425
4500	368
5800	315
6000	309

Max. Operating Voltage - Non-UL:

Voltage

300 V RMS

Notes (Overall)

Notes: 100% Sweep tested. Belden® The Wire in Wireless®.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7977A 0101000	1,000 FT	146.000 LB	BLACK	С	#5H GIFPE SH LDPE
7977A 010500	500 FT	73.500 LB	BLACK	С	#5H GIFPE SH LDPE

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 10-02-2009

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