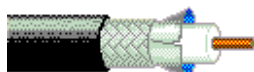


7976A Coax - Low Loss 50 Ohm Wireless RF Transmission Cable



For more Information
please call

1-800-Belden1



General Description:

7 AWG solid .142" bare copper-covered aluminum conductor, foam HDPE insulation, Duobond® II (100% coverage) plus a tinned copper braid shield (90% coverage), polyethylene jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	7	Solid	BCCA - Bare Copper Covered Aluminum	3.6068

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FHDPE - Foam High Density Polyethylene	9.398

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	90

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

Overall Cable

Overall Nominal Diameter: 12.700 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 178.584 Kg/Km

Max. Recommended Pulling Tension: 1045.330 N

Min. Bend Radius/Minor Axis: 127 mm

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): 01/01/2005

EU Directive 2002/96/EC (WEEE): Yes

METRIC MEASUREMENT VERSION

7976A Coax - Low Loss 50 Ohm Wireless RF Transmission Cable

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Series Type: RF 500

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/m)
0.19686

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
82.3531

Nominal Velocity of Propagation:

VP (%)
84

Nominal Delay:

Delay (ns/m)
3.97001

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
2.69042

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
5.2496

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/100m)
30	1.80455
50	2.39513
150	3.9372
220	4.9215
450	7.2182
900	10.4992
1500	13.7802
1800	15.4207
2000	16.405
2500	18.7017
3000	20.6703
3500	22.6389
4500	26.248
5800	30.5133