



Product: [RA500P](#) 

Low Loss 1/2" Coaxial Cables

Product Description

DAS Coax, 1/2 Inch Low Loss Plenum Air, Corrugated Copper Outer Conductor, PVC Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	In-building wireless systems for active and passive distributed antenna systems (DAS). 4G LTE, LTE Advanced (LTE-A) and LTE Advanced Pro with Licensed Assisted Access (LAA). Public safety emergency responder radio communications systems (ERRCS). CBRS/private LTE networks
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Construction Details

Conductor

Size	Stranding	Nom. Diameter	Material
5	Solid	0.188 in	BCCA - Bare Copper Covered Aluminum

Insulation

Material
PE - Polyethylene (Semi-Solid)

Outer Shield

Material	Coverage
Bare Copper (BC)	100%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.630 in (16.0 mm)

Electrical Characteristics

VSWR

Frequency	Max. VSWR
700-894 MHz	1.25
806-960 MHz	1.25
1700-2700 MHz	1.25
2700-3555 MHz	1.3
3700-4200 MHz	1.35

Attenuation

Frequency	Nom. Attenuation
5 MHz	0.35 dB/100ft
30 MHz	0.36 dB/100ft
100 MHz	0.66 dB/100ft
150 MHz	0.82 dB/100ft
450 MHz	1.47 dB/100ft
700 MHz	1.84 dB/100ft
824 MHz	2.03 dB/100ft
890 MHz	2.10 dB/100ft

894 MHz	2.12 dB/100ft
960 MHz	2.21 dB/100ft
1000 MHz	2.24 dB/100ft
1700 MHz	3.06 dB/100ft
1800 MHz	3.16 dB/100ft
2000 MHz	3.36 dB/100ft
2300 MHz	3.63 dB/100ft
2400 MHz	3.76 dB/100ft
2700 MHz	4.00 dB/100ft
3000 MHz	4.32 dB/100ft
3400 MHz	4.62 dB/100ft
3500 MHz	4.71 dB/100ft
4000 MHz	5.11 dB/100ft
5000 MHz	6.00 dB/100ft
6000 MHz	6.78 dB/100ft

Power Rating

Frequency	Max. Power Rating
30 MHz	6,190 W
150 MHz	2,740 W
700 MHz	1,240 W
890 MHz	1,100 W
960 MHz	1,050 W
1,000 MHz	1,030 W
1,800 MHz	760 W
2,000 MHz	720 W
3,000 MHz	580 W
4,000 MHz	490 W
5,000 MHz	440 W
6,000 MHz	390 W

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
0.5 Ohm/1000ft (1.6 Ohm/km)	23 pF/ft (75 pF/m)	50 Ohm	88%

Voltage

Voltage Rating
4000 VDC

Mechanical Characteristics

Temperature

Operating
-20°C to +75°C

Max. Pull Tension:	249 lbs (113 kg)
Bulk Cable Weight:	162 lbs/1000ft (241 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Non-Plenum Number:	RA500

History

Update and Revision:	Revision Number: 0.309 Revision Date: 05-13-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length
RA500P 0101000	Black	Reel	1,000 ft
RA500P 0103000	Black	Reel	3,000 ft

RA500P 0061000	Blue, Light	Reel	1,000 ft
RA500P 0063000	Blue, Light	Reel	3,000 ft
RA500P 3651000	White	Reel	1,000 ft
RA500P 3653000	White	Reel	3,000 ft

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