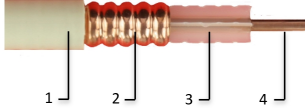


# JMA12P-50

## 1/2" Annular Plenum Coaxial Cable



1: Jacket    2: Outer conductor    3: Dielectric    4: Inner conductor



Contact technical support:  
1-888-201-6073  
[techsupport@jmawireless.com](mailto:techsupport@jmawireless.com)

Available options	Length (ft)	Packaging type
JMA12P-50-500	500	Standard 28" spool
JMA12P-50-1312	1,312	Standard 28" spool

Construction			Associated Connectors	
Inner conductor	Material	Copper clad aluminum wire	<a href="#">UPL-DM-12</a>	<a href="#">UPL-DF-12</a>
	Diameter	0.189 in   4.80 mm	<a href="#">UPL-4MT-12</a>	<a href="#">UPL-4F-12</a>
Dielectric	Material	PE spine, low smoke	<a href="#">UPL-NM-12</a>	<a href="#">UPL-NF-12</a>
	Diameter	0.480 in   12.20 mm	<a href="#">UPL-2MT-12-01</a>	
Outer conductor	Material	Ring corrugated copper	<a href="#">UPL-4MP-12</a>	
	Diameter	0.543 in   13.80 mm	<a href="#">UPL-DRA-12</a>	
Jacket	Material	PVC, plenum rated, white; IEC-60332-3-24	<a href="#">UPL-4RT-12</a>	
	Diameter	0.630 in   16.00 mm	<a href="#">UPL-NRA-12</a>	

Mechanical	
Cable weight	0.18 lb/ft   0.27 kg/m
Single minimum bending radius	2.8 in   70 mm
Multiple minimum bending radius	4.9 in   125 mm
Tensile force	253 lb   1130 N
Bending moment	11.36 lbf-ft   15.4 Nm
Flat plate crush strength	112 lb/in   2 kg/mm
Recommended clamp spacing	3.3 ft   1 m

Environmental	
Fire retardancy	NFPA 262/CATVP/CMP
Regulatory compliance	UL444, CSA C.22.2
Storage temperature	-4 °F to +176 °F   -20 °C to +80 °C
Installation temperature	-4 °F to +140 °F   -20 °C to +60 °C
Operation temperature	-4 °F to +176 °F   -20 °C to +80 °C

Electrical properties	
Impedance	50 ± 1.0 Ω
Dynamic PIM (dBc)	> -160 minimum
Nominal capacitance, pF/m	76
Inductance, mH/m	0.19
Propagation velocity	0.88
DC resistance, IC	0.45 Ω/kft   1.48 Ω/km
DC resistance, OC	0.82 Ω/kft   2.69 Ω/km
DC test voltage, kV	4.0
Peak power, kW	40
Insulation resistance	≥ 100,000 MΩkm
Screening attenuation, dB	>120
Max operating frequency, GHz	8.8



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## 1/2" Annular Plenum Coaxial Cable

Frequency (MHz)	VSWR
617-960	≤ -30 (1.065)
1700-2200	≤ -30 (1.065)
2200-2700	≤ -28 (1.083)
3400-4200	≤ -23 (1.152)
5150-5925	≤ -22 (1.173)

Attenuation and average power*					
Frequency (MHz)	Nominal attenuation, @ 20 °C (dB/100m)	Power rate @ 40 °C (kW)	Frequency (MHz)	Nominal attenuation, @ 20 °C (dB/100m)	Power rate @ 40 °C (kW)
1	0.213	36.180	3900	17.967	0.460
1.5	0.271	29.510	4000	18.316	0.450
2	0.313	25.540	4100	18.621	0.446
10	0.688	11.340	4200	18.964	0.441
20	0.965	7.970	5000	21.611	0.400
30	1.186	6.480	6000	25.178	0.350
50	1.69	4.990			
85	2.163	3.790			
88	2.218	3.730			
100	2.341	3.490			
108	2.435	3.350			
150	2.853	2.820			
174	3.052	2.610			
200	3.273	2.420			
204	3.31	2.400			
300	4.018	1.950			
400	4.667	1.680			
450	4.952	1.570			
460	4.998	1.550			
500	5.238	1.480			
512	5.296	1.470			
600	5.771	1.340			
650	6.013	1.372			
700	6.262	1.304			
750	6.493	1.229			
800	6.739	1.150			
824	6.857	1.135			
894	7.174	1.089			
960	7.452	1.040			
1700	10.359	0.780			
1794	10.717	0.733			
1800	10.73	0.730			
2000	11.458	0.680			
2100	11.806	0.666			
2200	12.149	0.650			
2300	12.524	0.634			
2500	13.198	0.600			
2700	13.893	0.578			
3000	14.911	0.540			
3400	16.301	0.508			
3600	16.962	0.490			
3700	17.293	0.480			
3800	17.661	0.470			

\* Note: Attenuation specifications are measured by free space method according to IEC61196.4-204. Maximum attenuation value shall be 105% of the nominal attenuation value.

04/17/25