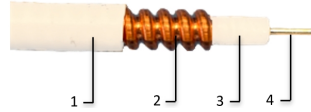


# JMA14SP-50

## 1/4" Superflexible Plenum Coaxial Cable



1: Jacket	2: Outer conductor	3. Dielectric	4. Inner conductor
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Contact technical support:  
1-888-201-6073

[techsupport@jmawireless.com](mailto:techsupport@jmawireless.com)

Available options	Length (ft)	Packaging type
JMA14SP-50-1000	1,000	Lightweight 22" spool
JMA14SP-50-1640	1,640	Lightweight 22" spool

Construction			Associated Connectors	
Inner conductor	Material	Copper clad aluminum wire	<a href="#">UXP-DM-14S</a>	<a href="#">UXP-NRA-14S</a>
	Diameter	0.075 in   1.91 mm	<a href="#">UXP-4MT-14S</a>	<a href="#">UXP-DF-14S</a>
Dielectric	Material	Physically foamed PE, low smoke	<a href="#">UXP-NM-14S</a>	<a href="#">UXP-4F-14S</a>
	Diameter	0.205 in   5.21 mm	<a href="#">UXP-2MT-14S-01</a>	<a href="#">UXP-NF-14S</a>
Outer conductor	Material	Helical corrugated copper	<a href="#">UXP-1MT-14S</a>	<a href="#">UXP-4MP-14S</a>
	Diameter	0.255 in   6.48 mm	<a href="#">UXP-1RT-14S-01</a>	<a href="#">UXP-2RT-14S-01</a>
Jacket	Material	PVC, plenum rated, white; IEC-60332-3-24	<a href="#">UXP-DRA-14S-01</a>	
	Diameter	0.290 in   7.37 mm	<a href="#">UXP-4RT-14S</a>	

Mechanical	
Cable weight	0.074 lb/ft   0.11 kg/m
Single minimum bending radius	0.984 in   25 mm
Multiple minimum bending radius	1.18 in   30 mm
Tensile force	204 lb   910 N
Bending moment	7 lbf-in   0.8 Nm
Flat plate crush strength	100 lb/in   1.8 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	+23 °F to +140 °F   -5 °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)	≥ -155, > -160 typ.
Nominal capacitance, pF/m	75.5
Inductance, mH/m	1.19
Propagation velocity	84
DC resistance, IC	3.0 Ω/kft   9.834 Ω/km
DC resistance, OC	2.0 Ω/kft   6.562 Ω/km
DC test voltage, kV	2.2
Peak power, kW	6.0
Insulation resistance	≥ 100,000 MΩkm
Screening attenuation, dB	>120
Max operating frequency, GHz	20



Frequency (MHz)	VSWR
617-960	≤ -28 (1.083)
1700-2200	≤ -28 (1.083)
2200-2700	≤ -27 (1.094)
3400-4200	≤ -23 (1.152)
5150-5925	≤ -20 (1.222)

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	0.590	6.400	3900	40.071	0.106
1.5	0.710	6.400	4000	40.603	0.105
2	0.799	6.100	4100	41.372	0.103
10	1.685	2.312	4200	41.996	0.102
20	2.399	1.632	5000	47.223	0.092
30	2.942	1.326	6000	53.225	0.083
50	3.986	1.029			
85	5.168	0.798			
88	5.264	0.771			
100	5.590	0.723			
108	5.785	0.694			
150	6.892	0.587			
174	7.364	0.544			
200	7.896	0.507			
204	7.984	0.504			
300	9.704	0.411			
400	11.237	0.354			
450	11.962	0.334			
460	12.067	0.331			
500	12.601	0.316			
512	12.762	0.312			
600	13.886	0.287			
650	14.478	0.277			
700	15.052	0.265			
750	15.605	0.273			
800	16.156	0.247			
824	16.428	0.243			
894	17.152	0.233			
960	17.819	0.224			
1700	24.390	0.166			
1794	25.153	0.161			
1800	25.170	0.161			
2000	26.771	0.152			
2100	27.521	0.148			
2200	28.257	0.145			
2300	28.984	0.141			
2500	30.487	0.137			
2700	31.899	0.131			
3000	34.031	0.122			
3400	36.735	0.114			
3600	38.074	0.111			
3700	38.810	0.110			
3800	39.337	0.108			

\* 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.

