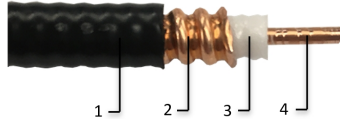




# JMA14S-50

## 1/4" Superflexible Coaxial Cable



1: Jacket	2: Outer conductor	3: Dielectric	4: Inner conductor
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Contact technical support:  
1-888-201-6073  
[techsupport@jmwireless.com](mailto:techsupport@jmwireless.com)

Available options	Length (ft)	Packaging type
JMA14S-50-1000	1,000	Lightweight 22" spool
JMA14S-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	<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	PE, outdoor rated, black	<a href="#">UXP-DRA-14S-01</a>	
	Diameter	0.290 in   7.40 mm	<a href="#">UXP-4RT-14S</a>	

Mechanical	
Cable weight	0.040 lb/ft   0.060 kg/m
Single minimum bending radius	0.984 in   25 mm
Multiple minimum bending radius	0.984 in   25 mm
Tensile force	153 lb   680 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	
Storage temperature	-94 °F to +185 °F   -70 °C to +85 °C
Installation temperature	-40 °F to +140 °F   -40 °C to +60 °C
Operation temperature	-67 °F to +185 °F   -55 °C to +85 °C

Electrical properties	
Impedance	50 ± 1.0 Ω
Dynamic PIM (dBc)	> -160 minimum
Nominal capacitance, pF/m	79.4
Inductance, mH/m	0.2
Propagation velocity	0.84
DC resistance, IC	3.0 Ω/kft   9.843 Ω/km
DC resistance, OC	2.2 Ω/kft   7.216 Ω/km
DC test voltage, kV	1.6
Peak power, kW	6.4
Insulation resistance	≥ 100,000 MΩkm
Screening attenuation, dB	>120
Max operating frequency, GHz	20.4

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	0.595	6.400	3900	37.894	0.177
1.5	0.706	6.400	4000	38.452	0.174
2	0.801	6.400	4100	38.971	0.172
10	1.725	3.970	4200	39.426	0.170
20	2.452	2.800	5000	43.46	0.153
30	3.003	2.280	6000	48.258	0.138
50	4.052	1.760			
85	5.238	1.367			
88	5.336	1.320			
100	5.688	1.230			
108	5.921	1.190			
150	6.94	1.000			
174	7.505	0.929			
200	8.018	0.865			
204	8.123	0.861			
300	9.86	0.701			
400	11.383	0.603			
450	12.13	0.567			
460	12.24	0.561			
500	12.763	0.537			
512	12.95	0.530			
600	14.028	0.488			
650	14.632	0.428			
700	15.195	0.450			
750	15.753	0.435			
800	16.725	0.419			
824	16.538	0.412			
894	17.302	0.395			
960	17.93	0.380			
1700	24.183	0.279			
1794	24.898	0.271			
1800	24.97	0.271			
2000	26.386	0.256			
2100	27.106	0.249			
2200	27.753	0.243			
2300	28.462	0.237			
2500	29.763	0.229			
2700	31.025	0.220			
3000	32.903	0.204			
3400	35.133	0.191			
3600	36.309	0.186			
3700	36.817	0.183			
3800	37.415	0.180			

\* 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.