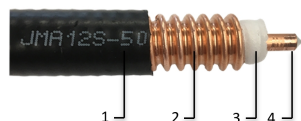


# JMA12S-50

## 1/2" Superflexible 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
JMA12S-50-500	500	Lightweight 22" spool
JMA12S-50-1640	1,640	Standard 28" spool

Construction			Associated Connectors	
Inner conductor	Material	Copper clad aluminum wire	<a href="#">UXP-DM-12S</a>	<a href="#">UXP-DF-12S</a>
	Diameter	0.142 in   3.60 mm	<a href="#">UXP-4MT-12S</a>	<a href="#">UXP-4F-12S</a>
Dielectric	Material	Physically foamed PE	<a href="#">UXP-NM-12S</a>	<a href="#">UXP-NF-12S</a>
	Diameter	0.362 in   9.20 mm	<a href="#">UXP-MDM-12S</a>	<a href="#">UXP-4MP-12S</a>
Outer conductor	Material	Helical corrugated copper	<a href="#">UXP-DRA-12S</a>	
	Diameter	0.472 in   12.00 mm	<a href="#">UXP-4RT-12S</a>	
Jacket	Material	PE, outdoor rated, black	<a href="#">UXP-NRA-12S</a>	
	Diameter	0.530 in   13.46 mm	<a href="#">UXP-MRA-12S</a>	

Mechanical	
Cable weight	0.118 lb/ft   0.176 kg/m
Single minimum bending radius	0.98 in   25 mm
Multiple minimum bending radius	1.18 in   30 mm
Tensile force, minimum	247 lb   1100 N
Bending moment	4.8 lbf-ft   6.5 Nm
Flat plate crush strength	112 lb/in   2 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	82
Inductance, mH/m	0.20
Propagation velocity	0.81
DC resistance, IC	0.82 Ω/kft   2.69 Ω/km
DC resistance, OC	1.56 Ω/kft   5.12 Ω/km
DC test voltage	2.5
Peak power, kW	15.6
Insulation resistance, MΩkm	≥ 100,000
Screening attenuation, dB	>120
Max operating frequency, GHz	10.2

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	0.312	22.732	3900	23.661	0.339
1.5	0.383	19.271	4000	24.011	0.334
2	0.437	17.015	4100	24.347	0.330
10	1.04	7.963	4200	24.63	0.325
20	1.408	5.646	5000	27.279	0.293
30	1.73	4.606	6000	30.401	0.262
50	2.405	3.556			
85	3.106	2.711			
88	3.164	2.663			
100	3.41	2.494			
108	3.55	2.397			
150	4.142	2.022			
174	4.56	1.872			
200	4.793	1.740			
204	4.826	1.722			
300	5.868	1.407			
400	6.814	1.208			
450	7.25	1.134			
460	7.344	1.121			
500	7.652	1.072			
512	8.15	1.058			
600	8.426	0.972			
650	8.808	0.931			
700	9.152	0.894			
750	9.491	0.861			
800	9.835	0.831			
824	10.61	0.818			
894	11.1	0.783			
960	11.56	0.753			
1700	14.813	0.548			
1794	15.258	0.531			
1800	15.267	0.530			
2000	16.811	0.500			
2100	16.651	0.486			
2200	17.085	0.473			
2300	17.501	0.461			
2500	18.305	0.440			
2700	19.214	0.421			
3000	20.337	0.396			
3400	21.86	0.368			
3600	22.572	0.356			
3700	22.891	0.350			
3800	23.295	0.345			

\* 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.