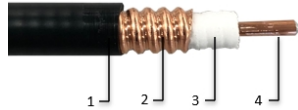




JMA38S-50

3/8" 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@jmawireless.com

Available options	Length (ft)	Packaging type
JMA38S-50-500	500	Lightweight 22" spool
JMA38S-50-1640	1,640	Standard 28" spool

Construction			Associated Connectors	
Inner conductor	Material	Copper clad aluminum wire	UXP-4MT-38S-01	
	Diameter	0.1285 in 3.26 mm		
Dielectric	Material	Physically foamed PE		
	Diameter	0.329 in 8.36 mm		
Outer conductor	Material	Helical corrugated copper		
	Diameter	0.394 in 10.00 mm		
Jacket	Material	PE, outdoor rated, black		
	Diameter	0.445 in 11.3 mm		

Mechanical	
Cable weight	0.080 lb/ft 0.119 kg/m
Single minimum bending radius	1.0 in 25.4 mm
Multiple minimum bending radius	1.0 in 25.4 mm
Tensile force, minimum	209 lb 930 N
Bending moment	20.4 lbf-in 2.3 Nm
Flat plate crush strength	100.8 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	79.7
Inductance, mH/m	0.20
Propagation velocity	0.83
DC resistance, IC	1.29 Ω/kft 4.232 Ω/km
DC resistance, OC	1.52 Ω/kft 4.987 Ω/km
DC test voltage, V	2300
Peak power, kW	13.2
Insulation resistance, MΩkm	≥ 100,000
Screening attenuation, dB	>120
Max operating frequency, GHz	13.4



JMA38S-50

3/8" Superflexible Coaxial Cable

Frequency (MHz)	VSWR
617-960	≤ -34 (1.04)
1700-2200	≤ -32 (1.05)
2200-2700	≤ -29 (1.07)
3400-4200	≤ -23 (1.15)
5150-5925	≤ -21 (1.20)

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	0.354	13.2	3900	23.619	0.3
1.5	0.435	13.2	4000	23.925	0.29
2	0.503	13.2	4100	24.227	0.29
10	1.140	6.97	4200	24.525	0.28
20	1.622	4.91	5000	26.797	0.26
30	1.992	3.99	6000	29.397	0.23
50	2.583	3.08			
85	3.382	2.34			
88	3.442	2.3			
100	3.673	2.16			
108	3.819	2.07			
150	4.513	1.75			
174	4.866	1.62			
200	5.223	1.5			
204	5.276	1.49			
300	6.418	1.22			
400	7.428	1.04			
450	7.886	0.98			
460	7.974	0.97			
500	8.319	0.93			
512	8.420	0.92			
600	9.126	0.84			
650	9.505	0.81			
700	9.870	0.77			
750	10.222	0.75			
800	10.563	0.72			
824	10.722	0.71			
894	11.176	0.68			
960	11.588	0.65			
1700	15.491	0.48			
1794	15.920	0.46			
1800	15.947	0.46			
2000	16.824	0.43			
2100	17.246	0.42			
2200	17.659	0.41			
2300	18.062	0.4			
2500	18.843	0.38			
2700	19.595	0.37			
3000	20.672	0.34			
3400	22.029	0.32			
3600	22.678	0.31			
3700	22.996	0.3			
3800	23.310	0.3			

* 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.

08/03/22