



JMA12R-50

1/2" Annular Coaxial Cable, CPR Rated



1: Jacket	2: Outer conductor	3. Dielectric	4. Inner conductor
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Contact technical support:

1-888-201-6073

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Available options	Length (ft)	Packaging type
JMA12R-50-1312	1,312	Standard 28" spool

Construction			Associated connectors	
Inner conductor	Material	Copper clad aluminum wire	UXP-DM-12	UXP-DF-12
	Diameter	0.189 in 4.80 mm	UXP-4MT-12	UXP-4F-12
Dielectric	Material	Physically foamed PE	UXP-NM-12	UXP-NF-12
	Diameter	0.480 in 12.20 mm	UXP-2MT-12-01	
Outer conductor	Material	Ring corrugated copper	UXP-4MP-12	
	Diameter	0.543 in 13.80 mm	UXP-DRA-12	
Jacket	Material	PE, flame-retardant, black	UXP-4RT-12	
	Diameter	0.630 in 16.00 mm	UXP-NRA-12	

Mechanical	
Cable weight	0.148 lb/ft 0.22 kg/m
Single minimum bending radius	2.8 in 70 mm
Multiple minimum bending radius	4.9 in 125 mm
Tensile force, minimum	253 lb 1130 N
Bending moment	4.79 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	-22 °F to +176 °F -30 °C to +80 °C
Installation temperature	-13 °F to +140 °F -25 °C to +60 °C
Operation temperature	-22 °F to +176 °F -30 °C to +80 °C
Smoke density	IEC 61034
Halogen test	IEC 60754-2
EN 50575(CPR)	B2ca
Flame retardant	IEC 60332-1-2, IEC 60332-3-24, UL 1666
2011/65/EU(ROHS)	Compliant
Low Smoke Zero Halogen (LSZH)	Compliant. See Smoke density, Halogen, and Flame retardant specifications

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, MΩkm	≥ 100,000
Screening attenuation, dB	>120
Max operating frequency, GHz	8.8



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	0.211	33.723	3900	15.55	0.559
1.5	0.259	29.068	4000	15.815	0.551
2	0.299	25.900	4100	16.121	0.543
10	0.672	12.440	4200	16.489	0.536
20	0.954	8.863	5000	18.01	0.485
30	1.172	7.246	6000	20.216	0.436
50	1.695	5.608			
85	2.205	4.287			
88	2.208	4.212			
100	2.36	3.947			
108	2.45	3.795			
150	2.87	3.207			
174	3.067	2.972			
200	3.305	2.766			
204	3.31	2.738			
300	4.065	2.241			
400	4.462	1.929			
450	4.759	1.813			
460	5.03	1.792			
500	5.021	1.715			
512	5.085	1.694			
600	5.785	1.558			
650	6.04	1.493			
700	6.27	1.436			
750	6.509	1.384			
800	6.456	1.337			
824	6.56	1.316			
894	6.855	1.260			
960	7.124	1.213			
1700	9.744	0.889			
1794	10.433	0.863			
1800	10.508	0.862			
2000	11.11	0.813			
2100	11.19	0.792			
2200	11.251	0.771			
2300	11.535	0.753			
2500	12.09	0.718			
2700	12.627	0.688			
3000	13.679	0.649			
3400	14.401	0.604			
3600	15.065	0.585			
3700	15.118	0.576			
3800	15.302	0.567			

* 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