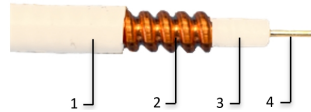


JMA14SP-50

1/4" Superflexible Plenum Coaxial Cable



1: Jacket 2: Outer conductor 3: Dielectric 4: Inner conductor



Contact technical support:
1-888-201-6073
techsupport@jmawireless.com

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

| Construction | | | Associated Connectors | |
|-----------------|----------|---------------------------------|-----------------------------|-----------------------------|
| Inner conductor | Material | Copper clad aluminum wire | UXP-DM-14S | UXP-NRA-14S |
| | Diameter | 0.075 in 1.91 mm | UXP-4MT-14S | UXP-MRA-14S |
| Dielectric | Material | Physically foamed PE, low smoke | UXP-NM-14S | UXP-DF-14S |
| | Diameter | 0.250 in 6.35 mm | UXP-2MT-14S | UXP-4F-14S |
| Outer conductor | Material | Helical corrugated copper | UXP-1MT-14S | UXP-NF-14S |
| | Diameter | 0.255 in 6.48 mm | UXP-MDM-14S | UXP-4MP-14S |
| Jacket | Material | PVC, plenum rated, white | UXP-DRA-14S | |
| | Diameter | 0.290 in 7.37 mm | UXP-4RT-14S | |

| 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.

