## 1/2" Foamed PE Dielectric UV Resistant Coax

# CS-F12UK

### UV Rated 1/2" Coax, Black Jacket, 100ft, 250ft and 500ft

## Electrical Specifications

| Product Model | | CS-F12UAK100 | CS-F12UAK250 | CS-F12UAK500 |
|---|---|---|---|---|
| Spool size | | 100 ft | 250 ft | 500 ft |
| Frequency (MHz) | | | DC-6000 | |
| Impedance (ohm) | | | 50.0 ± 2.0 | |
| Capacitance | | | 76 (pF/m), 23.2 (pF/ft) | |
| Inductance | | | 0.19 (µH/m), 0.058 (µH/ft) | |
| Propagation Velocity (%) | | | 87 | |
| DC Breakdown Voltage (kV) | | | 1950 | |
| Insulation Resistance (MΩ at 20°C) | | | > 10,000 | |
| Peak Power Rating (kW) | | | 40 | |
| Cut-off Frequency (GHz) | | | 6 | |
| VSWR. typical | 100-800MHz | | 1.25 | |
| | 800-2700MHz | | 1.20 | |
| | 3000-4200MHz | | 1.25 | |
| | 4800-5000MHz | | 1.30 | |
| | 5150-5825MHz | | 1.35 | |

## Mechanical Specifications

| | | |
|---|---|---|
| Diameter Over Inner Conductor (in/mm) | | 0.189±0.002 / 4.80±0.05 |
| Diameter Over Insulation (in/mm) | | 0.480±0.008 / 12.20±0.20 |
| Diameter Over Outer Conductor (in/mm) | | 0.547±0.010 / 13.90±0.25 |
| Diameter Over Jacket (in/mm) | | 0.618±0.012/ 15.70±0.30 |
| Minimum Bending Radius-Single (in/mm) | | 2.76 / 70 |
| Minimum Bending Radius-Multiple (in/mm) | | 4.92 / 125 |
| Maximum Tensile Force (N/ lbf) | | 800 / 180 |
| Cable Weight. lb./ft (kg/m) | | 0.12 / 0.18 |
| Shipping Dimension (in/mm) | 100ft Spool | 18.1x18.1x5.1 / 460x460x130 |
| | 250ft Spool | 21.7x21.7x5.1 / 550x550x130 |
| | 500ft Spool | 21.7x21.7x16.8 / 550x550x426 |
| Shipping Weight(lb./kg) | 100ft Spool | 15.4 / 7.0 |
| | 250ft Spool | 35.5 / 16.1 |
| | 500ft Spool | 76.5 /34.7 |

## Material

| | |
|---|---|
| Inner Conductor | Copper Clad Aluminum Wire |
| Insulation | Foam PE |
| Outer Conductor | Ring Corrugated Copper |
| Jacket | PE, Black UV Resistant |
| Hanger Block | HB-F12D (dual, supports 3/8" or M10 threaded rod)<br>HB-F12S (single, supports 3/8" or M10 threaded rod) |
| Prep Tool | AP-F12 (Prep-tool), FL-F12(Flaring tool), BL-F12 (Blades)<br>TL-F12(Tool kit included AP-F12, FL-F12 and hard case) |
| Associated Connectors | CN-NM-F12: N-Male / CN-NF-F12: N-Female<br>CN-4M-F12: 4.3-10-Male / CN-4F-F12: 4.3-10-Female |
| Associated Mounting Clip | CCL-F12S |

## Environment

| | |
|---|---|
| Application | Indoor / Outdoor |
| Storage Temperature | -55°C to +85°C |
| Operating Temperature | -40°C to +85°C |
| Installation Temperature | -25°C to +60°C |

## Compliance & Certification

| | |
|---|---|
| Certification | UV Rated |
| RoHS | Compliant |

## Attenuation

| Frequency (MHz) | Attenuation (dB/100m) | Attenuation (dB/100ft) | Frequency (MHz) | Attenuation (dB/100m) | Attenuation (dB/100ft) |
|---|---|---|---|---|---|
| 50 | 1.33 | 0.40 | 2100 | 11.92 | 3.63 |
| 100 | 1.86 | 0.57 | 2200 | 12.27 | 3.74 |
| 150 | 2.40 | 0.73 | 2300 | 12.61 | 3.84 |
| 174 | 3.09 | 0.94 | 2400 | 12.94 | 3.94 |
| 300 | 3.82 | 1.17 | 2500 | 13.26 | 4.04 |
| 340 | 4.05 | 1.23 | 2600 | 13.58 | 4.14 |
| 400 | 4.39 | 1.34 | 2700 | 13.89 | 4.23 |
| 450 | 4.67 | 1.42 | 2800 | 14.19 | 4.33 |
| 500 | 4.94 | 1.51 | 2900 | 14.49 | 4.42 |
| 600 | 5.47 | 1.67 | 3000 | 14.79 | 4.51 |
| 617 | 5.56 | 1.70 | 3100 | 15.08 | 4.60 |
| 698 | 5.98 | 1.82 | 3200 | 15.37 | 4.68 |
| 800 | 6.5 | 1.98 | 3300 | 15.65 | 4.77 |
| 894 | 6.96 | 2.12 | 3550 | 16.35 | 4.98 |
| 960 | 7.27 | 2.22 | 3600 | 16.49 | 5.03 |
| 1000 | 7.46 | 2.27 | 3700 | 16.77 | 5.11 |
| 1200 | 8.38 | 2.55 | 3800 | 17.04 | 5.19 |
| 1400 | 9.24 | 2.82 | 3900 | 17.32 | 5.28 |
| 1500 | 9.65 | 2.94 | 4000 | 17.59 | 5.36 |
| 1698 | 10.44 | 3.18 | 4100 | 17.86 | 5.44 |
| 1700 | 10.45 | 3.18 | 4200 | 18.14 | 5.53 |
| 1800 | 10.83 | 3.30 | 5000 | 20.42 | 6.22 |
| 1900 | 11.20 | 3.41 | 5500 | 21.99 | 6.70 |
| 2000 | 11.57 | 3.53 | 6000 | 23.74 | 7.23 |

Note: Typical attenuation at an ambient temperature +20°C (68°F)