*N 50Ω*

## CHARACTERISTICS

| TEST / CHARACTERISTICS | STANDARD REFERENCE | VALUES / REMARKS |
|---|---|---|

### ELECTRICAL CHARACTERISTICS

| | | | | | | |
|---|---|---|---|---|---|---|
| **Impedance** | - | 50Ω | | | | |
| **Frequency Range** | - | DC - 11 GHz | | | | |
| **Typical V.S.W.R.** **Frequency** | - | 1 GHz | 2.5 GHz | 5 GHz | 11 GHz | |
| **• Straight Models Cable Group:** **.085"** | - | 1.03 | 1.03 | 1.05 | 1.08 | |
| **.141"** | - | 1.03 | 1.05 | 1.05 | 1.08 | |
| **.250"** | - | 1.03 | 1.03 | 1.05 | 1.07 | |
| **5/S+5/D** | - | 1.05 | 1.06 | 1.1 | 1.16 | |
| **10/S+11/D** | - | 1.04 | 1.05 | 1.09 | 1.2 | |
| **• Right Angle Models:** **5/S+D** | - | 1.04 | 1.05 | 1.18 | | |
| **10/S+11/D** | - | 1.04 | 1.1 | 1.20 | | |
| **Intermodulation product ($IMP_3$)** | - | | | | | |
| **• Standard Connectors** | - | - 90 dBm typ. (- 133 dBc typ. / 20W) | | | | |
| **• Intermodulation Connectors** | - | - 110 dBm typ. (- 153 dBc typ / 20W) | | | | |
| **• Home Made Intermodulation Cable Assemblies** | - | - 125 dBm typ. (- 165 dBc typ. / 20W) | | | | |
| **Insertion Loss** | MIL | | | | | |
| **• Straight Connector** | MIL | < 0.15 dB max at 10 GHz ~ < 0.05 √F (GHz) | | | | |
| **• Right-Angle Connector** | MIL | < 0.15 dB max at 10 GHz ~ < 0.1 √F (GHz) | | | | |
| **RF Leakage** | MIL | -90 dB min from 2 to 3 GHz (Interface) | | | | |
| **Insulation Resistance** | MIL | 5000 MΩ min | | | | |
| **Contact Resistance** | MIL | Initial | | After Tests | | |
| **• Center Contact** | MIL | 1 mΩ | | 1.5 mΩ | | |
| **• Outer Contact** | MIL | 0.2 mΩ | | - | | |
| **Working Voltage in VRMS** | CECC | Cable 5/50: | | 850 | (250) | |
| **• At Sea Level** | CECC | Cable .085"/.141": | | 350 | (250) | |
| **(at 70,000 feet)** | CECC | Cable 10+11/50: | | 1400 | (400) | |
| | CECC | Cable LMR 400/600: | | 1400 | (400) | |
| | CECC | Cable .250": | | 1400 | (400) | |
| **Dielectric Withstanding Voltage in VRMS** | CECC | Cable 5/50: | | 1500 | (350) | |
| **• At Sea Level** | CECC | Cable .085"/.141": | | 1000 | (350) | |
| **(at 70,000 feet)** | CECC | Cable 10/50: | | 2500 | (600) | |
| | CECC | Cable LMR 400/600: | | 2500 | (600) | |
| | CECC | Cable .250": | | 2500 | (600) | |
| **RF Testing Voltage** **Sea Level** | CECC | 1500 VRMS (5 MHz Sine Wave) | | | | |

### MECHANICAL CHARACTERISTICS

| | | | | |
|---|---|---|---|---|
| **Durability** | CECC | 500 Matings | | |
| **Engagement and Separation Torque** | CECC | 6.6 Ncm max (.58 Inch-pounds) | | |
| **Recommended Coupling Nut Torque** | - | 40 to 60 Ncm (Manual)<br>130 Ncm (11.45 inch pounds) (with Pliers R 282 202 000)<br>170 Ncm (14.96 inch pounds) (with Torque Wrench R 282 303 020) | | |
| **Proof Torque** | CECC | 170 Ncm (14.96 inch pounds) | | |
| **Coupling Nut Retention Force** | CECC | 450 N (101.25 Lbs) | | |
| **Cable Retention Force** | CECC | Cable 5/50/S<br>Cable 5/50/D<br>Cable 10/50<br>Cable 11/50<br>Cable .141" | 150N<br>200N<br>300N<br>400N<br>270N | (33.75 Lbs)<br>(48 Lbs)<br>(67.5 Lbs)<br>(90 Lbs)<br>(60.75 Lbs) |
| **Center Contact Retention Force** **Axial** | MIL | 27 N (6.08 Lbs) Cables < Ø 8 mm<br>68 N (15.30 Lbs) Cables > Ø 8 mm | | |

*Notes*
*Standard packaging = 50 pieces*