

# UPL-4F-12



## UPL-4F-12 DATA SHEET

### 4.3–10 Female Connector for 1/2” Plenum Cables

| Mechanical                                | Specification  | Comment                                   |
|---|--|---|
| Pull Force Combined                       | > 200 lbs   .89 kN   | Cable limited                             |
| Cable/Connector Torque                    | 5 ft-lbs   6.7 N-m   | Cable limited                             |
| Interface Durability                      | 50 Cycles  |   |
| Electrical                                | Specification  | Comment                                   |
| Frequency Range                           | DC to 6 GHz  |   |
| Impedance                                 | 50Ω Nominal  |   |
| Average Return Loss (VSWR) DTF            | > -40dB (1.02) 0–1 GHz, > -36dB (1.03) 1–2 GHz, > -32dB (1.05) 2–4 GHz, -28dB (1.08) 4–6 GHz | As per Anatel 75                          |
| Insertion Loss                            | < .1√F(GHz)  |   |
| 3rd Order IMD                             | -153 dBc minimum, -160 dBc typical   | As per IEC 62037-2, -3                    |
| Voltage Withstand                         | > 3.0 kV   |   |
| Shielding Effectiveness                   | < -120dB   | 0–1 GHz                                   |
| Insulation Resistance                     | 10GΩ initial, 100MΩ after conditioning   |   |
| Environmental                             | Specification  | Comment                                   |
| Operating Temperature/Storage Temperature | -55°C to +85°C / -55°C to +85°C  |   |
| Interface Moisture                        | No leakage, mated or unmated > 1.0 Bar   |   |
| Moisture Ingress                          | No leakage   | ANSI/SCTE60 2004, IP-67, IP-68, IEC 60529 |
| Corrosion Resistance                      | 1000 Hours   |   |
| H.A.L.T.                                  | 40 Hours   |   |
| General                                   | Specification  | Comment                                   |
| Cable Supported                           | Andrew HL4RP-50A, HL4RPV-50, AL4PRV-50, RFS ICA12-50JPL, HCA12-50JPL, ICA12-50JPLW           |   |
| Weight                                    | 0.267 lbs.   121.1 g   |   |
| WPS Weather Protection                    | WPS-N-4A   |   |
| Length                                    | 2.797 in   71.0 mm, 2.382 in   60.5 mm   |   |
| Outer Diameter                            | 1.040 in   26.4 mm   |   |
| Hex Width                                 | 984 in   25 mm   |   |
| Tools                                     | Specification  | Comment                                   |
| Cable Preparation                         | SP-12PL  | Bit “PL”, all cables                      |
| Connector Compression                     | HCG-FRAMESET-1/2, HCG-CC   | Insert D                                  |
| Torque Wrench                             | TQ-78-F8   | 8 ft-lbs   10.8 N-m                       |

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