CommScope's high-performance F connectors are designed for demanding digital applications where a high-quality, high-performance F connector is required. These connectors provide superior return loss (-30 dB to 3 GHz) and are the perfect choice for use in digital headends, satellite down links, and high-performance customer premises applications.

Features

- All-crimp two-piece design goes together the same as a BNC
- Combines the superior electrical performance of a BNC with the superior RF performance of an F connector
- True 75 Ω design for performance up to 3 GHz
- Crimp-on center pin provides outstanding connection rather than relying on the copper center conductor of the cable
- Gold-plated locking center pin just like a BNC connector
- Diamond-knurled crimp hub and long .500" crimp sleeve provides higher pull-off force than typical F connector types



Electrical

Characteristic Impedance: Voltage Rating: Insertion Loss: Return Loss: Contact Resistance: Insulation Resistance: Mechanical Mechanical Durability: Center Contact Retention: Coupling Mechanism: Cable Pulloff Force: Cable Bend and Twist: Coupling Nut Proof Torque:

Coupling Nut Proof Tord Interface Dimension: Environmental

Thermal Shock:

Moisture Resistance: Corrosion (Salt Spray): Flammability: Vibration: Solvent Resistance: Finish Body:

Center Conductor:

75 Ω 1000 Volts RMS < 0.6 dB 1 MHz to 1 GHz (measured with 1 meter of 728 cable) Better than 35 dB to 1 GHz; 30 dB to 2 GHz; 26 dB to 3 GHz .030 Ω maximum change post environmental 200 M Ω minimum change

500 cycles minimum 6 lbs. min 80 lbs. min Dependent on cable size 500 cycles min Torque 20 in/lb min See interface detail below

-40° C to 35° C operating; -55° C to 85° C, non-operating 0% to 95%; MIL-STD-202 Method 106 MIL-STD-202 Method 101, Test Condition B UL 94-VO rated (center conductor insulator) MIL-STD-202 Method 201 MIL-STD-202 Method 215

Tarnish-resistant electroless nickel plating 50 millionths inch gold plating MIL-G-45204 Type 1, Grade C, Class 1; requires .042" crimp station die



- Long 3/8" wrench flats make connector threading easier
- Precision machined parts for greater unit to unit consistency
- Exclusive molded center conductor insulator provides a truer impedance match over PVC and Teflon types
- Same strip and crimp dimensions as our standard BNC plugs, common tooling
- Cable sizes for RG59, RG187, and RG6 available
- Termination plugs in 1% and precision 0.1% available