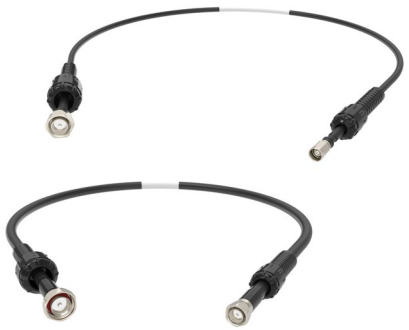
DATASHEET

Corrugated RF Jumper Cables ›



Corrugated RF Jumper Cables provide high-quality signal transmission with minimal loss, enabling efficient and reliable transmission for wireless communication and radio systems. The shielded corrugated cable design improves signal integrity, while enhanced cable construction enables a high degree of flexibility and resilience, delivering long-term reliability in harsh outdoor environments.

ADVANTAGES AND FEATURES

Delivers exceptional signal integrity
The corrugated construction reduces signal loss, interference and passive intermodulation (PIM), maintaining superior signal quality.

Simplifies and accelerates installation
Flexible cable construction makes routing easier, reducing installation time and improving efficiency for network deployments.

Improves design flexibility
A variety of available connectors, cable sizes and frequency ranges allows users to meet specific application demands and minimizes design time.

Reduces maintenance costs
Resilient design and robust materials minimize the need for maintenance, reducing the total cost of ownership.

Frequency Range	380 MHz to 6 GHz
Peak Power Rating	40kW
Cable Sizes	1/4" (6.4mm), 3/8" (15.9mm), 1/2" (12.7mm) helical; 1/2" (12.7mm) annular
Connector Types	7/16 DIN, 4.3-10, NEX10, N-Type, 2.2-5
Impedance	50 Ohms ± 1 Ohm
Operating Temperatures	-40 to +85°C

Ensures reliable operation in demanding environments
Rugged materials permit the cables to withstand temperature fluctuations, moisture and physical stress, reducing the risk of a shortened product lifespan.

Withstands water exposure in outdoor applications
Available weatherproof boots provide additional water ingress protection at the connector after the cable has been installed, minimizing connection failures and corrosion.

MARKETS AND APPLICATIONS

Telecommunications
AM/FM radio systems
Tower-based communications systems
Wireless telecommunications equipment

Wireless Infrastructure
Distributed antenna systems
Public-safety/land mobile radio devices

Tower-Based Communications Systems

Distributed Antenna Systems

Wireless Telecommunications Equipment

DATASHEET

Corrugated RF Jumper Cables ›

SPECIFICATIONS

Reference Information

Packaging: Individual bag
Designed in: Inches
RoHS: Yes
Halogen Free: Yes
Seal Rating: IP68

Physical

Boot: Silicone rubber, black
Installation Temperatures: -25 to +60°C
Operating Temperatures: -40 to +85°C

Mechanical

Connectors: 7/16 DIN, 4.3-10, NEX10, N-Type, 2.2-5
Connector Configurations: Straight, right angle
Cable: 1/4" (6.4mm), 3/8" (15.9mm), 1/2" (12.7mm) helical; 1/2" (12.7mm) annular
Weight (approx.): 71kg/km (1/4" cable), 115kg/km (3/8" cable), 167kg/km (1/2" helical cable), 224kg/km (1/2" annular cable)
Installation Bending Radius (min.): 13mm (1/4" helical cable), 20mm (3/8" helical cable), 35mm (1/2" helical cable), 75mm (1/2" annular cable)
Operating Bending Radius (min.): 25mm (1/4" helical cable), 50mm (3/8" helical cable), 70mm (1/2" helical cable), 150mm (1/2" annular cable)
Tensile Strength (max.): 500 to 1,100N
Flat Plate Crush Strength: 50 to 110 lbs/in (0.87 to 19.2 kN/m)

Electrical

Peak Power Rating: 40kW
Test Voltage (max.): 2,500V DC
Impedance: 50 Ohms ± 1 Ohm
Velocity of Propagation: 83 to 87%
Capacitance: 76.5 to 83 ± 1.5 pF/M
PIM3 (2x20W): ≤155 to 160 dBc @ 1,800 to 1,900 MHz
DC Resistance: <1.60 to 9.78 Ohms/km (inner conductor), <2.16 to 6.90 Ohms/km (outer conductor)
Insulation Resistance: 10,000 Megohms/km
Return Loss (dB):
≤32 (380 to 960 MHz)
≤26 to 28 (960 MHz to 2.7 GHz)
≤23 (3.4 to 3.8 GHz)
≤13 to 15 (5.1 to 6.1 GHz)

Order No. 987652-8641 USA/0k/GF/2025.06