AEROSPACE-GRADE

RUGGEDIZED RF, MICROWAVE, AND mmWAVE COAXIAL CABLE ASSEMBLIES

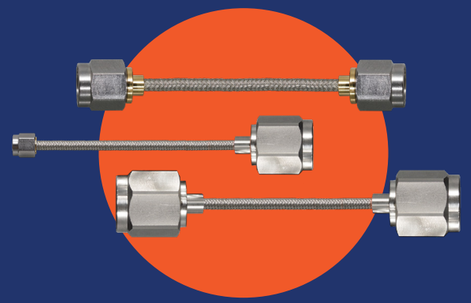
RF

Accurate specification of RF assemblies depends on a thorough understanding of these key variables:

- Operating enviornment (temp, moisture, etc.)
- Operational frequency range
- Insertion Loss budget
- VSWR requirement

Glenair®

50 Ohm Flexible RF Cable Jumpers



SMA 086, SMA 141, SMA-N 141, N-N 141

BLUMARK RF COAX CABLES

Mil/Aero-Grade Flexible RF Cables

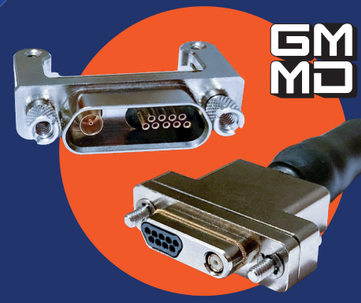
047, 086, 160, 200, 235, 300, 450

RF Connector Accessories

Dummy Receptacles and Protective Covers

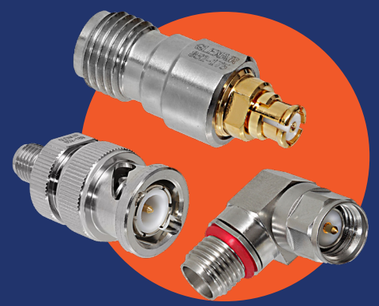
Multi-Port Configuration RF Assemblies: Hand-Formable (left), Rugged Environmental (right)

Glenair GMMD Modular Micro-D



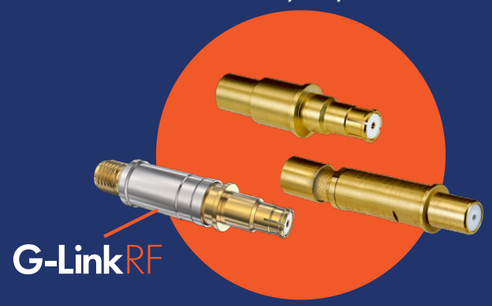
Micro Miniature Board and I/O-to-Board Hybrid Coax Connectors

Precision-Grade RF Connector Adapters



TNC-SMA, N-SMA, SMA-SMA, SMP-SMA, 2.92-SMA, BNC-SMA

Single-Channel RF Connectors for Multi-Port Shell Configurations sizes #8, #12, #16



G-LinkRF

G-LinkRF: 26.5 GHz RF BMB-to-SMA contact adapters

Single-Channel RF Connectors for Multi-Port Shell Configurations sizes #8, #12, #16

G-LinkRF

G-LinkRF: 26.5 GHz RF BMB-to-SMA contact adapters

Rugged, Shielded, Vibration-Resistant Mil-Aero Grade Multi-Port RF Shells

SuperNine, Mighty Mouse, Series 806 RF, and Series 795 RF Multi-Port RF Connector Shells

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BLUMARK RF COAX CABLES 50 Ohm

"Coax cables" are available in size categories including 047, 086, 160, 200, 235, 300 and 450 and are suitable for both flight- and test-grade equipment. "Hand-formable" or tin-soaked designs are intended for non-environmental applications.

047

26.5 GHz
Hand Formable
Tin-Soaked Braid
.047 (1.2) Diameter

086

40 GHz
FEP Jacket
Tape + Braid Shield
.104 (2.6) Diameter

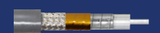
40 GHz
ETFE Jacket
Tape + Braid Shield
.097 (2.5) Diameter

160

40 GHz
FEP Jacket
Triple Shield
.161 (4.1) Diameter

18 GHz
FEP Jacket
Tape + Braid Shield
.163 (4.1) Diameter

18 GHz
ETFE Jacket
Tape + Braid Shield
.163 (4.1) Diameter



18 GHz
ETFE Jacket
Triple Shield
.145 (3.7 Diameter

40 GHz
Low Phase Change
FEP Jacket
.157 (4.0) Diameter

40 GHz
Low Phase Change
ETFE Jacket
.157 (4.0) Diameter

200

26.5 GHz
FEP Jacket
Triple Shield
.204 (5.2) Diameter

26.5 GHz
ETFE Jacket
Triple Shield
.187 (4.7) Diameter

235

18 GHz
FEP Jacket
Triple Shield
.235 (6.0) Diameter

18 GHz
ETFE Jacket
Triple Shield
.205 (5.2) Diameter

300

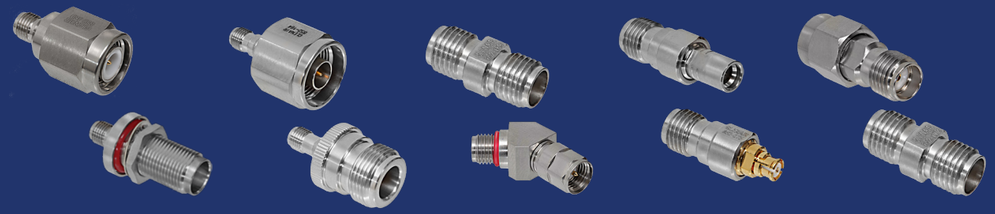
18 GHz
FEP Jacket
Triple Shield
.310 (7.9) Diameter

450

10 GHz
FEP Jacket
Triple Shield
.448 (6.0) Diameter

RF ADAPTERS

RF "connectors" are terminated directly to coax cables. Series 852 RF "adapters" are threaded devices which connect between or within a series.



TNC-SMA adapters

N-SMA adapters

SMA-SMA adapters

SMP-SMA adapters

2.92-SMA adapters

RF CONNECTORS
AKA "Coaxial Contacts"

The RF industry describes these single-channel coaxial pin and socket devices as "connectors." Even when used in a multiport shell, the term "RF connector" will be commonly applied.

SIZE #8
for Sr. 23 SuperNine/ Series 80

50 Ohm 26.5 GHz

75 Ohm 4 GHz

75 Ohm 12 GHz

SIZE #8
for Series 795/ Series 806 RF

50 Ohm 6 GHz

50 Ohm 26.5 GHz

75 Ohm 4 GHz

SIZE #12
for SuperNine Series 795 Series 806 RF

50 Ohm 3 GHz

50 Ohm 40 GHz

75 Ohm 3 GHz

SIZE #16
for SuperNine Series 795 Series 806 RF

50 Ohm 4 GHz

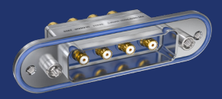
50 Ohm 65 GHz

Multi-Port "HOUSINGS" or "SHELLS"

SuperNine®

SERIES 806 RF MIL-AERO

Rugged, environmentally-protected multi-port "Shells" are connector devices that group coaxial assemblies into a bundle and provide a common ground plane that eliminates EMI radiation through the connector.



SERIES 795 RF

VITA 67.3

50 Ohm Coax RF JUMPERS

Series GRF02 50 Ohm Coax Cable "Jumpers" are COTS, cut-to-length cable assemblies with pre-installed connectors at both ends.

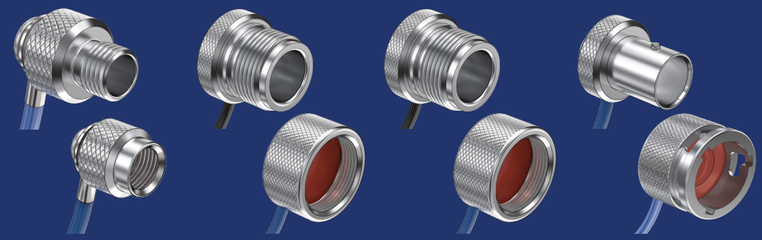
Turnkey series GRF02 50 point-to-point RF jumpers offer excellent flexibility with a bend radius of 6mm or 1/4 in.

G-LinkRF

G-LinkRF is an RF connector adapter with a BMB-style mating interface, and a female SMA back-end interface for easy termination of SMA cables to size #8 BMB mating interface applications.

DUMMY RECEPTACLES and PROTECTIVE COVERS

RF connector accessories include Protective Covers and Dummy Receptacles for standard single-channel RF coax connectors and adapters.



SMA Covers

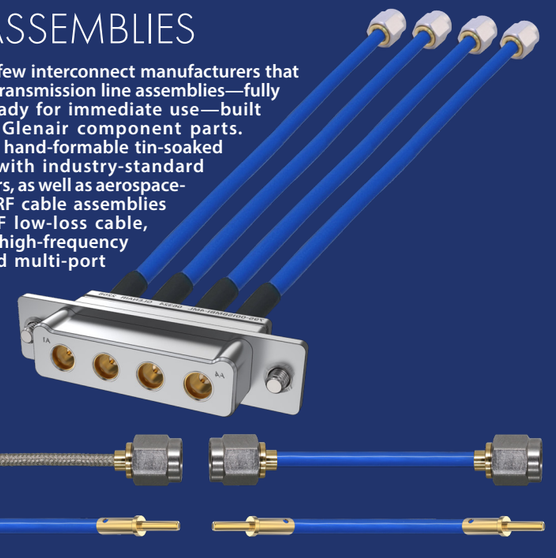
Type N Covers

TNC Covers

BNC Covers

RF CABLE ASSEMBLIES

Glenair is one of just a few interconnect manufacturers that can supply turnkey RF transmission line assemblies—fully connectorized and ready for immediate use—built 100% in-house with Glenair component parts. Configurations include hand-formable tin-soaked RF cable assemblies with industry-standard single-line RF connectors, as well as aerospace-grade environmental RF cable assemblies built with BluMark RF low-loss cable, and Glenair signature high-frequency connectors for rugged multi-port shell configurations.



GMMD

Series GMMD modular Micro-D Coax connectors are supplied in PCB edge-launched, SMT PCB formats, pigtail plug/receptacle assemblies, and inside-the-box jumpers. Coax insert arrangements support up to 16 lines of 50 Ohm coax.

RF LEXICON

Insertion Loss (AKA Attenuation) – The amount of signal loss over a given cable length from the source to the output (expressed in dB).

VSWR (Voltage Standing Wave Ratio) – The value of the reflected energy back to the source (expressed as a ratio).

Return Loss – The measure of energy reflected back to the source (expressed in dB).

Phase Stable (Stability) – The ability of a cable to resist phase change under thermal changes.

Phase Tracking – The ability of two or more cables to stay within phase of each other under thermal changes.

Phase Matching – Adjusting cables during connector termination so that they are within a specified phase with each other.

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