BLUMARK COAX CABLES RF™

BluMark RF Low-Loss 50 Ohm Coax Cables are suitable for aerospace applications and test equipment. Jacket options include FEP and radiation-resistant space-grade ETFE.

BluMark RF high-frequency, low-loss cables are available in eight size categories: 047, 086, 141, 130, 160, 200, 235, and 300. Standard jacket material is FEP. Radiation-resistant ETFE jacketing is also available for space applications. Triple-shielded high-performance cables have expanded PTFE dielectric core for low loss up to 40 GHz. Application selection is based on attenuation (loss budget), and compatibility with a particular RF / microwave connector type and size, as well as flexibility, EMI screening, weight considerations, temperature tolerance, and altitude.

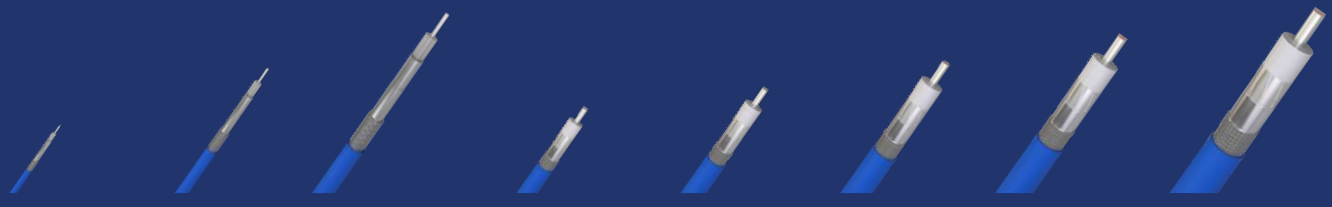
Temperature changes can cause phase shift in coax cables with PTFE dielectric cores. Low Phase Change Fluoropolymer (LPCF) cables are available from Glenair that replace the PTFE core with a fluoropolymer material yielding improved phase stability over a wide temperature range.

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 multipin RF cable assemblies with industry-standard single-line RF connectors built around BluMark RF low-loss cable, and Glenair signature high-frequency connectors for rugged multi-port shell configurations.

High-frequency RF contacts for every BluMark RF cable

Glenair signature environmentally-protected multi-port shells provide a common ground plane that eliminates EMI radiation through the RF connector contact

BLUMARK COAX CABLES RF — GLENAIR TURNKEY RF ASSEMBLIES ARE BUILT WITH BLUMARK RF AEROSPACE-GRADE 50 OHM LOW-LOSS COAX CABLES



Size 047 40 GHz	Size 086 40 GHz	Size 141 30 GHz	Size 130 40 GHz	Size 160 40 GHz	Size 200 26.5 GHz	Size 235 26.5 GHz	Size 300 18 GHz
962-025 Series: Triple-Shielded · FEP Jacket Low phase-change PFA Dielectric			962-032 Series: Triple-Shielded · FEP Jacket Low-Loss PTFE Tape Wrapped Dielectric				

TURNKEY

BluMarkRF / Microwave Interconnect Assemblies

With Glenair signature multi-port connectors, low-loss cables, and high-frequency contacts

BLUMARK RF™ COAX CABLES

BluMark RF 50 Ohm Coax Cables are available in eight size categories. These high-frequency, low-loss, flexible cables are suitable for radar and other aerospace applications as well as laboratory test equipment. Jacket options include FEP and radiation-resistant space-grade ETFE. Triple-shielded high-performance cables have expanded PTFE dielectric core for low loss up to 40 GHz. Application selection is based on compatibility with a particular RF / microwave connector type and size, as well as flexibility, EMI screening, weight considerations, temperature tolerance, and altitude.

962-032-300

- 50 ohm size 300 (.304" diameter, .070" conductor) 26.5 GHz max. frequency low-attenuation cable
- -55°C to +200°C rated operating temperature
- FEP jacket, expanded PTFE dielectric, solid SPC center conductor
- Triple-shielded: Tape/foil/braid shield layers with >90 dB shield effectiveness

962-032-160

- 50 ohm size 160 (.161" diameter, .036" conductor) 40 GHz max. frequency low-attenuation cable
- -55°C to +200°C rated operating temperature
- FEP jacket, expanded PTFE dielectric, solid SPC center conductor
- Triple-shielded: Tape/foil/braid shield layers with >95 dB shield effectiveness

962-032-130

- 50 ohm size 130 (.131" diameter, .029" conductor) 40 GHz max. frequency low-attenuation cable
- -55°C to +200°C ratted operating temperature
- FEP jacket, expanded PTFE dielectric, solid SPC center conductor
- Triple-shielded: Tape/foil/braid shield layers with >90 dB shield effectiveness

962-025-086

- 50 ohm size 086 (.104" diameter, .020" conductor) 40 GHz max. frequency low-attenuation cable
- -65°C to +165°C rated operating temperature
- FEP jacket, PFA dielectric, solid SPC center conductor
- Double-shielded: Tape/braid shield layers

962-025-047

- 50 ohm size 047 (.056" diameter, .011" conductor) 70 GHz max. frequency low-attenuation cable
- -65°C to +165°C rated operating temperature
- FEP jacket, PFA dielectric, solid SPC center conductor
- Double-shielded: Tape/braid shield layers

BLUMARK RF COAX CABLES

SERIES 962-047 FLEXIBLE COAX CABLE, 50 OHM LOW-LOSS "THE FLEXIBLE COAX CABLE THAT WON'T WORK-HARDEN"

"Al Dente"

The 962-047 Series "Al Dente" flexible coax cable is constructed from stranded, silver-plated copper conductor, tape-wrapped insulation, and harsh-environment Duralectric jacketing. It is ideally suited for applications that need a flexible coax cable that does not work-harden with use.

GHz	Typical Attenuation (dB/ft)
0.5 GHz	0.205
1 GHz	0.294
4 GHz	0.611
10 GHz	1.008
18 GHz	1.406
26.5 GHz	1.760
40 GHz	2.249