

# BLUMARK COAX CABLES RF

## 50 Ohm RF and Microwave Transmission Cables

### Introducing New Ultra- Flexible "Al Dente" Series



*"Al Dente"*

Series 962 BluMark RF 50 Ohm Coax Cables are available in eight size categories: 047, 086, 141, 130, 160, 200, 235, and 300. These low attenuation cables are suitable for aerospace applications and test equipment. Standard jacket is FEP. Radiation-resistant space-grade ETFE also available. Glenair is pleased to introduce our latest addition to this popular product line, the 962-047 Series "Al Dente" flexible coax cable. 962-047 is a new BluMarkRF cable design utilizing Duraelectric jacketing and a stranded, silver-plated copper conductor. The tape-wrapped cable is ideally suited for applications such as gimbaled infrared cameras that need a flexible coax cable that does not work-harden with use.

BLUMARK  
COAX CABLES RF

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



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

# HIGH-FLEXIBILITY SERIES RF and Microwave Transmission Cable



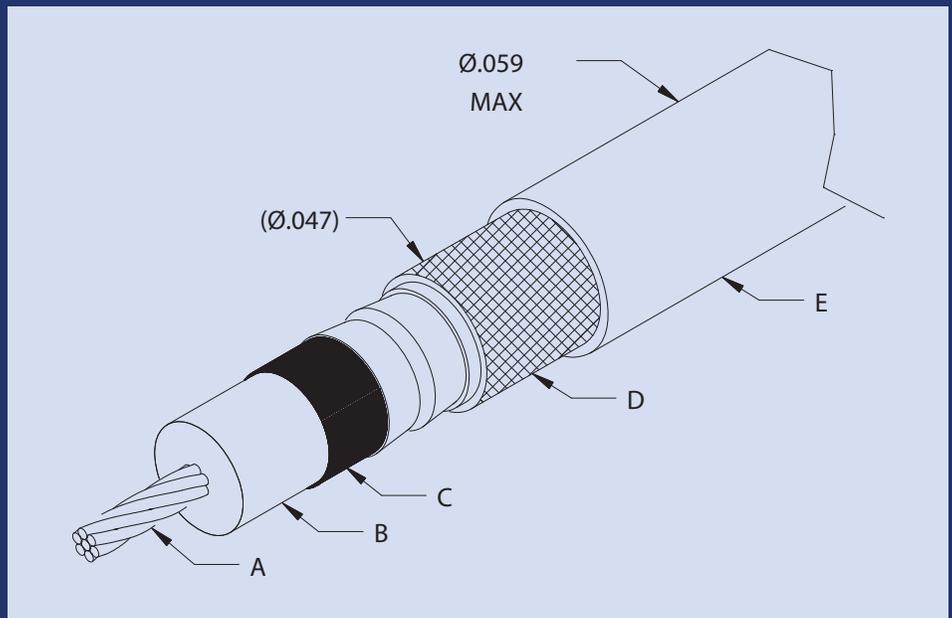
New "Al Dente" Ultra-Flexible Coax Cable with Stranded Silver-Plated Copper Conductor, Tape-Wrapped Insulation, and Duraelectric Jacketing

**BLUMARK** RF  
COAX CABLES

**SERIES 962-047 FLEXIBLE COAX CABLE, 50 OHM LOW-LOSS**  
"The Flexible Coax Cable That Won't Work-Harden"



- A. CENTER CONDUCTOR  
STRANDED SILVER PLATED  
COPPER
- B. PRIMARY INSULATION  
E-PTFE TAPE
- C. INNER SHIELD  
SILVER PLATED COPPER FLAT  
WIRE BRAID
- D. OUTER SHIELD  
SILVER PLATED COPPER  
BRAID
- E. JACKET  
DURAELECTRIC, YELLOW



## ELECTRICAL CHARACTERISTICS:

- Impedance: 50 Ohms, nom.
- Velocity: 82%, nom.
- Shielding Effectiveness:  
> 90 dB

## PHYSICAL PROPERTIES

- Min. Bend Radius (Static): 0.2"
- Lightweight, does not work-harden
- Operating Temperature Range:  
-65°C To +250°C

## ATTENUATION

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

## CALCULATED INSERTION LOSS

$IL (db/100ft) = [K_1 \sqrt{MHz} + K_2 MHz] \times$ Cable Length	
For Cable Length in Feet	
$K_1$	.8919814
$K_2$	.001163

## ABOUT DURAELECTRIC JACKETING

- Service Temperature Range: -65°C to 260°C
- Fire Resistant and Low Smoke-Zero Halogen (LSZH), PFAS-free

Duraelectric™ is a high-performance elastomeric material used as wire insulation in high-performance RF, power, and multi-conductor signal cable applications. Duraelectric is Resistant to common aerospace, military and industrial fluids, and delivers long-term, life-of-system durability under even the harshest operating conditions including high UV exposure.