

RF Coaxial Jumper Cables

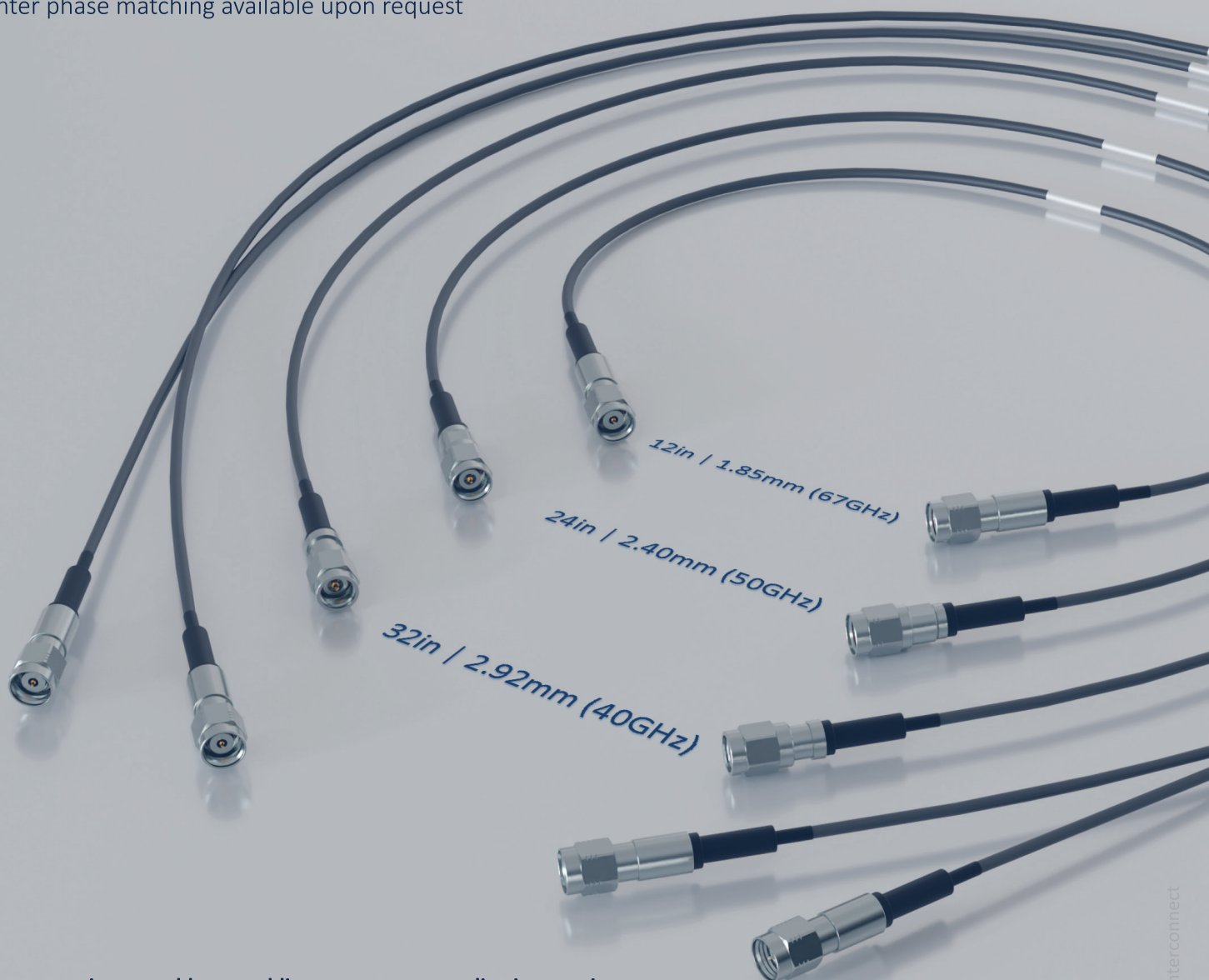
Flexible \varnothing .086 coax cables with precision RF coaxial connectors | DC-67 GHz
Phase stable flexible 50 Ω cables with precision RF coaxial connectors on each end, cost effective solutions, excellent for applications where accurate and repeatable measurements are essential for DUT validation.

Test & Measurement

Telecommunications

High Speed Digital

- Stainless steel coaxial connectors for maximum reusability
Able to withstand 500 mating cycles enabling reliability & repeatability
- High performance flexible \varnothing .086 coax cable
- Phase stable RF jumpers and cable pairs time delay matched to +/- 0.5
Tighter phase matching available upon request



We can customize our cable assemblies to meet your application requirements.

Signal Integrity Prioritized

We offer phase stable RF Jumpers enabling optimal system performance in applications where precise signal timing is critical.

| General Electrical Specifications | |
|-----------------------------------|-------------------|
| Impedance | 50 Ω |
| Cable Frequency Range | DC-110GHZ |
| Capacitance | 24.6PF/FT typical |
| Shielding Effectiveness | >100 dB |
| Velocity Of Propagation | 82% |

| 1.85mm (M) to 1.85mm (M) RF Jumper (65Ghz) | | | |
|--|-------------|----------------|-------------|
| Cable Length | Return Loss | Insertion Loss | TDR Typical |
| 12 in | <-17 dB | -2.1 dB | 1205 ps |
| 24 in | <-17 dB | -3.8 dB | 2450 ps |
| 32 in | <-17 dB | -5.6 dB | 3266 ps |
| 39 in | <-17 dB | -6.8 dB | 3980 ps |

| 2.40mm (M) to 2.40mm (M) RF Jumper (50Ghz) | | | |
|--|-------------|----------------|-------------|
| Cable Length | Return Loss | Insertion Loss | TDR Typical |
| 12 in | <-17 dB | 1.69 dB | 1205 ps |
| 24 in | <-17 dB | 3.38 dB | 2450 ps |
| 32 in | <-17 dB | 4.48 dB | 3266 ps |
| 39 in | <-17 dB | 5.48 dB | 3916 ps |

| 2.92mm (M) to 2.92mm (M) RF Jumper (40Ghz) | | | |
|--|-------------|----------------|-------------|
| Cable Length | Return Loss | Insertion Loss | TDR Typical |
| 12 in | <-17 dB | -1.5 dB | 1205 ps |
| 24 in | <-17 dB | -3.0 dB | 2450 ps |
| 32 in | <-17 dB | -4.0 dB | 3266 ps |
| 39 in | <-17 dB | -4.8 dB | 3981 ps |

Robust design for maximum performance

| Mechanical & Environmental Specifications | | | |
|---|---------------------------|---------|--------|
| Cable Type | Flexible Ø.086 coax cable | | |
| Cable Weight | 0.40 ft | | |
| Operating Temperature Range | -45 to 125°c | | |
| Maximum Bending Radius | Static | 0.13 in | 3.5mm |
| | Dynamic | 0.49 in | 12.5mm |
| Flex cycles over 1 in diameter mandrel, 0.5 lb Weight | >2000 | | |
| Pull Strength: cable to connector | 10lbs minimum | | |

