

Temp-Flex Solid-Core Flexible Microwave Cable >

Providing both customized and off-the-shelf cost-effective options, Temp-Flex Solid-Core Flexible Microwave Cable provides a cabling option that delivers excellent performance consistency, high flex life along with smaller bend radius and more phase stability with respect to flexure compared to other cable types

FEATURES AND ADVANTAGES

Achieves 70% velocity of propagation (VOP) loss characteristics

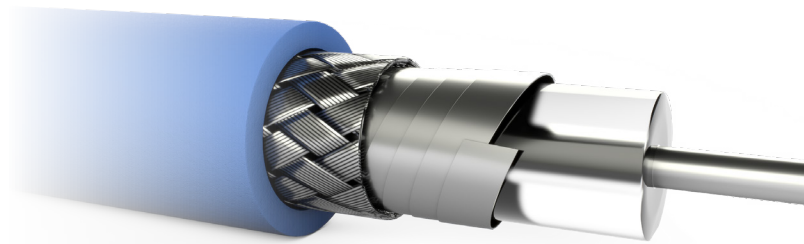
Delivers reliable signal performance and low loss characteristics at high frequencies

Thermally and mechanically stable at high temperatures

Withstands higher soldering temperatures to provide ease of termination

Helically wrapped flat wire shield with round or flat braid

Provides flexible alternative to Semi-Rigid Cable



Extruded fluoropolymer insulation eliminates the phase-knee effect

Delivers linear electrical performance at room temperature

Solid PFA Extrusion

Provides moisture barrier

Shielding effectiveness better than 100 dB at high frequencies

Offers high RF noise immunity and low EMI

Tight impedance control +/- 1 Ohm

Achieves superior RF performance at high frequencies

Standard offering 047, 086 and 141 shield OD

Offers lightweight, highly flexible construction options

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MARKETS AND APPLICATIONS

Data Center Solutions and Telecommunications/Networking

Test and measurement

Medical

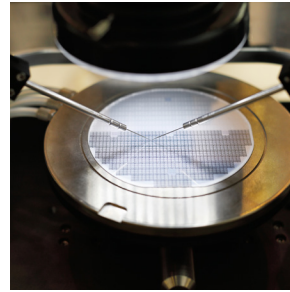
Imaging equipment
Patient monitors
Surgical equipment/devices
Ultrasound equipment
Endoscopy devices
Catheters

Aerospace and Defense

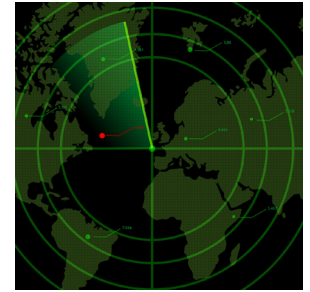
Radar
SATCOM
Electronic warfare
Data centers
Microwave/RF communications



Endoscope



DUT



Radar

SPECIFICATIONS

Reference Information

Packaging: 304.8mm (12-inch) Reels
UL File No.: E61522, Style: 1354
Mates With: High-frequency RF Connectors
(SMA, SMP, SMPM, 2.92mm, 2.4mm)
Use With: RF Connectors
Designed In: Inches
RoHS: Yes

Construction Custom Options Available

Center Conductor: 29 to 19 AWG, Solid or stranded Silver-plated Copper
Dielectric: PFA (Fluoropolymer)
Shield: Helically wrapped flat-wire shield with round or flat braid
Jacket Material: FEP, Polyurethane, Other

Electrical

Impedance: 50 Ohms ± 1
Nominal Time Delay: 4.77 ns/m (1.455 ns/ft)
(Construction Dependent)
Time-Delay Tolerance:
 ± 3.038 ps/m (± 10 ps/ft) Typical
Insertion Loss:
Dependent on Specific Order Number
Cutoff Frequency: Dependent on Specific Order Number
Shielding Effectiveness: > 100 dB

Physical

Fire Resistance: V-0 (UL 1351)
Operating Temperature
FEP: -65 to +165°C
Polyurethane: -30 to +165°C

www.molex.com/link/tempflexiblemw cable.html