

UTiFLEX® MKR Test Cable Assemblies

Our MKR test cable assemblies represent the best in our technology. Using our industry-leading UTiFLEX® microwave cable as a base, we fit MKR with an additional highly flexible and abrasive-resistant ruggedization.

The resulting integrated product becomes an ideal choice for test labs or any testing environment requiring excellent mechanical strength and long-term reliability in a compact package. Our MKR test cable assemblies have passed strenuous lifetime qualification testing to ensure long-term reliability. Though extremely flexible, they also feature excellent crush, torque, and kink resistance, ideally suited to the demanding requirements of today’s test environments. MKR test cables are available in the 26.5-GHz MKR300C series which are capable of withstanding 150,000 unrestrained flexes with minimal degradation.

MKR300C

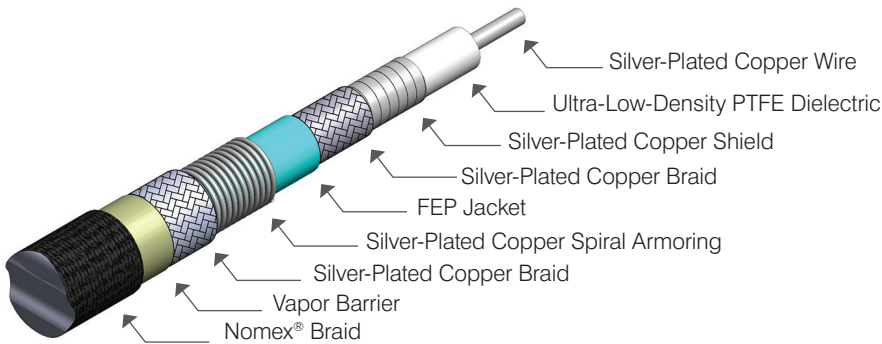
Materials	
Center Conductor Material	7 Strand SPC Alloy
Dielectric Material	ULD PTFE
Inner Shield Material	SPC
Outer Shield Material	SPC
Jacket Material	FEP
Internal Armor	SPC
Outer Armor	SPC BRAID
Vapor Barrier	Proprietary
Outer Abrasion Resistant Braid	NOMEX®

Mechanical Characteristics	
Outer Diameter <i>in (mm)</i>	0.300 (7.62)
Center Conductor Type	Stranded
Max. Weight <i>g/ft (g/m)</i>	51 (167.3)
Min. Bend Radius <i>in (mm)</i>	1.50 (38.10)

Environmental Characteristics	
Temperature Range	-65 °C to 165 °C

Electrical Characteristics		
Impedance		50 Ω
Frequency Range		DC to 26.5 GHz
Velocity of Propagation		81%
Capacitance <i>pF/ft (pF/m)</i>		25.1 (82.4)
Shielding Effectiveness	@ 1 GHz	>100 dB
Max. Insertion Loss <i>db/ft (dB/M)</i>	@ 1 GHz	0.08 (0.25)
	@ 10 GHz	0.27 (0.89)
	@ 18 GHz	0.36 (1.18)
	@ 26.5 GHz	0.44 (1.44)
	@ 40 GHz	-
Phase Stability vs Flexure*	@ 10 GHz	2°
	@ 18 GHz	3°

* Cable wrapped once around a 3 in diameter mandrel



DuPont™ and NOMEX® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company.

Performance

