



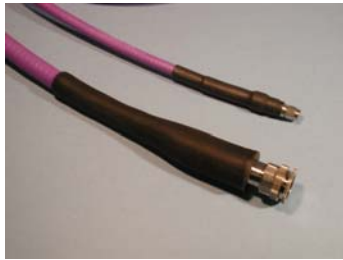
MegaPhase, LLC
 2098 West Main Street, Building 3
 Stroudsburg, PA 18360-9526
 USA

www.megaphase.com
 email: sales@megaphase.com

Phone: 570-424-8400
 Fax: 570-424-6031

EMC Lab Armored Test Cables

EM Series Low Loss Test Cables through 40 GHz



MegaPhase designed its **EM Series** test cable specifically for the needs of EMC lab technicians. These cables feature exceptionally low insertion loss, excellent shielding properties and crush-resistant armoring. **EM18 test cables** perform to 18 GHz and are available with Type N, 7-16, SMA and TNC connectors. **EM40 test cables** perform to 40 GHz and are available with 3.5mm, 2.92mm and 2.4mm connectors. All plug connectors (except precision airlines) are supplied with conductive interface gaskets to minimize RF leakage.

Frequency (GHz)	Band	VSWR (x.xx:1) ¹	Conn. Loss (dB/ea)	Typical Attenuation ²				Maximum Power ²	
				EM18		EM40		EM18	EM40
				dB/ft	dB/m	dB/ft	dB/m	KW (cont)	KW (cont)
1.0	UHF	1.05	0.02	0.05	0.16	0.10	0.33	1.75	0.44
4.0	S	1.15	0.04	0.09	0.30	0.20	0.66	0.60	0.25
8.0	C	1.20	0.07	0.13	0.43	0.29	0.95	0.44	0.17
18.0	Ku	1.35	0.11	0.20	0.66	0.44	1.44	0.25	0.09
26.5	K	1.40	0.15			0.53	1.74		0.07
40.0	Ka	1.45	0.25			0.66	2.17		0.06

¹Typical. Actual values connector dependent

²At standard temperature and pressure

Electrical Data	EM18	EM40
Frequency, max. (GHz)	18.0	40.0
Impedance, nominal (Ω)	50	50
Propagation Velocity, nominal (%)	84	84
Capacitance, nominal (pF/ft (m))	24.4 (80)	24.4 (80)
Shielding Effectiveness, min. (dB)	-100	-100

Mechanical Data	EM18	EM40
Finished Diameter, nominal, in(mm)	0.55 (14.0)	0.32 (8.1)
Bend Radius, min., in(mm)	6 (152)	4 (102)
Temperature Range, min., °C	-55 to +135	-55 to +135

Construction	
Inner Conductor	Solid Ag-plated Cu
Dielectric	PTFE Tape
Outer Conductor	Ag-plated Cu Braid / Ag-plated Cu Tape
Armor	Stainless Steel Conduit with Metallic Braid Layer
Outer Jacket	Polyolefin (Standard)

Phase Matching, Alternate Jacket and other Features Available on Request!

