MegaPhase

With the right connections, anything is possible.

MegaPhase® Low PIM Cable

MegaPhase PM Series Cables are cost effective and are an excellent choice when passive intermodulation-distortion is critical to your signal transmissions. This cable features intermodulation performance as low as -165 dBc.

Tested at a frequency of 869 MHz to 896 MHz

Electrical Data

Maximum Frequency:
6 GHz

Impedance:
50 Ω nominal

Propagation Velocity:
83% nominal

Time Delay:
1.24 ns/ft (4.06 ns/m)

Shielding Effectiveness:
-110 dB minimum (cable only)

Dielectric Withstanding Voltage:
2.0 kV at 60 Hz

Mechanical Data

Finished Outer Diameter:
.303 in (0.770 cm)

Static Bend Radius:
1.00 in (2.54 cm)

Weight:
.054 lbs/ft (0.080 kg/m)

Operating Temp. Range:
-40 to 185° F (-40 to 85° C)

Cable Construction

Inner Conductor:	Solid Cu-clad Al
Dielectric:	Foam Polyethylene
Outer Conductor:	Helically Corrugated Cu Tube
Standard Finish:	Polyethylene

Available Connectors

Type N, SMA*, 7-16 DIN, 4.1/9.5 Mini DIN, 4.3/10

*SMA connectors will perform @ -155 dBc

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MegaPhase® Low PIM Cable (continued)

Specifications

Frequency		Part Number	Attenuation		VSWR
GHz	Band		dB/ft	dB/m	
0.3	UHF	PM4	.030	.100	1.15
0.5			.040	.131	
0.8			.051	.168	
1.0	L		.058	.190	1.20
2.0	S		.085	.279	1.25
2.4			.094	.310	
3.0			.107	.352	
4.0	C		.127	.417	1.30
6.0		PM6	.162	.530	

Low PIM Adapters

These precision adapters provide very low PIM levels that are consistently less than -165 dBc when tested at a frequency of 869 MHz to 896 MHz, with low VSWR levels through 10 GHz. Each low PIM adapter body is finished with a tri-metal plating that results in a very durable surface, good corrosion protection, and providing excellent conductivity.

pCA-N2NB	N Jack to N Jack Bulkhead feed thru (D)	
pCA-N2NP	N Jack to N Jack 4-hole panel mount adapter	
pCA-S2SB	SMA Jack to SMA Jack Bulkhead feed thru (D)	
pCA-S2SP	SMA Jack to SMA Jack 4-hole panel mount adapter	

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