



EM-B810 Series, Ultra Low Loss, Phase Stable Cable Assembly, 18GHz

Features

- VSWR 1.35:1 Max up to 18GHz
- N-Type Connectors both ends
- 83% Phase Velocity
- Double Shielded
- Shielding Effectivity 100dB
- FEP Outer Jacket, Gray
- B810 Series Ultra Low Loss
- Phase and Amplitude Stable



ELECTRICAL SPECIFICATION (25° C, sea level)

Description	Min	Typ	Max	Units/Note
Impedance		50Ω		Ohm
Frequency	DC		18	GHz
VSWR, 18GHz			1.35:1	@18GHz
Velocity of Propagation		83		%
Dielectric Withstand		3000		Volts
RF Shielding	90			dB
Capacitance		80		pF/m
Temperature	-55		165	° C
Phase change vs bending		±0.3		° /GHz
Phase change vs temperature		750		PPM, (-45 - 85 ° C)

Performance by Frequency

Frequency (MHz)	Insertion Loss(25° C) dB/100ft	Average Power(25° C @ Sea Level) Watts
300	7.17	3499
500	9.29	2699
1000	13.23	1895
3000	23.34	1074
4000	27.12	924
5000	30.50	822
6000	33.58	747
8000	39.13	641
10000	44.10	569
12400	49.52	506
18000	60.68	413

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MECHANICAL SPECIFICATION, CONNECTORS		
Description	Connector 1	Connector 2
Type	N-Type	N-Type
Interface Spec	MIL-STD-348	MIL-STD-348
Mating Cycles	5000	5000
Hex Wrench Size	3/4 in	3/4 in
Mating Torque	8-10in-lbs/0.9-1.13nm	8-10in-lbs/0.9-1.13nm
Material	Stainless Steel	Stainless Steel
Pin	Gold Plated BeCu	Gold Plated BeCu
Dielectric Type	PTFE	PTFE

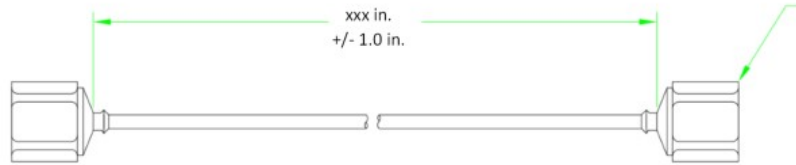
MECHANICAL SPECIFICATION, CABLE	
Description	Specification
Cable Type	EM-B810
Diameter	0.319in. (8.1mm)
Weight	0.146kg/m
Minimum Bend Radius, Static	1.59in. (40.5mm)
Minimum Bend Radius, Dynamic	3.19in. (81.0mm)
Length	Customer Specified

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Ordering Information



Connector Options:
N-Type

Part Number Configurator			
Series	Connector 1	Connector 2	Length (in)
EMB810	XXXX	XXXX	-XXX

Connector 1		Connector 2	
N-Type Male	NTPM	N-Type Male	NTPM
N-Type Female	NTPF	N-Type Female	NTPF

** - If Connector 1 equals Connector 2, leave Connector 2 blank

Example:

EM-B810NTPM-048, 48 inch cable with N-Type male connectors both ends.

EM-B810NTPMNTPF-024, 24 inch cable with N-Type male and N-Type Female connectors.

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