



QUICK-CONNECT

Test Cable

CBL6NMQ-SM+

Mini-Circuits

50Ω 6FT DC to 18 GHz SMA-Male to N-Male

FEATURES

- Wideband coverage, DC to 18 GHz
- Extra rugged construction with strain relief for longer life
- Stainless steel connectors for long mating-cycle life
- Useful over temperature range, -55°C to +105°C
- Triple shield cable for excellent shielding effectiveness
- Flexible for easy connection & bend radius
- Superior stability of insertion loss, VSWR & phase vs. flexing
- 6 month guarantee*



Generic photo used for illustration purposes only

Model No.	CBL6NMQ-SM+
Case Style	GM1105-6
Connectors	SMA-Male ² to N-Male

APPLICATIONS

- High volume production test stations
- Research & development labs
- Environmental & temperature test chambers
- Replacement for OEM test port cables
- Field RF testing
- Cellular infrastructure site testing

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our website for methodologies and qualifications

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.			Typ.			Max.			Units
Frequency range				DC					18		GHz
Length ¹							6				FT
Insertion Loss	DC - 2.5			—			1.2		1.4		dB
	2.5 - 6			—			2.0		2.35		
	6 - 12			—			3.0		3.55		
	12 - 18			—			3.8		4.55		
Return Loss	DC - 2.5			23			30		—		dB
	2.5 - 6			20			30		—		
	6 - 12			17			27		—		
	12 - 18			17			22		—		

1. Custom sizes available, consult factory.

2. Quick-turn connector, 1½T to mate on one side only (marking: 1T)

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55°C to +105°C
Storage Temperature	-55°C to +105°C
Shielding Effectiveness	>100 dB
Power Handling at +25°C	891W Max. at 0.4 GHz 539W Max. at 1 GHz 363W Max. at 2 GHz 180W Max. at 6 GHz 117W Max. at 12 GHz 88W Max. at 18 GHz

Permanent damage may occur if any of these limits are exceeded.

Product Guarantee*

Mini-Circuits* will repair or replace your test cable at its option if the connector attachment fails within six months of shipment. This guarantee excludes cable or connector interface damage from misuse or abuse.





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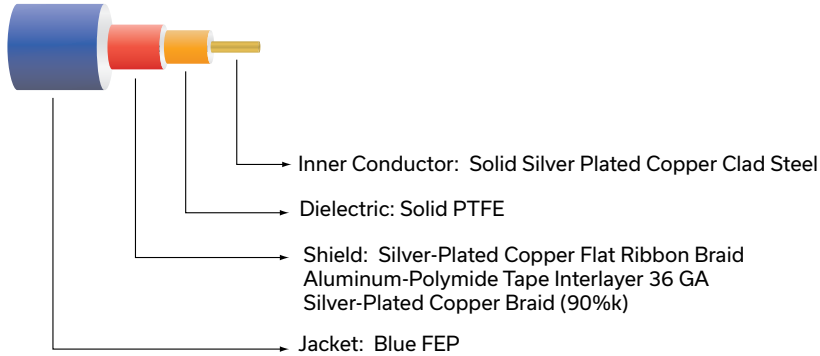
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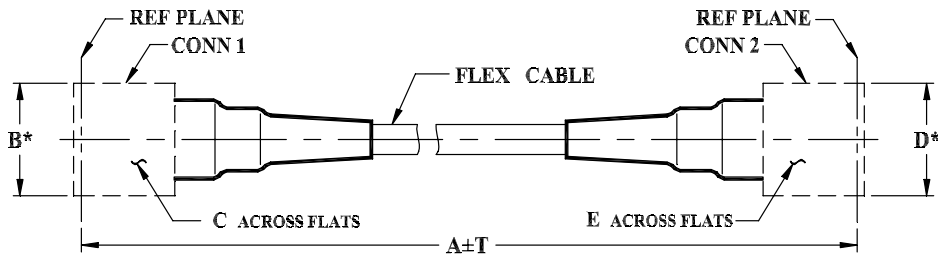
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CABLE CONSTRUCTION



- Connectors:
- Passivated stainless steel
 - Captive contact
 - Thick wall interface (SMA)
 - Gold plated beryllium copper center contacts
 - PTFE dielectric

OUTLINE DRAWING



*OVERALL CONNECTOR OR CABLE & BOOT DIMENSION (CONNECTOR SHAPE MAY VARY)

OUTLINE DIMENSIONS (Inch/mm)

A		B	C	D	E	T		wt
Feet	Meters	0.42	0.312	0.88	.750	Feet	Meters	grams
6	1.83	10.67	7.92	22.35	19.05	0.18	0.05	173





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TYPICAL PERFORMANCE DATA

Frequenc (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		SMA-Male	SMA-Male
50.00	0.16	64.77	47.86
100.00	0.22	49.15	51.38
1000.00	0.72	31.81	31.75
2000.00	1.03	28.95	28.91
2500.00	1.18	36.62	36.19
4000.00	1.54	38.15	35.38
5000.00	1.74	38.97	36.05
6000.00	1.94	40.85	28.69
7000.00	2.09	28.84	32.34
8000.00	2.26	28.21	35.97
9000.00	2.43	24.28	29.74
12000.00	2.88	25.22	26.87
14000.00	3.24	26.88	30.04
15000.00	3.35	28.22	30.07
18000.00	3.67	23.02	28.77

