

Interconnect Cable

QBL3SMQ-NM+

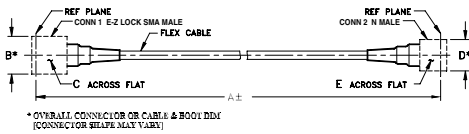
50Ω 3FT DC to 18 GHz

Maximum Ratings

Operating Temperature	-55°C to 105°C		
Storage Temperature	-55°C to 105°C		
Power Handling at 25°C,	270W at	1 GHz	
Sea Level	180W at	2 GHz	
	120W at	4 GHz	
	62W at	12 GHz	
	47W at	18 GHz	

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

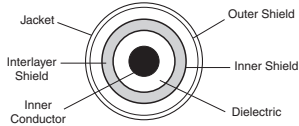
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	T	wt	
Feet	Meters				Inches	mm	grams
3.00	0.91	0.43	--	0.85	0.787		
		10.92	--	21.59	19.99	+0.79/-0	+18.3/-0

Cable Cross Section



Cable Construction	
Inner Conductor	Solid Silver Plated Copper
Dielectric	Solid PTFE
Shield	Silver-Plated Copper tape under Silver-Plated Copper Braid
Jacket	Blue FEP
Connectors (N)	
<ul style="list-style-type: none"> passivated stainless steel (coupling nut) captive contact gold plated brass center contacts PTFE dielectric 	
E-Z Lock SMA	
<ul style="list-style-type: none"> body & outer contact: gold-plated brass center contact: gold-plated CuBe PTFE dielectric clamping piece: white bronze plated brass sleeve: POM 	

sliding locking sleeve, retracted to the open position



locking sleeve closed and in locked position, securing the SMA connection



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.

Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/WCLStore/terms.jsp

Features

- E-Z Lock connector on one end for easy mating & demating
- extra rugged construction with strain relief for longer life
- stainless steel N connector for long mating-cycle life
- useful over temperature range, -55°C to 105°C
- double shield cable for excellent shielding effectiveness
- flexible for easy connection & bend
- excellent stability of insertion loss, VSWR & phase after thousands of flex cycles
- 6 month guarantee*

Applications

- dense RF connect
- commercial and military systems to 18 GHz
- multi-port telecom systems



CASE STYLE: GM1530-3

Connectors	Model	Price	Qty.
Conn1 SMA-Male E-Z Lock	Conn2 N-Male	QBL3SMQ-NM+	Contact Sales Dept.

+RoHS Compliant

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

Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		18	GHz
Length			3		Ft
Insertion Loss	DC - 2	—	0.4	0.9	
	2 - 6	—	0.9	1.6	
	6 - 12	—	1.4	2.4	dB
Return Loss	DC - 2	20	30	—	
	2 - 6	20	28	—	
	6 - 12	13.5	26	—	dB
	12 - 18	13.5	23	—	

Custom sizes available, consult factory.

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		E-Z Lock SMA-M	N-MALE
10.0	0.04	42.2	42.2
1000.0	0.41	31.3	29.9
1750.0	0.55	33.9	30.3
2500.0	0.68	25.6	25.4
4000.0	0.87	29.4	28.1
5000.0	1.00	35.7	37.6
6000.0	1.12	31.9	29.5
7000.0	1.22	28.2	28.7
8000.0	1.29	26.9	28.3
9000.0	1.35	24.3	25.3
10000.0	1.48	22.7	25.6
12000.0	1.66	25.8	34.1
14000.0	1.74	24.4	29.6
16000.0	1.99	25.3	25.5
18000.0	2.14	26.7	25.4

