



Interconnect Cable

QBL Series

50Ω DC to 18 GHz



CASE STYLE: GM1530-XX

XX= cable length in feet

The Big Deal

- Ideal for dense interconnect applications
- E-Z Lock mates with standard SMA connector
- Excellent electrical performance: 20 dB return loss to 18 GHz
- Ultra Rugged: Withstands 20K flex cycles and 20K insertions

Product Overview

The QBL Series Coaxial Cables include a E-Z Lock connector that mates securely with a standard female SMA connector with a simple sliding lock feature. These cables are ideal for use in dense interconnect applications where there are many SMA connectors in a small area such as an RF distribution panel. The QBL Series offers superior strain relief for lasting durability and flexibility for tight access locations. The FEP jacket supports operation to 105°C and protects a double shielded cable construction for minimum signal leakage.

Key Features

Feature	Advantages
E-Z Lock Feature	The E-Z Lock system is simple as Push, Slide and Click to make a repeatable RF connection.
Mate with Standard SMA Connectors	The unique design of the QBL E-Z Lock connector mates directly with a standard female SMA connector. The white bronze plated brass fingers are designed to tightly grip the SMA threads while the center conductor and guide structure make a secure connection to 18 GHz.
Excellent Return loss	Supporting 25 dB return loss at 6 GHz and 19 dB up to 18 GHz, the QBL-N Series are ideally suited for testing a wide range of RF equipment while minimizing measurement degradation due to affects of VSWR interactions.
Good Power Handling Capability	Capable of withstanding RF power of 270 Watts at 1 GHz and 47 Watts at 18 GHz (at sea level), the QBL-N Series are a great fit for a wide variety of test and installation applications.
Super Rugged	Tested without performance degradation to over 20,000 flex cycles (flexed to stress both the cable and strain relief) the QBL-N Series cables are ideal for a wide variety of test applications.

Notes

A. 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.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. 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/MCLStore/terms.jsp



Interconnect Cable

50Ω 1.5FT DC to 18 GHz

QBL1.5SMQ-SM+

Maximum Ratings

Operating Temperature	-55°C to 105°C
Storage Temperature	-55°C to 105°C
Power Handling at 25°C, Sea Level	270W at 1 GHz 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.

Features

- E-Z Lock connector on one end for easy mating & demating
- extra rugged construction with strain relief for longer life
- stainless steel SMA 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*



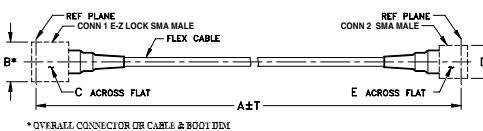
CASE STYLE: GM1526-1.5

Connectors	Model
Conn1 SMA-Male E-Z Lock	Conn2 SMA-Male

+RoHS Compliant

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

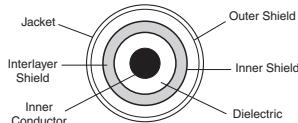
Outline Drawing



Outline Dimensions (inch) (mm)

A	B	C	D	E	T	wt
Feet	Meters	.43	--	.36	.312	inches mm
1.5	0.46	10.92	--	9.14	7.92	+.50/-0 +12.7/-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 (SMA)	
<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.

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