# **NON-CATALOG**

# FLEXT E-Z Lock Interconnect Cable

# DC to 18 GHz

## Maximum Ratings

| maximum maring                   | _            |       |              |
|----------------------------------|--------------|-------|--------------|
| Operating Temperature            | -55          | 5°C   | to 105°C     |
| Storage Temperature              | -55          | 5°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       |
|                                  |              |       | 18 GHz       |
| Permanent damage may occur if an | v of thece I | imite | are exceeded |

# **Outline Drawing**



# OVERALL CONNECTOR OR CABLE & BOOT DIM

# Outline Dimensions (inch)

|      | A      | В     | С | D     | Е     | Т        |          | wt    |  |
|------|--------|-------|---|-------|-------|----------|----------|-------|--|
| Feet | Meters | 0.43  |   | 0.85  | 0.787 | Inches   | mm       | grams |  |
| 6.00 | 1.83   | 10.92 | - | 21.59 | 19.99 | +1.44/-0 | +36.6/-0 | 122   |  |

## **Cable Cross Section**



| Solid Silver Plated Copper                                    |
|---|
| Solid PTFE  |
| Silver-Plated Copper tape under<br>Silver-Plated Copper Braid |
| Blue FEP  |
|   |
| eel (coupling nut)<br>er contacts                             |
|   |
| gold-plated brass<br>ated CuBe<br>pronze plated brass         |
|   |

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.

- · E-Z Lock connector on one end for easy mating & demating
- extra rugged construction with strain relief for longer life
- useful over temperature range, -55°C to 105°C
- flexible for easy connection & bend
- thousands of flex cycles
- · 6 month guarantee\*

# • stainless steel N connector for long mating-cycle life

· double shield cable for excellent shielding effectiveness

- excellent stability of insertion loss, VSWR & phase after

## CASE STYLE: GM1530-6

QBL6SMQ-NM+

| Connectors                 |                 | Model       | Price   | Qty.        |
|----------------------------|-----------------|-------------|---------|-------------|
| Conn1<br>SMA-Male E-Z Lock | Conn2<br>N-Male | QBL6SMQ-NM+ | Contact | Sales Dept. |

## +RoHS Compliant

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

# Applications

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

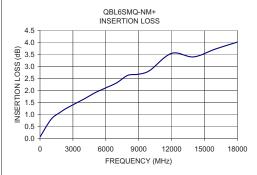
# Electrical Specifications at 25°C

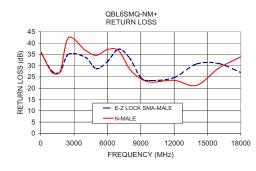
| Parameter       | Condition (GHz) | Min. | Тур. | Max. | Units |
|-----------------|-----------------|------|------|------|-------|
| Frequency Range |                 | DC   |      | 18   | GHz   |
| Length          |                 |      | 6    |      | Ft    |
| Insertion Loss  | DC - 2          | _    | 0.8  | 1.5  | dB    |
|                 | 2 - 6           | _    | 1.5  | 2.9  |       |
|                 | 6 - 12          | _    | 2.5  | 4.2  |       |
|                 | 12 - 18         | _    | 3.2  | 4.8  |       |
| Return Loss     | DC - 2          | 20   | 33   | _    | dB    |
|                 | 2 - 6           | 20   | 31   | _    |       |
|                 | 6 - 12          | 13.5 | 32   | _    |       |
|                 | 12 - 18         | 13.5 | 28   | _    |       |

Custom sizes available, consult factory

# **Typical Performance Data**

| Frequency<br>(MHz) | Insertion Loss<br>(dB) | Return Loss<br>(dB) |        |
|--------------------|------------------------|---------------------|--------|
|                    |                        | E-Z Lock SMA-M      | N-MALE |
| 10.0               | 0.07                   | 35.8                | 36.2   |
| 1000.0             | 0.79                   | 27.6                | 27.1   |
| 1750.0             | 1.06                   | 27.3                | 27.3   |
| 2500.0             | 1.28                   | 35.0                | 42.4   |
| 4000.0             | 1.64                   | 33.7                | 36.8   |
| 5000.0             | 1.90                   | 28.7                | 34.6   |
| 6000.0             | 2.11                   | 31.8                | 37.1   |
| 7000.0             | 2.32                   | 37.3                | 36.6   |
| 8000.0             | 2.63                   | 33.3                | 28.5   |
| 9000.0             | 2.68                   | 24.7                | 24.2   |
| 10000.0            | 2.83                   | 23.4                | 22.7   |
| 12000.0            | 3.55                   | 24.7                | 23.5   |
| 14000.0            | 3.40                   | 30.7                | 21.2   |
| 16000.0            | 3.73                   | 30.9                | 28.8   |
| 18000.0            | 4.02                   | 27.0                | 33.9   |





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