



Mini-Circuits®



# Test Cable

**CBL-12FT-SMSM+**

50Ω 12FT DC to 18 GHz SMA-Male

## FEATURES

- Wideband coverage, DC to 18 GHz
- Extra rugged construction with strain relief for longer life
- Stainless steel SMA 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.  | CBL-12FT-SMSM+ |
| Case Style | GM1006-12      |
| Connectors | SMA-Male       |

### +RoHS Compliant

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

## 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

## ELECTRICAL SPECIFICATIONS AT +25°C

| Parameter           | Frequency (GHz) | Min. | Typ. | Max. | Units |
|---------------------|-----------------|------|------|------|-------|
| Frequency range     |                 | DC   |      | 18   | GHz   |
| Length <sup>1</sup> |                 | 12   |      |      | FT    |
| Insertion Loss      | DC - 2.5        | —    | 2.0  | 2.45 | dB    |
|                     | 2.5 - 6         | —    | 3.8  | 4.4  |       |
|                     | 6 - 12          | —    | 5.9  | 6.7  |       |
|                     | 12 - 18         | —    | 7.3  | 8.7  |       |
| 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.

## 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   |

### 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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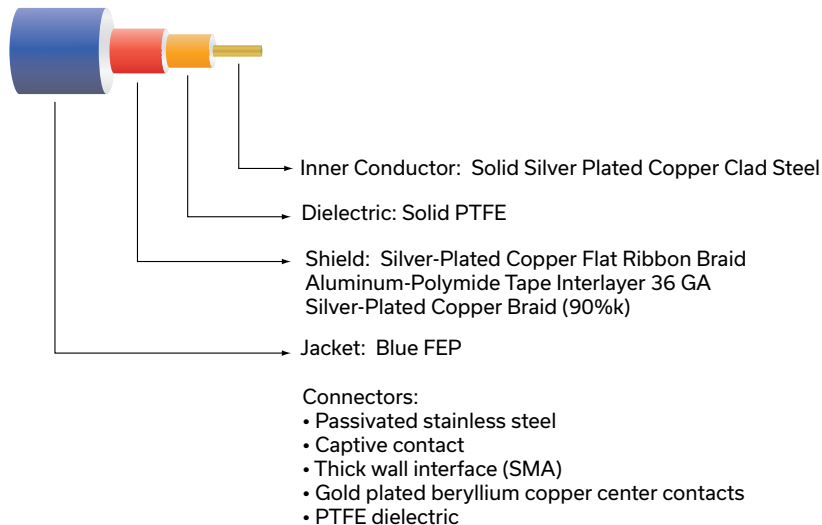


# Test Cable

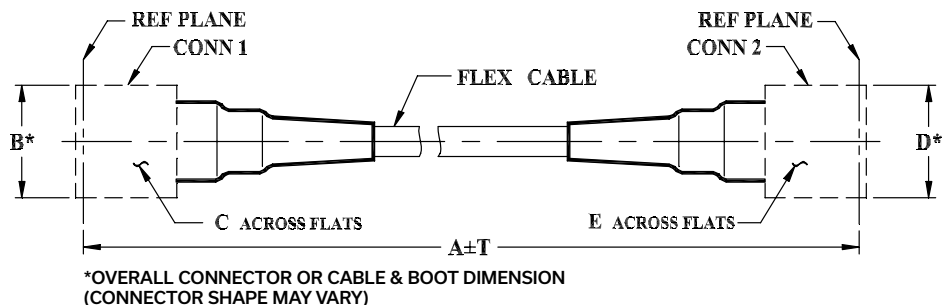
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## CABLE CONSTRUCTION



## OUTLINE DRAWING



## OUTLINE DIMENSIONS (Inch mm)

| A    |        | B     | C     | D     | E     | T    |        | wt    |
|------|--------|-------|-------|-------|-------|------|--------|-------|
| Feet | Meters | 0.42  | 0.312 | 0.42  | 0.312 | Feet | Meters | grams |
| 12   | 3.66   | 10.67 | 7.92  | 10.67 | 7.92  | 0.36 | 0.11   | 262   |





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# Test Cable

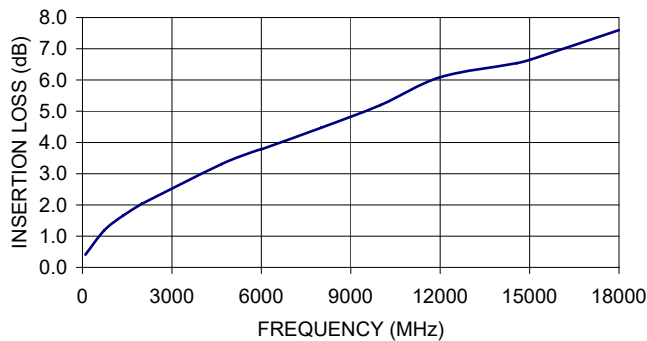
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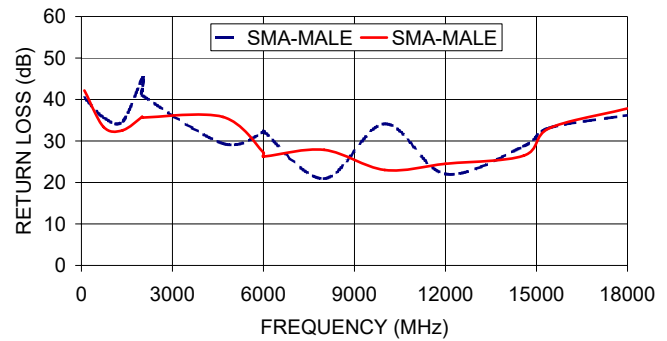
### TYPICAL PERFORMANCE DATA

| Frequency (MHz) | Insertion Loss (dB) | Return Loss (dB) |          |
|-----------------|---------------------|------------------|----------|
|                 |                     | SMA-Male         | SMA-Male |
| 100.00          | 0.41                | 40.41            | 42.16    |
| 733.33          | 1.19                | 35.65            | 33.36    |
| 1366.67         | 1.66                | 34.75            | 32.58    |
| 2000.00         | 2.04                | 45.00            | 35.83    |
| 2000.67         | 2.04                | 42.14            | 35.68    |
| 2001.00         | 2.04                | 41.01            | 35.63    |
| 4667.00         | 3.31                | 29.39            | 35.80    |
| 6000.00         | 3.79                | 32.18            | 27.21    |
| 6001.00         | 3.78                | 32.37            | 26.24    |
| 8000.67         | 4.47                | 20.93            | 27.86    |
| 10000.33        | 5.20                | 34.14            | 23.00    |
| 12000.00        | 6.09                | 22.05            | 24.50    |
| 14572.00        | 6.54                | 28.71            | 26.46    |
| 15429.00        | 6.78                | 33.17            | 33.09    |
| 18000.00        | 7.60                | 36.23            | 37.84    |

CBL-12FT-SMSM+  
INSERTION LOSS



CBL-12FT-SMSM+  
RETURN LOSS



#### 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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)



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