



94 Jackson Road, Suite 110 Devens, MA 01434-4012 USA

## **TESTCABLZ™ - BLU402**

### Cable Assembly Specification Sheet

#### **FEATURES:**

Robust connector attachment  
Optional FlexOPET sleeve (see below)  
Custom lengths available  
DC-18GHz coverage  
1.20:1 max VSWR  
-55°C to +200°C operating temperature

#### **CABLE PARAMETERS:**

##### **Electrical**

| Item                           | Specification                                                                                                                                                                               |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating frequency            | DC-18GHz                                                                                                                                                                                    |
| Dielectric resistance          | 1000MΩ/km minimum                                                                                                                                                                           |
| Test voltage                   | 5000 Vrms                                                                                                                                                                                   |
| Continuous working voltage     | 1900 Vrms                                                                                                                                                                                   |
| Velocity of propagation        | 69.5% nominal                                                                                                                                                                               |
| Capacitance                    | 29.9 pF/ft maximum                                                                                                                                                                          |
| Leakage                        | -110dBc                                                                                                                                                                                     |
| Phase Stability                | +/- 3°                                                                                                                                                                                      |
| Characteristic impedance       | 50 +/- 2Ω                                                                                                                                                                                   |
| Minimum centerline bend radius | 10mm (0.39")                                                                                                                                                                                |
| Weight, approximate            | 43.6 kg/km                                                                                                                                                                                  |
| Attenuation, maximum           | 8dB/100ft (0.26dB/m) @400MHz<br>13dB/100ft (0.43dB/m) @ 1GHz<br>23dB/100ft (0.75dB/m) @ 3GHz<br>30dB/100ft (0.98dB/m) @5GHz<br>45dB/100ft (1.48dB/m) @10GHz<br>64dB/100ft (2.10dB/m) @18GHz |

##### **Mechanical**

| Item                  | Material | Diameter        |
|-----------------------|----------|-----------------|
| Center conductor      | SPCW     | 0.036" (0.92mm) |
| Dielectric resistance | PTFE     | 0.117" (2.97mm) |
| Inner shield          | SPC tape | 0.128" (3.25mm) |
| Braid                 | SPC      | 0.141" (3.58mm) |
| Jacket                | FEP      | 0.163" (4.14mm) |

##### **The Series**

| RMI P/N             | Overall Length | Connectors      |
|---------------------|----------------|-----------------|
| RMCA.12.TCBLZ2.Smm  | 12             | SMA male/male   |
| RMCA.18.TCBLZ2.Smm  | 18             | SMA male/male   |
| RMCA.24.TCBLZ2.Smm  | 24             | SMA male/male   |
| RMCA.36.TCBLZ2.Smm  | 36             | SMA male/male   |
| RMCA.48.TCBLZ2.Smm  | 48             | SMA male/male   |
| RMCA.12.TCBLZ2.SNmm | 12             | SMA male/N male |
| RMCA.18.TCBLZ2.SNmm | 18             | SMA male/N male |
| RMCA.24.TCBLZ2.SNmm | 24             | SMA male/N male |
| RMCA.36.TCBLZ2.SNmm | 36             | SMA male/N male |
| RMCA.48.TCBLZ2.SNmm | 48             | SMA male/N male |
| RMCA.12.TCBLZ2.Nmm  | 12             | N male/male     |
| RMCA.18.TCBLZ2.Nmm  | 18             | N male/male     |
| RMCA.24.TCBLZ2.Nmm  | 24             | N male/male     |
| RMCA.36.TCBLZ2.Nmm  | 36             | N male/male     |
| RMCA.48.TCBLZ2.Nmm  | 48             | N male/male     |

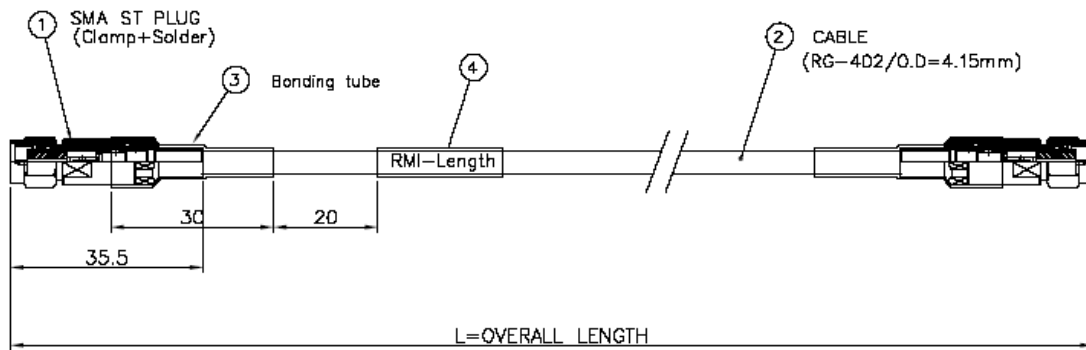
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### Typical outline



### Cross-section



*Shown with optional PET sleeve (\*add "PET" suffix to P/N)*



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