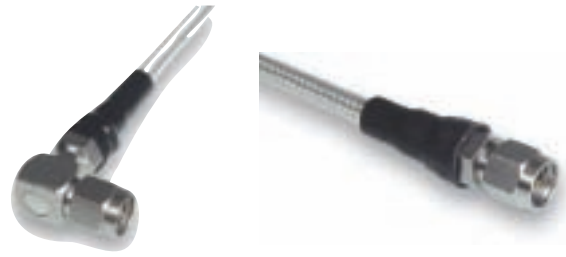


Sealflex 2 microwave cable assemblies are designed for applications requiring consistent microwave performance through to 18 GHz and may be used with minimal degradation to 26 GHz with SMA connectors.

All connector designs exhibit “mode free” characteristics to 18 GHz, thereby allowing low VSWR to be specified without “spikes” being present in the upper frequency spectrum.

Each assembly is 100% tested for VSWR and insertion loss and test plots are supplied with each item.

Sealflex 2 assemblies have been adopted for use in various avionic systems, missiles, military ground and shipborne applications as well as commercial communications equipment.



**Key Features**

- Fully flexible cable
  - Does not require detailed drawing (unlike semi-rigid)
- Triple screens (90 dB RF shielding)
- DC to 26 GHz frequency range
- 100% electrically tested
  - VSWR and insertion loss plots supplied

**SPECIFICATIONS**

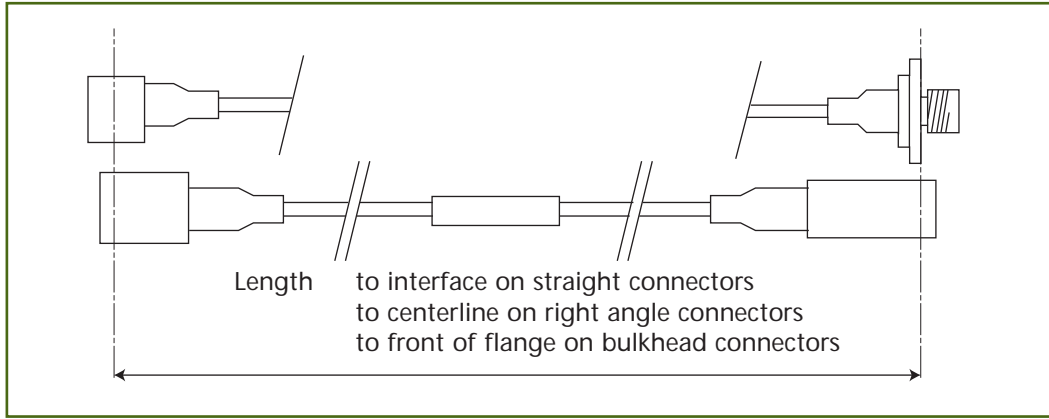
|                      |  |                                    |  |              |               |
|----------------------|--|------------------------------------|--|--------------|---------------|
| <b>ELECTRICAL</b>    |  | Impedance                          | 50Ω nominal  |              |               |
|                      |  | Voltage Standing Wave Ratio (VSWR) | 1.25 (2 - 12.4 GHz) 1.35 (12.4 - 18 GHz)                           |              |               |
|                      |  | Attenuation                        | See graph on next page   |              |               |
|                      |  | Shielding RF                       | -90 dB   |              |               |
| <b>MECHANICAL</b>    |  |                                    |  |              |               |
|                      |  | Connector Retention                | 137 N (30.9 lbs) minimum   |              |               |
|                      |  | Connector / Cable Torque           | 1.7 Nm (15 in. lbs) minimum  |              |               |
|                      |  | Minimum Bend Radii                 | Cable Diameter   | Static       | Flexing       |
|                      |  |                                    | 3,18 (.125)  | 13,00 (.511) | 25,00 (.984)  |
|                      |  |                                    | 4,57 (.180)  | 19,00 (.748) | 38,00 (1.496) |
|                      |  |                                    | 6,35 (.250)  | 25,00 (.984) | 51,00 (2.007) |
| <b>ENVIRONMENTAL</b> |  |                                    |  |              |               |
|                      |  | Operating Temperature              | -65°C to 165°C   |              |               |
|                      |  | Moisture Resistance                | MIL-STD-202, Method 106  |              |               |
|                      |  | Vibration                          | MIL-STD-202, Method 204(C)   |              |               |
|                      |  | Shock                              | MIL-E-5272, Para. 4.15.5.1   |              |               |
|                      |  | Thermal Shock                      | MIL-STD-202, Method 107(C)   |              |               |
|                      |  | Corrosion                          | MIL-STD-202, Method 101(B)   |              |               |
|                      |  | Solvent Resistance                 | 7 days at 200°C, JP6 (MIL-J-2658) and hydraulic fluid (MIL-H-5806) |              |               |

NOTES: Tighter specifications are subject to special quotation.

Dimensions shown in mm (inch)  
 Specifications and dimensions subject to change



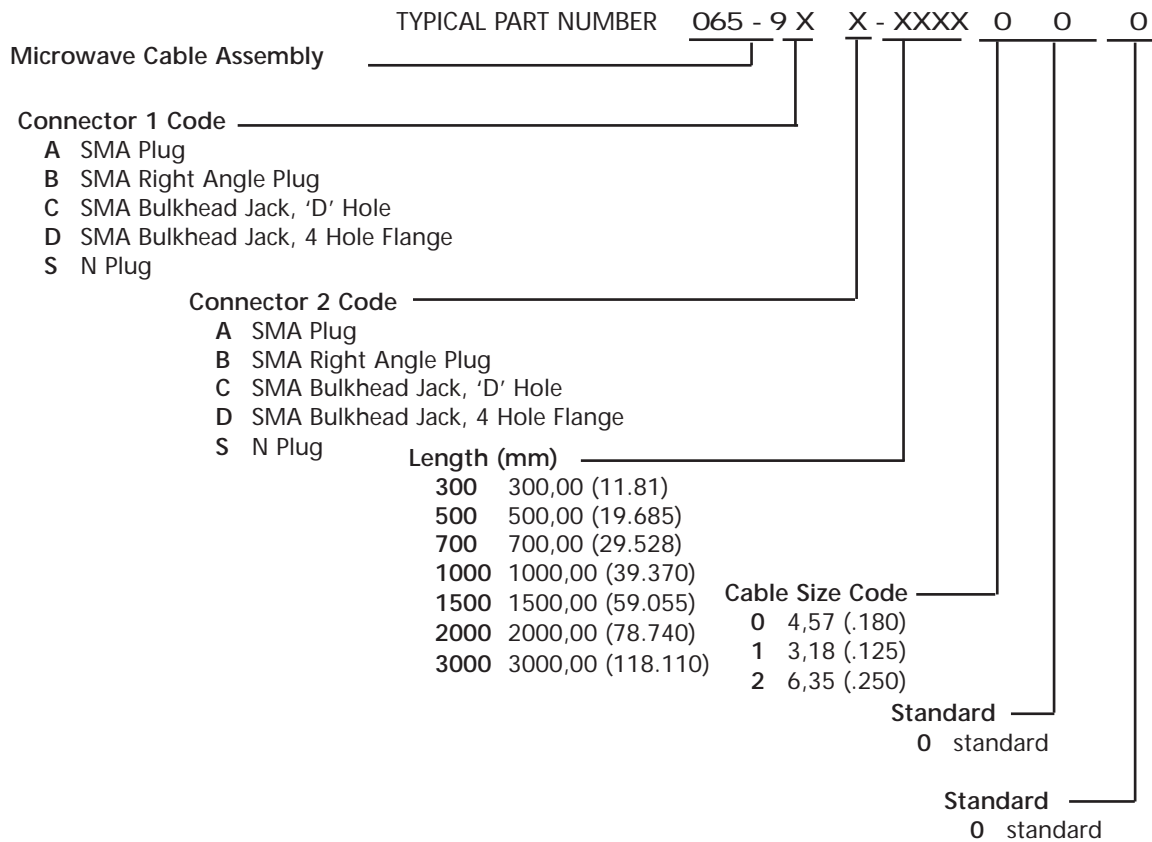
**MICROWAVE CABLE ASSEMBLIES**



|                     |                                |                    |
|---------------------|--------------------------------|--------------------|
| Standard Tolerances | Length up to 1 m (39.370)      | -0 + 10,00 (.393)  |
|                     | 1 m (39.370) to 3 m (118.00)   | -0 + 20,00 (.787)  |
|                     | 3 m (118.00) to 15 m (1771.65) | -0 + 30,00 (1.181) |

**ORDERING INFORMATION**

This table shows how the part numbers for coaxial connectors are constructed.



Example: 065-9AS-1000000 = Sealflex 2 cable assembly; 4,57 (.180) with 1 SMA plug and 1 N plug on 1 metre length of cable

Dimensions shown in mm (inch)  
 Specifications and dimensions subject to change