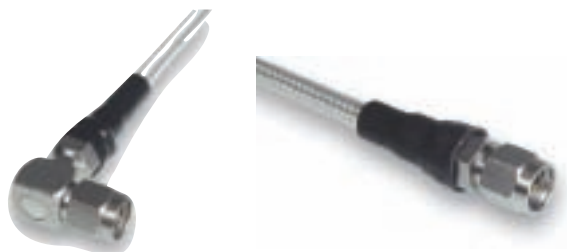


Sealflex 2 microwave cable assemblies are designed for applications requiring consistent microwave performance through to 18 GHz and may be used with minimal degradation to 26 GHz with SMA connectors.

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

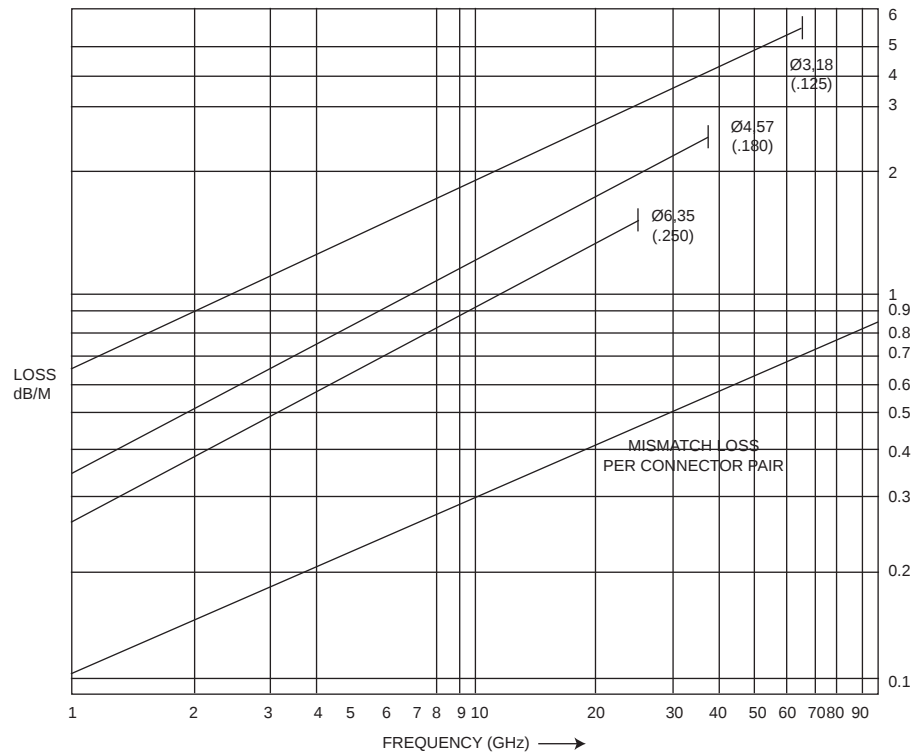
- Fully flexible cable
 - Does not require detailed drawing (unlike semi-rigid)
- Triple screens (90 dB RF shielding)
- DC to 26 GHz frequency range
- 100% electrically tested
 - VSWR and insertion loss plots supplied

SPECIFICATIONS

ELECTRICAL	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		
MECHANICAL	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)
ENVIRONMENTAL	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.

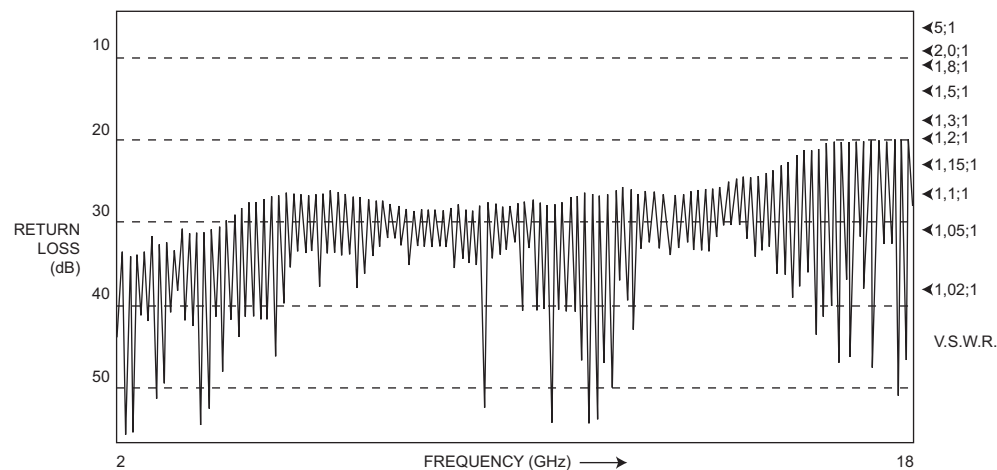
Attenuation



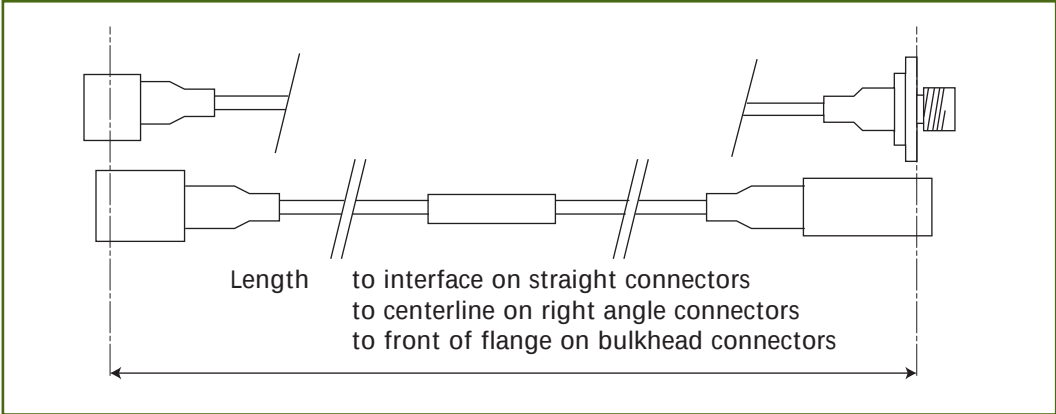
Cable Maximum Frequency (f_c):
(single mode operation)

Ø 3,18 (.125)	= 65.3 GHz
Ø 4,57 (.180)	= 36.8 GHz
Ø 6,35 (.250)	= 23.7 GHz

Typical Return Loss (VSWR) Part Number 065-9AA-1000000



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.

TYPICAL PART NUMBER		065 - 9 X	X - XXXX	0	0	0
Microwave Cable Assembly						
Connector 1 Code						
A SMA Plug						
B SMA Right Angle Plug						
C SMA Bulkhead Jack, 'D' Hole						
D SMA Bulkhead Jack, 4 Hole Flange						
S N Plug						
Connector 2 Code						
A SMA Plug						
B SMA Right Angle Plug						
C SMA Bulkhead Jack, 'D' Hole						
D SMA Bulkhead Jack, 4 Hole Flange						
S N Plug						
Length (mm)						
300 300,00 (11.81)						
500 500,00 (19.685)						
700 700,00 (29.528)						
1000 1000,00 (39.370)						
1500 1500,00 (59.055)						
2000 2000,00 (78.740)						
3000 3000,00 (118.110)						
Cable Size Code						
0 4,57 (.180)						
1 3,18 (.125)						
2 6,35 (.250)						
Standard						
0 standard						
Standard						
0 standard						

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