Introduction

ITT Cannon's 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, except BNC, 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; in fact, anywhere where cost effective high performance and reliability is paramount.

Specification

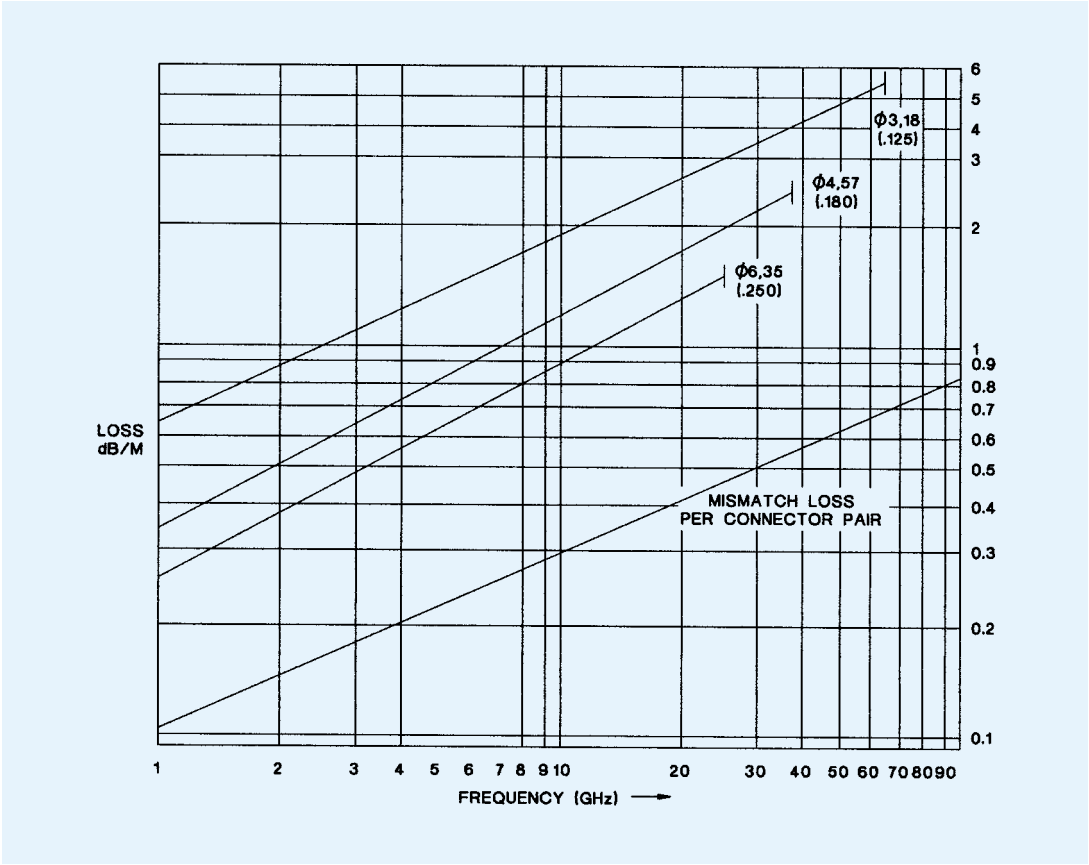
ELECTRICAL	Impedance	50 Ω nominal		
	Voltage Standing Wave Ratio (VSWR)	1.25 (2 - 12.4 GHz). 1.35 (12.4 - 18 GHz)		
	Attenuation	See graph on next page		
	Shielding RF	−90 dB		
MECHANICAL	Connector Retention	137 N (30.9 lbs.) minimum		
	Connector/Cable Torque	1.7 Nm (15 in. lbs.) minimum		
	Minimum Bend 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 to special quotation.
Sealflex 2 assemblies are manufactured under licence to Times Fiber Communications

THIS PRODUCT IS NOT AVAILABLE IN NORTH AMERICA THROUGH ITT CANNON

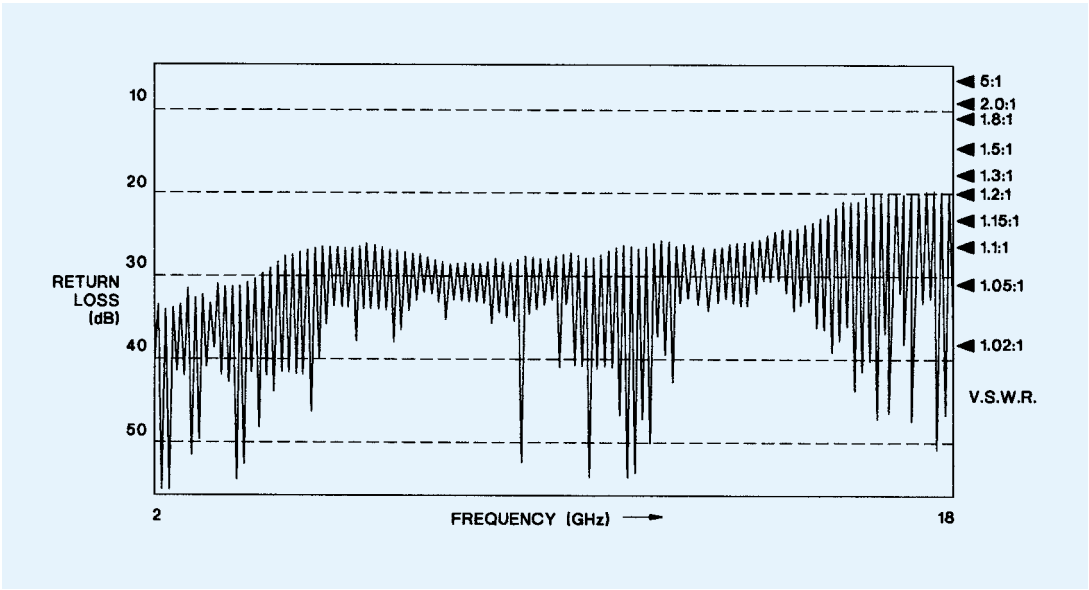
Specification

Attenuation



Cable Maximum Frequency (f_c):	∅ 3,18 (.125) = 65.3 GHz
(Single mode operaton)	∅ 4,57 (.180) = 36.8 GHz
	∅ 6,35 (.250) = 23.7 GHz

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



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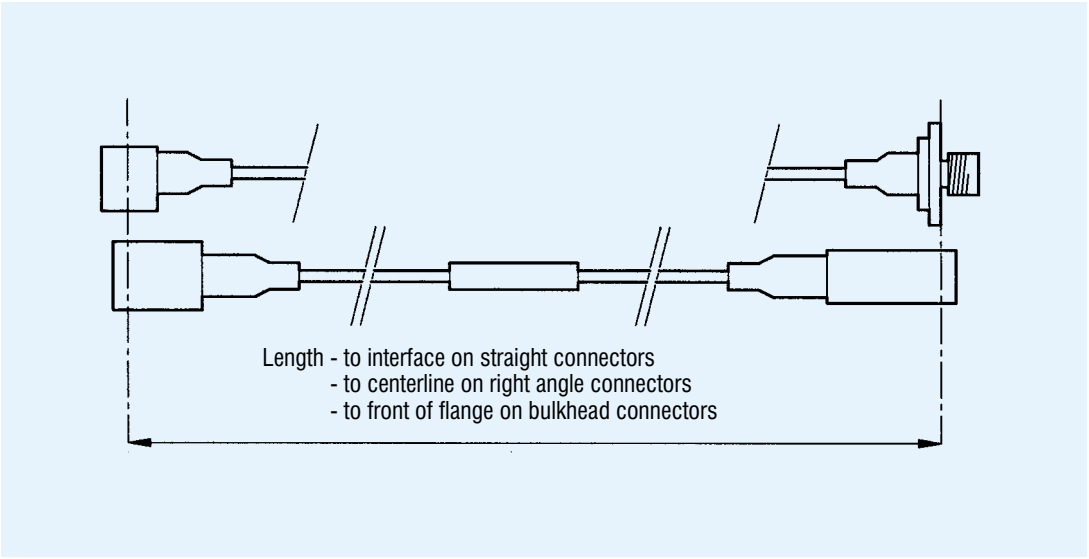
Dimensions are shown in mm (inch)
Dimensions subject to change

Microwave Cable Assemblies



Standard Tolerances:

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

Ordering Information

Connector Type	Code
SMA Plug	A
SMA Right Angle Plug	B
SMA Bulkhead Jack, 'D' Hole	C
SMA Bulkhead Jack, 4 Hole Flange	D
SMS Bulkhead Jack	F
SMS Bulkhead Plug, Float Mounted	G
BNC Plug	H
TNC Plug	J
TNC Right Angle Plug	K
TNC Bulkhead Jack, 'D' Hole	L
TNC Bulkhead Jack, 4 Hole Flange	M
TNC Free Jack	N
K Male	P
N Plug	S
N Right Angle Plug	T
N Bulkhead Jack, 'D' Hole	U
N Free Jack	V
N Jack, 4 Hole Flange	W
APC-7	Z

Cable Size	Code
4,57 (.180)	0
3,18 (.125)	1
6,35 (.250)	2

Part Number Explanation

0 6 5 - 9 X X - X X X X X 0 0

- Microwave Cable Assembly
- Connector 1 Code
- Connector 2 Code
- Length (mm)
  For lengths of 10 m and over contact Sales Department
- 0 - Standard
- 0 - Standard
- 1 - Armoured
- Sealflex 2 Cable Size Code

Example

065-9BL-0720000 Sealflex 2, 4,57 (.180) Assembly with 1 x SMA Right Angle Plug and 1 x TNC Bulkhead Jack 'D' Hole 720,00 (28.346) between center line of SMA and front of flange of TNC, -0 + 10,00 (.393)

Stock Assemblies

The following part numbers are held in stock:

Length	2 x SMA Plug	SMA Plug/N Plug	2 x N Plug
300,00 (11.811)	065-9AA-0300000	–	–
500,00 (19.685)	065-9AA-0500000	065-9AS-0500000	065-9SS-0500000
750,00 (29.528)	065-9AA-0750000	–	–
1000,00 (39.370)	065-9AA-1000000	065-9AS-1000000	065-9SS-1000000
1500,00 (59.055)	065-9AA-1500000	–	065-9SS-1500000
2000,00 (78.740)	065-9AA-2000000	065-9AS-2000000	065-9SS-2000000
3000,00 (118.110)	065-9AA-3000000	–	065-9SS-3000000