

SPECIFICATION

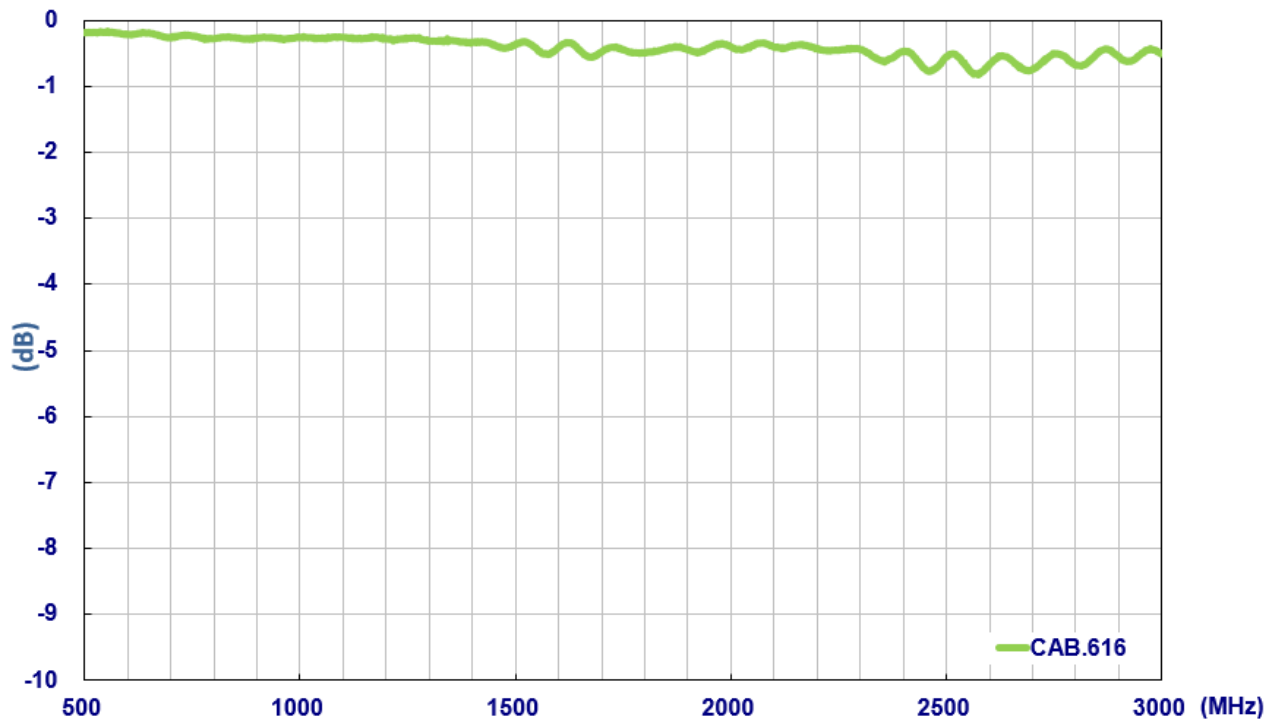
Part No. : **CAB.616**

Product Name : Taoglas Cable Assembly
IPEX MHFI to SMA(F)Bulkhead Straight with O-Ring Connector
with 100mm Ø1.37 cable

Photo :

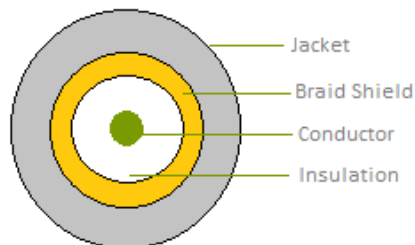


1. Cable Insertion Loss

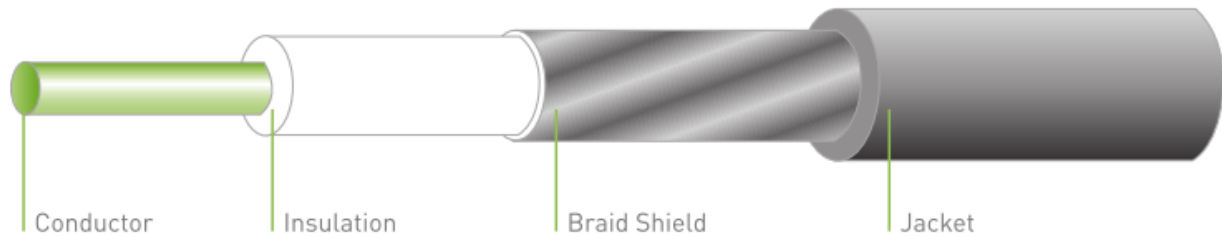


2. 1.37 Cable Specification

2.1 Drawing – Cross Section



2.2 Structure and Dimensions



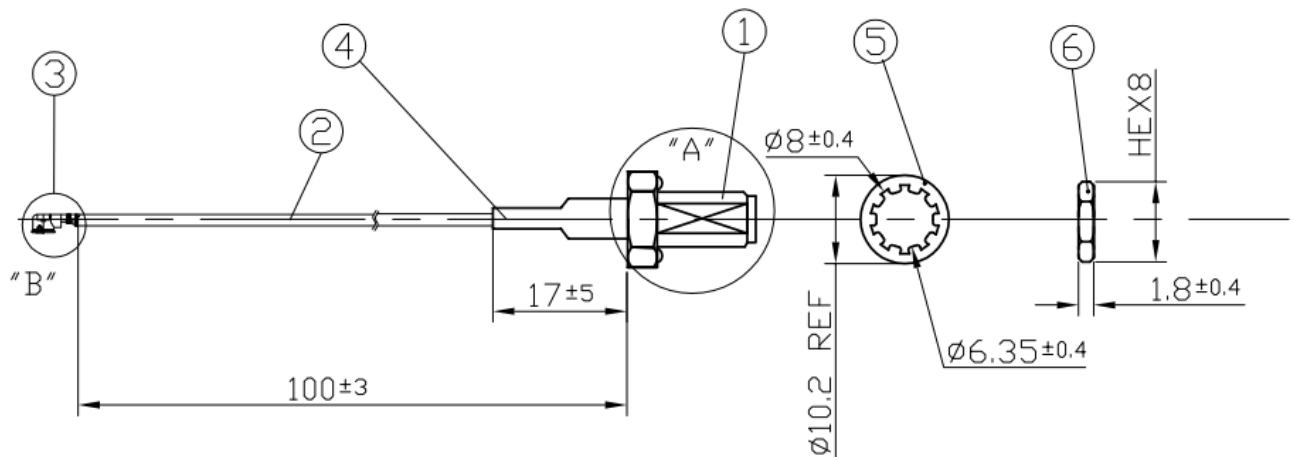
- | | | | |
|--|---|--|--|
| <ul style="list-style-type: none"> • Material – Silver Coated Copper • 30AWG(7/0.102mm) • Diameter - 0.31mm | <ul style="list-style-type: none"> • Material – FEP • Avg. Thickness- 0.30mm • Diameter – $0.92 \pm 0.03\text{mm}$ • Color - Clear | <ul style="list-style-type: none"> • Material–Tinned-Coated Copper • Structure – 16/6/0.050mm$\pm$0.003 • Coverage – 95% • Diameter – $1.15 \pm 0.05\text{mm}$ | <ul style="list-style-type: none"> • Material – FEP • Avg. Thickness- 0.13mm • Diameter – $1.37 \pm 0.05\text{mm}$ • Color – Grey GY-08/Black |
|--|---|--|--|

2.3 Electrical & Physical Specification

1	Item:			30 AWG
2	Rating Temp Voltage:			105°C 30V UL 1979
3	Insulation Resistance:			3000 MEGA OHM-KM Min.
4	Conductor Resistance:			335 OHM/KM/20°C Max.
5	Dielectric Strength:			AC 1.0 KV/minute
6	Spark test:			2.5 KV
7	Insulation	Unaged	Tensile Strength	2500 PSI Min.(1.76Kg/mm²)
			Elongation	200% min.
		Aged	Tensile Strength	Unaged Min 75%(168HRS*232°C)
			Elongation	Unaged Min 75%(168HRS*232°C)
8	Jacket	Unaged	Tensile Strength	2500 PSI Min.(1.76Kg/mm²)
			Elongation	200% min.
		Aged	Tensile Strength	Unaged Min 75%(168HRS*232°C)
			Elongation	Unaged Min 75%(168HRS*232°C)
9	Nom. Impedance			50 ± 3 Ohms
10	Nom. Capacitance			96 ± 3 pF/m
11	Nom. Vel. Of Prop.			69%
12	VSWR (0-6GHz)			Max 1.3
13	Flame Test			VW-1 OK
14	Thermal Shock			Less 1mm at 232°C/1 HR
13	Bend Radius			9mm min.
14	Attenuation (dB/1M)			2.0GHz 2.20
				2.4GHz 2.60
				3.0GHz 2.80
				4.0GHz 3.40
				5.0GHz 3.80
				6.0GHz 4.30

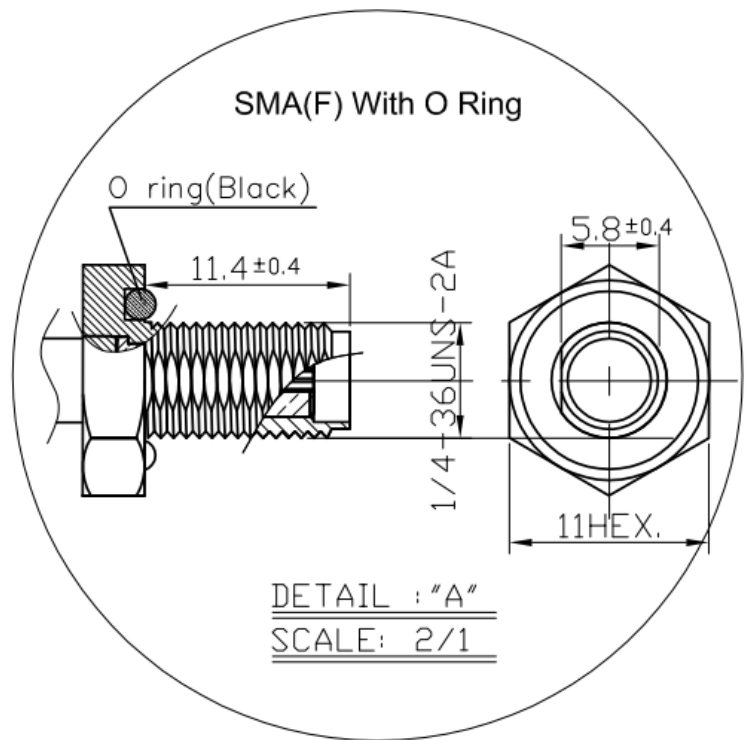
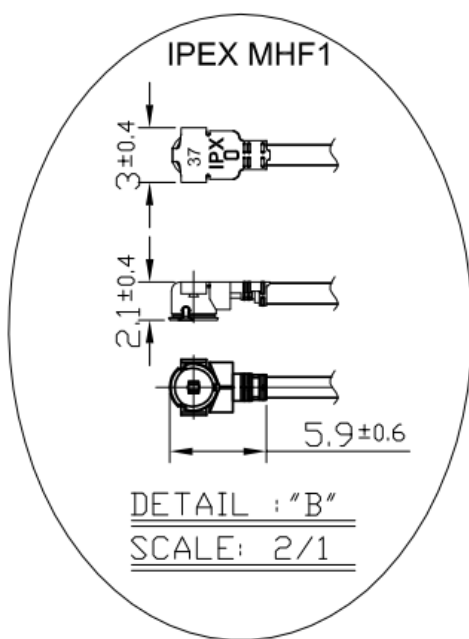
3. Technical Drawing

3.1 CAB.616

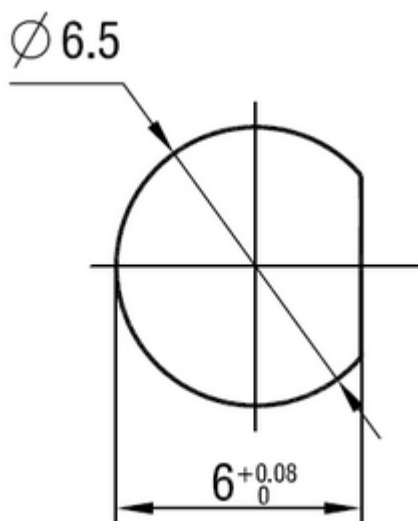


	Name	Material	Finish	QTY
1	SMA(F) With O Ring	Brass	Gold	1
2	1.37 Coaxial Cable	FEP Jacket	Black	1
3	IPEX MHF1	Brass	Gold	1
4	Heat Shrink Tube	PE	Black	1
5	Washer	Brass	Gold	1
6	Nut	Brass	Gold	1

3.2 Connectors



3.3 Recommended Mounting Hole – SMA(F) Bulkhead



Mouser Electronics

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