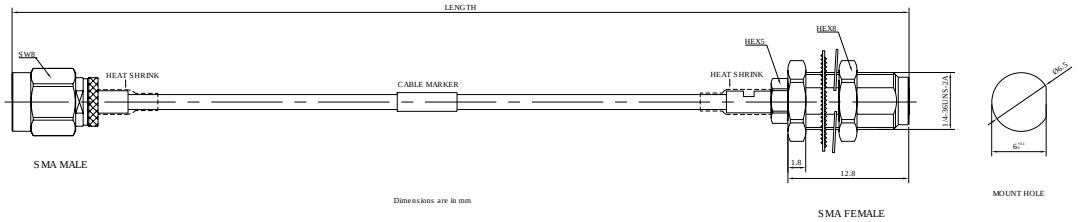
P/N: FRR8-SMMSMYF-XXX

MCX Male to SMA Bulkhead Female Cable Assembly | RG178 Flexible Coax Cable | DC - 6GHz



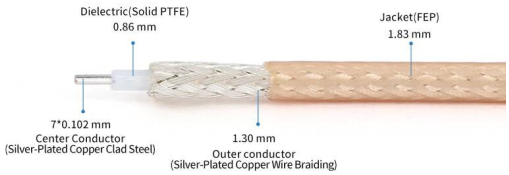


Connectors Configuration

	Connector 1	Connector 2
Connector Series	MCX	SMA
Connector Polarity	Standard	Standard
Connector Gender	Male	Female
Connector Impedance (Ohm)	50	50
Connector Mount Method		Bulkhead
Connector Body Style	Straight	Straight
Connector Body Material	Brass	Brass
Connector Body Plating	Gold	Gold

Cable Configuration

Cable Type	RG178
Cable Impedance (Ohm)	50
Inner Conductor Material	Copper Clad Steel, Silver,7 Strands
Dielectric Material	PTFE
Number of Shields	1
Shield Layer 1 Material	Silver Plated Copper Braid
Jacket Material	Silver Plated Copper Braid
Cable Diameter (mm)	1.83
Cable Color	tan
Minimum Bend Radius (mm)	10.16
Capacitance (pF/m)	96.5
Velocity of Propagation	70%
Shielding Effectiveness	>-70dB@1GHz



Electrical Data

Electrical Specifications for Different Length				
Length (mm)	Length Tolerance (mm)	Frequency	VSWR / Return Loss	Insertion Loss ≤ (dB)
500	±5	DC - 6GHz	1.30 to 3GHz	1.75 to 3GHz
800	±5			2.44 to 3GHz
1000	±10			2.95 to 3GHz
1500	±15			4.15 to 3GHz
2000	±20			5.35 to 3GHz
3000	±30			7.65 to 3GHz
5000	±50			12.25 to 3GHz

Enviromental Specifications

RoHS Compliant	Yes
Operating Temperature Range	-40 ºC to +80 ºC
MIL/STD	N/A

Revision History

Version	Description	Prepared By	Approved By	Date
V1.0	Initial release	Grimm	Hebe	2024-01-01