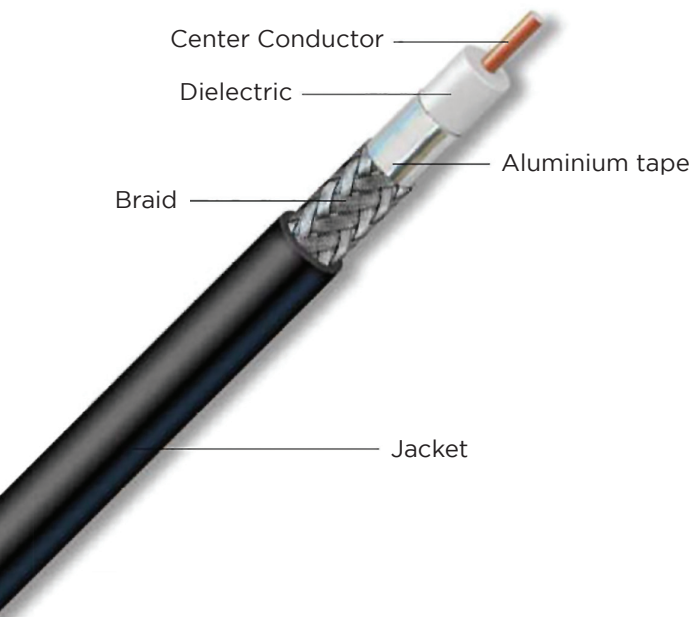


# FM-CABLES

## Fluidmesh radio-antenna connection cables

FM-CABLES are high-performance RF cable assemblies, designed to connect Fluidmesh radios and antennas. The cable shielding protects against external interference, minimizes power loss, and maximizes durability. The connectors ensure stable, low loss electrical performance in demanding environments. FM-CABLES are carefully specified and rigorously tested by Fluidmesh R&D, representing the best choice for best performance.



### CABLE CONSTRUCTION

DESCRIPTION	MATERIAL	MM	INCHES
1. Inner Conductor	Solid Copper	1.42	0.056
2. Dielectric	Foam PE (Polyethylene)	3.81	0.150
3. Outer Conductor	Aluminum/Poly Tape	3.94	0.155
4. Overall Braid	Tinned Copper	4.52	0.178
5. Jacket	PE (Polyethylene)	6.10	0.240

### MECHANICAL SPECIFICATIONS

PERFORMANCE CHARACTERISTICS	UNIT	METRIC	US
Minimum Bend Radius	mm - in	19.1	0.75
Tensile Strength	kg - lb	36.3	80
Cable Weight	kg/m - lb/ft	0.05	0.034
Operating Temperature Rating	°C - °F	-40° to 85°	-40° to 185°

### ELECTRICAL SPECIFICATIONS

PERFORMANCE CHARACTERISTICS	UNIT	METRIC	US
Cutoff Frequency	GHz	31	31
Shielding Effectiveness	dB	>90	>90
Peak Power	kW	5.6	5.6
Velocity of Propagation	%	84.0	84.0
Impedance	ohms ( $\Omega$ )	50	50
Capacitance	pF/m - pF/ft	79.4	24.2
DC Resistance - Inner Conductor	ohms/km ohms/1000 ft	10.5	3.2
DC Resistance - Outer Conductor	ohms/km ohms/1000 ft	12.79	3.89

### ATTENUATION AND AVERAGE POWER

FREQUENCY (MHz)	dB/100 METER	dB/100 FOOT	AV. POWER (kW)
1800	35.6	10.9	0.18
2000	37.7	11.5	0.17
2200	39.6	12.0	0.16
2400	41.5	12.6	0.16
2500	42.4	19.9	0.15
5800	66.8	20.4	0.10

Fluidmesh cables are available in different lengths and combinations including N-male, RPSMA, QMA connectors. Please refer to Fluidmesh pricelist for more details.

Fluidmesh Networks products are installed locally by professional System Integrators and are available worldwide through a network of Authorized Dealers. For additional information please call +1.617.209.6080 or visit us at [fluidmesh.com](http://fluidmesh.com)



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