

Antenna Factory, Inc.

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AF-600 Coaxial Cable

The AF-600 communications cable is an ideal substitute for applications requiring a competitive 600 style cable. Using industry standard tools and connectors, the ease of connectorization of the Antenna Factory AF-600 will be as simple as 1-2-3.

Cable Description	Part Number
Standard Outdoor Cable, Polyethylene Jacket	AF-600
Watertight Cable, Polyethylene Jacket	AF-600DB
Fire Retardant Cable, Non-Halogenated Jacket	AF-600FR

Mechanical Dimensions	Inches	Millimeters
Diameter over Jacket	0.590	14.99
Overall Braid Diameter	0.490	12.45
Outer Conductor Diameter	0.461	11.71
Dielectric Diameter	0.455	11.56
Inner Conductor Diameter	0.176	4.47

Mechanical Specifications	English	Metric
Minimum Bending Radius	1.5 inch	38.1 mm
Bending Moment	2.75 lb-ft	3.73 N*m
Cable Weight	0.131 lb-ft	0.20 kg/m
Tensile Strength	350 lb.	158.9 kg
Flat Plate Crush Strength	60 lb/in	1.07 kg/mm

Materials of Construction	
Inner Conductor	Solid Bare Copper Clad Aluminum
Dielectric	Foam Polyethylene
Outer Conductor	Aluminum Tape
Overall Braid	Tinned Copper

Environmental Specifications	°C	°F
Operating Temperature	-40 to +85	-40 to + 185
Installation Temperature	-40 to +85	-40 to + 185
Storage Temperature	-70 to +85	-94 to + 185

Electrical Specifications		
Maximum Frequency, GHz	10.2	
Velocity of Propagation	87 %	
Voltage Breakdown	4000 VDC	
Peak Power Rating	40 kW	
DC Resistance		
Inner Conductor, ohms	0.53 / 1000'	1.74 / 1000m
Outer Conductor, ohms	1.2 / 1000'	3.94 / 1000m
Jacket Spark, VRMS	8000	
Capacitance	23.4 pF/ft	76.8 pF/m
Inductance,	0.058 μH/ft	0.19 μH/m
Shielding Effectiveness	>90 dB	
Phase Stability	<10 ppm/°C	

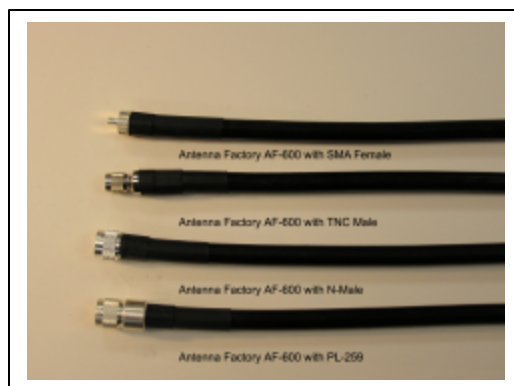
Attenuation and Average Power Ratings

Frequency MHz	Attenuation dB/100 ft	Attenuation dB/100 m	Average Power, kW
30	0.42	1.4	5.5
50	0.54	1.8	4.2
150	1.0	3.2	2.4
220	1.2	3.9	2.0
450	1.7	5.5	1.35
900	2.5	8.1	0.93
1500	3.3	10.8	0.70
1800	3.7	12.0	0.63
2000	3.9	12.7	0.59
2500	4.4	14.4	0.52

Standard Conditions:

For Attenuation: VSWR 1.0, ambient temperature 20°C (68°F).

For Average Power: VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F), sea level, dry air, atmospheric pressure, no solar loading.



Every effort is made to insure the product specifications are complete and accurate. However, omissions, changes to product specifications and design changes may occur without notice.

AF-600 Connectors

Part Number	Description	Part Number	Description
600AF-NM	N-Male Connector – Straight Body ,Crimp, SGT	600AF-SMAF	SMA Female Connector – Straight Body, Crimp, SGT
600AF-NF	N-Female Connector – Straight Body, Crimp, SGT	600AF-TNCM	TNC Male Connector – Straight Body, Crimp, SGT
600AF-NFBH	N-Female Bulkhead – Straight Body, Crimp, SGT	600AF-TNCF	TNC Female Connector – Straight Body, Crimp, SGT
600AF-SMAM	SMA Male Connector – Straight Body, Crimp, SGT	600AF-7/16DINM	7/16 DIN Male Connector – Straight Body, Crimp
600AF-SMAMR	SMA Male Connector – Right Angle Body, Crimp	600AF-7/16DINMR	7/16 DIN Male Connector – Right Angle Body, Crimp