

AGA240 Low-Loss RF Coaxial Cable Datasheet

Cellular 4G LTE CBRS 5G NR 600MHz~6000MHz / GPS GNSS 1562-1612MHz / WiFi 6 2.4GHz~6GHz

Physical Specifications	Center Conductor	Solid Bare Copper
	<i>Conductor Dia. (+/-0.02mm)</i>	1.42
	<i>Min. Break Strength (N)</i>	728
	Insulation	Foamed Polyethylene
	<i>Insulation Dia. (+/-0.10mm)</i>	3.81
	<i>Color</i>	Neutral
	<i>Centricity (%)</i>	≥ 90
	<i>Adhesion</i>	10 to 100N @ 25mm
	1st Outer Conductor	Bonded Aluminum Foil
	<i>Overlapping</i>	≥ 115%
	<i>Dia. (+/-0.10mm)</i>	3.94
	2nd Outer Conductor	Tinned Copper Braid
	<i>Conductor Dia. (+/-0.01mm)</i>	0.12
	<i>No. of Wires</i>	144
	<i>Coverage (+/-3%)</i>	90
	Outer Jacket	PVC
	<i>Outer Dia (+/-0.10mm)</i>	6.10
	<i>Tensile strength</i>	≥ 13.5 N/mm ²
	<i>Elongation at break</i>	≥ 300 %
	<i>Adhesion</i>	20 to 80N @ 50mm
	Cable Lengths	
	<i>Standard Lengths</i>	2ft 10ft 25ft 30ft
	<i>Custom Lengths</i>	Available on Request
	Connector End Options	All Standard Connector Ends
Properties	Min. Bending Radius:	19.1 mm
	Max. Pulling Tension	372 N
	Crush Resistance (Load of 700)	< 1 %
	Admissible Ambient Temperature	-40~+85 °C
Electrical Characteristics	Characteristic Impedance	50 +-3ohm
	Capacitance	79 ±3pF/m
	Velocity Ratio	> 84 %
	DC Resistance: Centre Conductor	< 10.50 ohm/km
	DC Resistance: Outer Conductor	< 12.76 ohm/km
	Peak Power rating	5.60 Kw
	Cut Off Frequency	31.00 GHz
	Insulation Resistance	> 5,000 MΩ·km
	Dielectric Strength	1600 VAC
	Voltage Withstand	1500 VDC
Screening Factor at 1 - 1000MHz	> 90 dB	

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Attenuation

Frequency	Attenuation (20 °C)	
30 MHz	1.34	dB/100Ft
50 MHz	1.74	dB/100Ft
100 MHz	2.50	dB/100Ft
150 MHz	3.02	dB/100Ft
220 MHz	3.66	dB/100Ft
450 MHz	5.27	dB/100Ft
900 MHz	7.56	dB/100Ft
1500 MHz	9.88	dB/100Ft
1800 MHz	10.85	dB/100Ft
2000 MHz	11.49	dB/100Ft
2500 MHz	12.92	dB/100Ft
3000 MHz	14.36	dB/100Ft
5800 MHz	20.40	dB/100Ft

AGA240 Low-Loss RF Coaxial Cable
 Times Microwave LMR Equivalent Technology



- Solid Copper Inner Conductor
- Foamed Poly Insulation
- Bonded Aluminum Foil
- Tinned Copper Braid
- Outer Conductor
- PVC Jacket

