

### AGA195 Low-Loss RF Coaxial Cable Datasheet

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

<b>Physical Specifications</b>	<b>Center Conductor</b> <i>Conductor Dia. (+/-0.02mm)</i> <i>Min. Break Strength (N)</i>	<b>Solid Bare Copper</b> .94 293
	<b>Insulation</b> <i>Insulation Dia. (+/-0.10mm)</i> <i>Color</i> <i>Centricity (%)</i> <i>Adhesion</i>	<b>Foamed Polyethylene</b> 2.80 <i>Neutral</i> ≥ 90 10 to 100N @ 25mm
	<b>1st Outer Conductor</b> <i>Overlapping</i> <i>Dia. (+/-0.10mm)</i>	<b>Bonded Aluminum Foil</b> ≥ 115% 2.95
	<b>2nd Outer Conductor</b> <i>Conductor Dia. (+/-0.01mm)</i> <i>No. of Wires</i> <i>Coverage (+/-3%)</i>	<b>Tinned Copper Braid</b> 0.11 112 90
	<b>Outer Jacket</b> <i>Outer Dia (+/-0.10mm)</i> <i>Tensile strength</i> <i>Elongation at break</i> <i>Adhesion</i>	<b>PVC</b> 4.95 ≥ 13.5 N/mm <sup>2</sup> ≥ 300 % 20 to 80N @ 50mm
	<b>Cable Lengths</b> <i>Standard Lengths</i> <i>Custom Lengths</i>	2ft 10ft 15ft 20ft Available on Request
	<b>Connector End Options</b>	<b>All Standard Connector Ends</b>
<b>Properties</b>	Min. Bending Radius:	12.70 mm
	Max. Pulling Tension	245 N
	Crush Resistance (Load of 700)	< 1 %
	Admissible Ambient Temperature	-40~+85 °C
<b>Electrical Characteristics</b>	Characteristic Impedance	50 +-3ohm
	Capacitance	83 ±3pF/m
	Velocity Ratio	> 80 %
	DC Resistance: Centre Conductor	< 24.94 ohm/km
	DC Resistance: Outer Conductor	< 16.10 ohm/km
	Peak Power rating	2.50 Kw
	Cut Off Frequency	41.00 GHz
	Insulation Resistance	> 5,000 MΩ·km
	Dielectric Strength	1600 VAC
	Voltage Withstand	1000 VDC
Screening Factor at 1 - 1000MHz	> 90 dB	

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**Attenuation**

Frequency	Attenuation (20 °C)	
30 MHz	1.98	dB/100Ft
50 MHz	2.56	dB/100Ft
100 MHz	3.66	dB/100Ft
150 MHz	4.55	dB/100Ft
220 MHz	5.39	dB/100Ft
450 MHz	7.77	dB/100Ft
900 MHz	11.12	dB/100Ft
1500 MHz	14.54	dB/100Ft
1800 MHz	16.00	dB/100Ft
2000 MHz	16.89	dB/100Ft
2500 MHz	19.02	dB/100Ft
3000 MHz	21.00	dB/100Ft
5800 MHz	29.90	dB/100Ft

**AGA195 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

