

AGA195 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 <i>Conductor Dia. (+/-0.02mm)</i> <i>Min. Break Strength (N)</i>	Solid Bare Copper .94 293
	Insulation <i>Insulation Dia. (+/-0.10mm)</i> <i>Color</i> <i>Centricity (%)</i> <i>Adhesion</i>	Foamed Polyethylene 2.80 <i>Neutral</i> ≥ 90 10 to 100N @ 25mm
	1st Outer Conductor <i>Overlapping</i> <i>Dia. (+/-0.10mm)</i>	Bonded Aluminum Foil ≥ 115% 2.95
	2nd Outer Conductor <i>Conductor Dia. (+/-0.01mm)</i> <i>No. of Wires</i> <i>Coverage (+/-3%)</i>	Tinned Copper Braid 0.11 112 90
	Outer Jacket <i>Outer Dia (+/-0.10mm)</i> <i>Tensile strength</i> <i>Elongation at break</i> <i>Adhesion</i>	PVC 4.95 ≥ 13.5 N/mm ² ≥ 300 % 20 to 80N @ 50mm
	Cable Lengths <i>Standard Lengths</i> <i>Custom Lengths</i>	2ft 10ft 15ft 20ft Available on Request
	Connector End Options	All Standard Connector Ends
Properties	Min. Bending Radius:	12.70 mm
	Max. Pulling Tension	245 N
	Crush Resistance (Load of 700)	< 1 %
	Admissible Ambient Temperature	-40~+85 °C
Electrical Characteristics	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

