

RG7 Outer Conductor Braided Cable

75Ω braided coaxial cable compliant with MIL-C-17 standard, excellent shielding, low loss and low VSWR.

IMPEDANCE	OUTER DIAMETER
75 ± 3 Ω	**8.08 mm**
MAX. FREQUENCY	
5 ~ 1000 MHz	

RG7 | 75Ω | 75Ω RG Series Braided Coaxial Cable

Custom lengths, connectors and pre-assembled jumpers are available. Send us your specification for a quotation.

TECHNICAL DATA

Technical parameters

Source: 2026 Technical Selection Manual

STRUCTURE

Inner conductor	bare copper wire / copper-clad steel wire 1.29 mm
Dielectric	foam PE 5.72 mm
Outer conductor	(shield) laminated aluminum foil + Al-Mg alloy wire braid 5.90 mm
Jacket	PVC or PE 8.08 mm tri-shield aluminum foil + braid + aluminum foil 8.20 mm quad-shield double aluminum foil + double-layer braid 8.59 mm

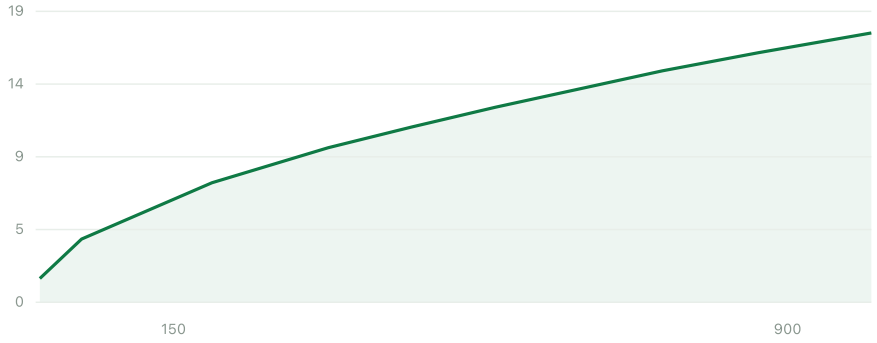
ELECTRICAL

Characteristic impedance	75 ± 3 Ω
Nominal capacitance	53 pF/m
Velocity of propagation	85 % return loss ≥ 22 dB (0–470 MHz); ≥ 20 dB (470–1000 MHz) shielding attenuation 85 / 85 / 90 / 90 / 90 dB (5 / 50 / 200 / 550 / 800 MHz)
Insulation resistance	≥ 5000 MΩ·km applicable frequency range 5 ~ 1000 MHz

MECHANICAL & ENVIRONMENT

Min. bending radius	≥ 6 × cable OD (fixed installation); ≥ 15 × cable OD (flexible installation)
Operating temperature	PVC −25 ~ +70 °C; PE −40 ~ +85 °C optional shield construction single shield / tri-shield (TRI) / quad-shield (Quad)
Standards	GY/T 135, SJ/T 11138
Applications	CATV drop cable, satellite TV, CCTV and distribution network

ATTENUATION & POWER



Attenuation in dB/100 m at 20 °C, nominal values (±5%).

MHz	dB/100m	MHz	dB/100m
5	1.54	550	12.63
55	4.1	750	14.99
211	7.74	865	16.17
350	10.01	1000	17.45

MHz	dB/100m	MHz	dB/100m
450	11.35		

Product description

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