

QR715 Aluminum Tube Cable

QR715 extra-large aluminum tube cable, ultra-low loss backbone transmission.

IMPEDANCE	OUTER DIAMETER
75 ± 2 Ω	**19.94 mm**

QR715 | 75Ω | 75Ω QR Series Aluminum Tube 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	CCA wire (CCA) 4.22 mm
Dielectric	foam PE 17.42 mm
Outer conductor	welded (longitudinal argon-arc) smooth aluminum tube 18.16 mm
Jacket	PE or LSZH LSZH 19.94 mm

ELECTRICAL

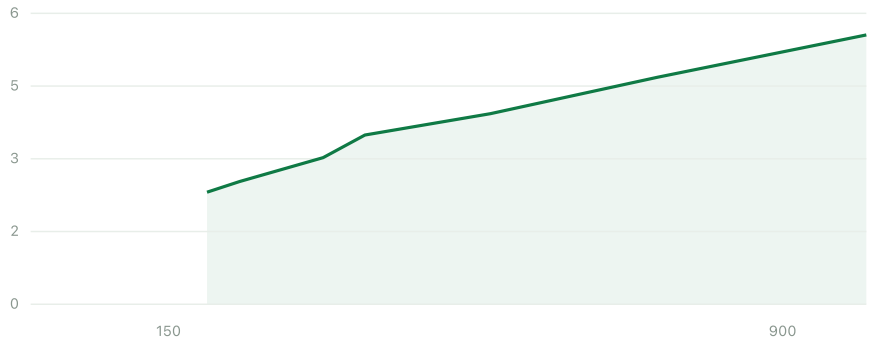
Characteristic impedance	75 ± 2 Ω

Nominal capacitance	50 ± 3 pF/m
Velocity of propagation	88 % return loss ≥ 24 dB (5–300 MHz); ≥ 22 dB (300–1000 MHz) shielding attenuation ≥ 100 dB (55 MHz); ≥ 110 dB (211–1000 MHz) inner conductor DC resistance ≤ 1.91 Ω/km (20 °C)
Insulation resistance	≥ 5000 MΩ·km jacket spark test ≥ 4000 V AC

MECHANICAL & ENVIRONMENT

Min. bending radius	≈ 199 mm (10 × cable OD) max. tensile force ≈ 154 kgf self-supporting strand optional (QR715M, for aerial installation)
Operating temperature	PE –40 ~ +85 °C; PVC –25 ~ +70 °C
Standards	GY/T 135, SJ/T 11138
Applications	CATV trunk line / distribution trunk, HFC long-distance bidirectional HFC transmission

ATTENUATION & POWER



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

MHz	dB/100m	MHz	dB/100m
211	2.43	550	4.13
250	2.66	750	4.92
350	3.18	1000	5.84
400	3.67		

Product description

Presenting the QR715 75-Ohm Aluminum Tube Cable, a flagship in the realm of signal transmission, crafted for the pinnacle of performance and longevity. This cable is engineered to excel in the demanding of conditions, offering a robust solution for high-definition broadcasting and data transmission.