

QR625 Aluminum Tube Cable

QR625 large-size aluminum tube cable, low loss long-distance transmission.

IMPEDANCE	OUTER DIAMETER
75 ± 2 Ω	**17.4 mm**

QR625 | 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) 3.45 mm
Dielectric	foam PE 14.30 mm
Outer conductor	welded (longitudinal argon-arc) smooth aluminum tube 15.80 mm
Jacket	PE or LSZH LSZH 17.40 mm

ELECTRICAL

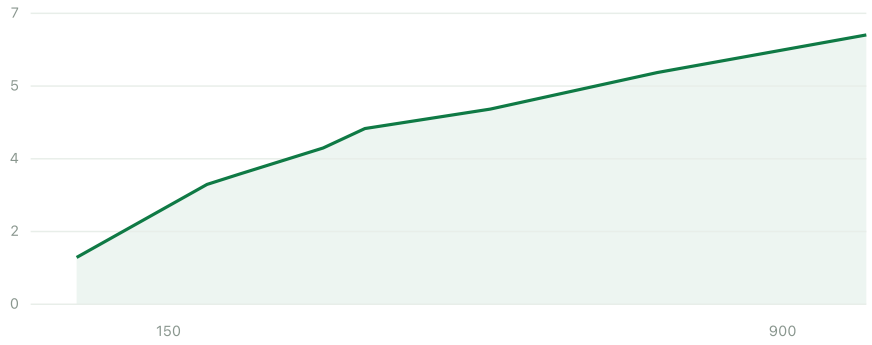
Characteristic impedance	75 ± 2 Ω

Nominal capacitance	50 ± 3 pF/m
Velocity of propagation	87 % 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 ≤ 2.86 Ω/km (20 °C)
Insulation resistance	≥ 5000 MΩ·km jacket spark test ≥ 4000 V AC

MECHANICAL & ENVIRONMENT

Min. bending radius	≈ 174 mm (10 × cable OD) max. tensile force ≈ 125 kgf self-supporting strand optional (QR625M, 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
55	1.18	400	4.43
211	3.02	550	4.92
250	3.28	750	5.84
350	3.94	1000	6.79

Product description

Introducing the QR625 75-Ohm Aluminum Tube Cable, a conduit for signal transmission that sets new standards in cable technology. This cable is designed for high-capacity and high-definition applications, ensuring pristine signal delivery with unmatched reliability.