

QR® 715 Series Cables

Product Descriptions



PODJETJE ZA PROIZVODNJO,
TRGOVINO, STORITVE IN INŽENIRING
POD HRUŠEVCO 30, 1360 VRHNIKA
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CommScope's patented QR® coaxial cable was developed to meet the increasing demands of tomorrow's broadband networks. QR has the highest reliability and flexibility of any Trunk and Distribution coaxial cable, low RF attenuation and an unprecedented 10 year warranty.



All QR cable products offer tough polyethylene jackets and a standardized, environmentally sealed connector interface engineered for reliability and craft friendliness.

QR 715 is optimized for use in broadband distribution plants. QR 715 offers lower attenuation than larger traditional products, with unmatched flexibility, reliability and cost effectiveness.




Standard QR Construction

A precision aluminum strip is formed and continuously RF welded around a high compression micro-cellular foam dielectric core, eliminating RF leakage, and the rigidity common in traditional coaxial products. The shield is fully bonded to the dielectric core, as is the copper clad aluminum center conductor. A tough polyethylene jacket is applied standard, which enhances cable reliability and allows QR's unique connector technology to form an environmental seal.

Aerial Installation

Catalog Number	Description	Cable Weight	Shipping Weight	Standard Length*
QR 715 JCA 	offers all of QR's standard construction features	145 lbs/kft (216 kg/km)	205 lbs/kft (305 kg/km)	3000 ft (914 m)
QR 715 JCAM188 	has an integrated figure 8 stranded galvanized steel messenger for self-supporting applications	232 lbs/kft (342 kg/km)	301 lbs/kft (448 kg/km)	3000 ft (914 m)

Underground Installation

Catalog Number	Description	Cable Weight	Shipping Weight	Standard Length*
QR 715 JCASS 	features CommScope's Migra-Heal® floodant that seals jacket damage to inhibit corrosion	145 lbs/kft (216 kg/km)	205 lbs/kft (305 kg/km)	3000 ft (914 m)
QR 715 2J(MA) CASS 	offers twin polyethylene jackets separated with tough polypropylene tape for extra cut-through resistance	182 lbs/kft (271 kg/km)	232 lbs/kft (345 kg/km)	3000 ft (914 m)
QR 715 JACASS 	features CommScope's Migra-Heal® floodant, a bonded, chrome-plated armor and twin polyethylene jackets for ultimate toughness	313 lbs/kft (466 kg/km)	383 lbs/kft (570 kg/km)	3000 ft (914 m)

*Longer (and shorter) lengths are available

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Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.166	4.22
Nominal Diameter Over Dielectric	0.686	17.42
Nominal Diameter Over Outer Conductor	0.715	18.16
Nominal Outer Conductor Thickness	0.0145	0.37
Nominal Diameter Over Jacket	0.785	19.94
Nominal Jacket Wall Thickness	0.035	0.89

Messenger Version

Diameter of Steel Messenger	0.188	4.78
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Dual Jacket Version

Nominal Jacket Wall Thickness of Outer Jacket	0.046	1.17
Nominal Diameter Over Outer Jacket	0.881	22.38

Armored Versions

Nominal Diameter Over Corrugated Armor	0.855	21.71
Nominal Armor Thickness	0.008	0.20
Nominal Diameter Over Outer Jacket	0.935	23.75
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:		
(Jacketed)	5.0 in.	12.7 cm
(Armored)	7.5 in.	19.1 cm
Maximum Pulling Tension	340 lbs.	154 kgf
Minimum Breaking Strength(188 of Messenger)	3,900 lbs.	1,769 kgf

Electrical Characteristics

Capacitance	15.3 ± 1.0 pf/ft	50 ± 3.0 nf/km
Impedance	75 ± 2 ohms	
Velocity of Propagation	88%	

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.579 ohms/1000 ft.	1.90 ohms/km
Outer Conductor	0.418 ohms/1000 ft.	1.37 ohms/km
Loop	0.997 ohms/1000 ft.	3.27 ohms/km

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.09	0.11	0.30	0.36
30	0.25	0.27	0.82	0.89
45	0.31	0.33	1.02	1.08
50	0.33	0.35	1.08	1.15
55	0.35	0.36	1.15	1.18
83	0.43	0.45	1.41	1.48
108	0.48	0.51	1.57	1.67
150	0.57	0.61	1.87	2.00
181	0.66	0.68	2.17	2.23
193	0.68	0.70	2.23	2.30
211	0.71	0.74	2.33	2.43
220	0.72	0.76	2.36	2.49
250	0.77	0.81	2.53	2.66
270	0.80	0.84	2.62	2.76
300	0.83	0.89	2.73	2.92
325	0.88	0.94	2.89	3.08
350	0.91	0.97	2.99	3.18
375	0.95	1.01	3.12	3.31
400	0.98	1.05	3.22	3.44
425	1.01	1.09	3.31	3.58
450	1.04	1.12	3.41	3.67
500	1.10	1.19	3.61	3.90
550	1.18	1.25	3.87	4.10
600	1.22	1.31	4.01	4.30
750	1.36	1.49	4.47	4.89
865	1.48	1.62	4.86	5.31
1000	1.59	1.75	5.23	5.74

Specifications are subject to change without notice.