E20715JCASS-10MB DUCT

E20® Coaxial/Microduct Hybrid Buried Cable



- E20 is a solution that enables service providers the ability to bridge HFC networks to FTTx. The E20 composite coaxial/fiber product line combines fiber, microducts, and coaxial cable under one jacket
- Serves businesses in a new commercial serving area
- Mitigates future cost of fiber installation
- Saves on initial installation due to "single sheath" vs. multiple sheaths
- Ideal for commercial data customers that also require video
- All products tested to industry standards

OBSOLETE

Product Classification	
Product Type	Hybrid cable, coax and fiber
Product Brand	E20®
General Specifications	
Cable Series	QR 715
Dimensions	
Height	31.471 mm 1.239 in
Width	21.463 mm 0.845 in
Outer Jacket Thickness, nominal	0.762 mm 0.03 in
Material Specifications	
Outer Jacket Material	Medium density polyethylene (MDPE)
Mechanical Specifications	
Minimum Bend Radius	101.6 mm 4 in
Pulling Tension, maximum	54.431 kg 120 lb

Environmental Specifications

Environmental Space

Buried

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E20715JCASS-10MB DUCT

Packaging and Weights

Weight, gross

363.112 kg/km | 244 lb/kft

Regulatory Compliance/Certifications

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



Agency

Included Products

360000001 10MB DUCT EMPTY	-	ConQuest® Empty Conduit, 10 mm, black
5513592 QR® 715 JCASS	-	75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for underground

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36000001 | 10MB DUCT EMPTY

Empty conduit

ConQuest®

ConQuest® Empty Conduit, 10 mm, black



Product Classification

Product Type

Product Brand

General Specifications

Color	Black	
Conduit Type	Non-toneable	
Density Test Method	ASTM D792A	
Density, maximum	0.955 g/cm ³ 0.035 lb/in ³	
Density, minimum	0.941 g/cm ³ 0.034 lb/in ³	
Design Standard	ASTM D3350-05	
Wall Type	Smooth	

Dimensions

Inner Diameter, nominal	7.976 mm 0.314 in
Outer Diameter, nominal	10.008 mm 0.394 in
Wall Thickness, minimum	0.838 mm 0.033 in
Nominal Size	10 mm

Material Specifications

Flexural Modulus, minimum	551.581 N/mm ² 80000 psi
Flexural Property Test Method	ASTM D790
Hydrostatic Design Basis	Not pressure rated
Hydrostatic Design Test Method ASTM D2837	
Material Type	High density polyethylene (HDPE)

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36000001 | **10MB DUCT EMPTY**

Melt Flow Rate Test Method		ASTM D1238	
Melt Flow Rate, maximum	ı	0.39 g/10 min	
Mechanical Spec	ifications		
Minimum Bend Radius, ur	nsupported	101.6 mm 4 in	
Tensile Property Test Me	thod	ASTM D638	
Tensile Strength at yield, minimum		20.684 N/mm² 3000 psi	
Pulling Tension, maximum		54.431 kg 120 lb	
Environmental S	pecifications		
Environmental Stress Crack Resistance Failure rate of 10% within 96 ho			
Environmental Stress Test Method		ASTM D1693, ESCR Condition B	
Packaging and Weights			
Weight, net		28.275 kg/km 19 lb/kft	
Regulatory Compliance/Certifications			
Agency	Classification		
ISO 9001:2015	Designed, manufactured and/or distributed under this quality		

Designed, manufactured and/or distributed under this quality management system



* Footnotes

Environmental Stress Crack Resistance ESCR-Environmental Stress Crack Resistence

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5513592 | QR® 715 JCASS

75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for underground

Coaxial hardline cable

QR®



Product Classification

Product Type

Product Brand

General Specifications

Cable Type	715 Series
Construction Type	Welded
Jacket Color	Black
Short Description	QR 715 JCASS SM PR997

Dimensions

Cable Length	914.4 m 3000 ft	
Diameter Over Center Conductor, nominal	4.216 mm 0.166 in	
Diameter Over Dielectric, nominal	17.424 mm 0.686 in	
Diameter Over Jacket, nominal	19.939 mm 0.785 in	
Diameter Over Outer Conductor, nominal	18.161 mm 0.715 in	
Jacket Thickness, nominal	0.889 mm 0.035 in	
Outer Conductor Thickness, nominal	0.368 mm 0.014 in	

Electrical Specifications

Capacitance	50.197 pF/m 15.3 pF/ft
Capacitance Tolerance	±1.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±2 ohm
dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)

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5513592 | QR® 715 JCASS

dc Resistance, Inner Conductor, nominal	1.903 ohms/km 0.58 ohms/kft
dc Resistance, Loop, nominal	3.281 ohms/km 1 ohms/kft
dc Resistance, Outer Conductor, nominal	1.378 ohms/km 0.42 ohms/kft
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	88 %
Operating Frequency Band	5-3000 MHz
Structural Return Loss	24 dB @ 1003–1218 MHz 24 dB @ 1219–1794 MHz 30 dB @ 5–1002 MHz
Structural Return Loss, Grade N	=24 dB @ 1003–1218 MHz =24 dB @ 1219–1794 MHz =30 dB @ 5–1002 MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.36	0.11
55.0	1.21	0.37
85.0	1.51	0.46
204.0	2.4	0.73
211.0	2.43	0.74
250.0	2.66	0.81
300.0	2.92	0.89
350.0	3.18	0.97
400.0	3.44	1.05
450.0	3.67	1.12
500.0	3.9	1.19
550.0	4.1	1.25
600.0	4.3	1.31
750.0	4.89	1.49
865.0	5.31	1.62
1002.0	5.76	1.75
1218.0	6.43	1.96
1500.0	7.44	2.27
1794.0	8.3	2.53
1800.0	8.32	2.54
2000.0	8.88	2.71
2200.0	9.42	2.87

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5513592 | QR® 715 JCASS

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2500.0	10.21	3.11
2700.0	10.72	3.27
3000.0	11.46	3.49
Material Specific	ations	
Center Conductor Materia	al	Copper-clad aluminum
Dielectric Material		Foam PE
Jacket Material		PE
Outer Conductor Material	I	Aluminum
Mechanical Specifications		
Pulling Tension, maximu	m	154.221 kg 340 lb
Environmental Specifications		
Corrosion Protection		Migraheal®
Environmental Space		Buried
Packaging and V	Veights	
Packaging Type		Reel
Weight, gross		305.074 kg/km 205 lb/kft
Regulatory Compliance/Certifications		
Agency	Classification	
ISO 9001:2015	Designed, manufacture	d and/or distributed under this quality management system
ISO		

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9001:2015

