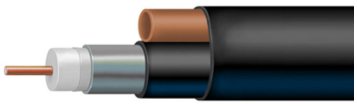
550086305 | E20715JCASS-16MT DUCT

E#O® Coaxial/Microduct Hybrid Buried Cable



- E#O is a solution that enables service providers the ability to bridge HFC networks to FTTx. The E#O 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
- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or are the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

OBSOLETE

Product Classification

Product Type	Hybrid cable, coax and fiber-duct
Product Brand	E#O®

General Specifications

Cable Series	QR 715

Dimensions

Height	37.338 mm | 1.47 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	203.2 mm | 8 in
Pulling Tension, maximum	95.254 kg | 210 lb

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Environmental Specifications

Environmental Space	Buried

Packaging and Weights

Weight, gross	403.292 kg/km | 271 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

Included Products

359998100	–	ConQuest® Empty Conduit, 16 mm, SDR 11, terracotta
359998400	–	ConQuest® Empty Conduit, 16 mm, SDR 11, terracotta
5513592 QR® 715 JCASS	–	75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for underground

359998100

ConQuest® Empty Conduit, 16 mm, SDR 11, terracotta

- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or are the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability	North America
Product Type	Empty conduit
Product Brand	ConQuest®
Government Funding	Build America Buy America (BABA) compliant

General Specifications

Color	Terracotta
Conduit Type	Non-toneable
Density Test Method	ASTM D792A
Density, maximum	0.955 g/cm³ | 0.035 lb/in³
Density, minimum	0.941 g/cm³ | 0.034 lb/in³
Design Standard	ASTM D3350-05
Wall Type	Smooth

Dimensions

Length	1,828.8 m | 6000 ft
Inner Diameter, nominal	12.725 mm | 0.501 in
Outer Diameter, nominal	15.875 mm | 0.625 in
Wall Thickness Designation	SDR 11
Wall Thickness, minimum	1.397 mm | 0.055 in
Nominal Size	16 mm

Material Specifications

Flexural Modulus, minimum	551.581 N/mm² | 80000 psi
Flexural Property Test Method	ASTM D790

359998100

Hydrostatic Design Basis	Not pressure rated
Hydrostatic Design Test Method	ASTM D2837
Material Type	High density polyethylene (HDPE)
Melt Flow Rate Test Method	ASTM D1238
Melt Flow Rate, maximum	0.39 g/10 min

Mechanical Specifications

Minimum Bend Radius, unsupported	203.2 mm | 8 in
Tensile Property Test Method	ASTM D638
Tensile Strength at yield, minimum	20.684 N/mm² | 3000 psi
Pulling Tension, maximum	95.254 kg | 210 lb

Environmental Specifications

Environmental Stress Crack Resistance	Failure rate of 10% within 96 hours
Environmental Stress Test Method	ASTM D1693, ESCR Condition B

Packaging and Weights

Weight, net	68.456 kg/km | 46 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistence

359998400

ConQuest® Empty Conduit, 16 mm, SDR 11, terracotta

Product Classification

Product Type	Empty conduit
Product Brand	ConQuest®

General Specifications

Color	Terracotta
Conduit Type	Non-toneable
Density Test Method	ASTM D792A
Density, maximum	0.955 g/cm³ | 0.035 lb/in³
Density, minimum	0.941 g/cm³ | 0.034 lb/in³
Design Standard	ASTM D3350-05
Wall Type	Smooth

Dimensions

Inner Diameter, nominal	12.725 mm | 0.501 in
Outer Diameter, nominal	15.875 mm | 0.625 in
Wall Thickness Designation	SDR 11
Wall Thickness, minimum	1.397 mm | 0.055 in
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Material Specifications

Flexural Modulus, minimum	551.581 N/mm² | 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)
Melt Flow Rate Test Method	ASTM D1238
Melt Flow Rate, maximum	0.39 g/10 min

359998400

Mechanical Specifications

Minimum Bend Radius, unsupported	203.2 mm | 8 in
Tensile Property Test Method	ASTM D638
Tensile Strength at yield, minimum	20.684 N/mm² | 3000 psi
Pulling Tension, maximum	95.254 kg | 210 lb

Environmental Specifications

Environmental Stress Crack Resistance	Failure rate of 10% within 96 hours
Environmental Stress Test Method	ASTM D1693, ESCR Condition B

Packaging and Weights

Weight, net	68.456 kg/km | 46 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistence

5513592 | QR® 715 JCASS

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

Product Classification

Product Type	Coaxial hardline cable
Product Brand	QR®

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)

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

2500.0	10.21	3.11
2700.0	10.72	3.27
3000.0	11.46	3.49

Material Specifications

Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	PE
Outer Conductor Material	Aluminum

Mechanical Specifications

Pulling Tension, maximum	154.221 kg | 340 lb

Environmental Specifications

Corrosion Protection	Migraheal®
Environmental Space	Buried

Packaging and Weights

Packaging Type	Reel
Weight, gross	305.074 kg/km | 205 lb/kft

Regulatory Compliance/Certifications

Agency	**Classification**
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system