



## 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 preinstalled in conduit
- Serves businesses in a new commercial serving area
- Mitigates future cost of fiber installation
- Pre-installed in high density PE conduit for added physical protection
- One-step installation saves on construction cost
- 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 is 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

<b>Regional Availability</b>	North America
<b>Product Type</b>	Coaxial fiber cable-in-conduit
<b>Product Brand</b>	E#O®
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Cable Series</b>	P3 625
<b>Location of Manufacturing</b>	Catawba, North Carolina

## Dimensions

<b>Height</b>	60.325 mm   2.375 in
<b>Width</b>	60.325 mm   2.375 in
<b>Outer Jacket Thickness, nominal</b>	4.724 mm   0.186 in

## Material Specifications

<b>Outer Jacket Material</b>	High density polyethylene (HDPE)
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## Mechanical Specifications

<b>Minimum Bend Radius</b>	660.4 mm   26 in
<b>Pulling Tension, maximum</b>	1,170.268 kg   2580 lb

# 530093204 | E20-2" SDR13.5-625JCASS-16MT-12.7MB-TW

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## Environmental Specifications

**Environmental Space** Buried

## Packaging and Weights

**Weight, gross** 1,110.17 kg/km | 746 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
360000000	-	ConQuest® Empty Conduit, 12.7 mm, black
360000013	-	ConQuest® Empty Conduit, 12.7 mm, black
8220001	-	E#O® Coaxial/Microduct Hybrid Buried Cable PP Coated with Tone Wire
CX3799839	-	ConQuest® Empty Conduit, 2 in, SDR 13.5, terracotta
200T135 EMPTY DUCT COEX		



## 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 is 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

<b>Regional Availability</b>	North America
<b>Product Type</b>	Empty conduit
<b>Product Brand</b>	ConQuest®
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Color</b>	Terracotta
<b>Conduit Type</b>	Non-toneable
<b>Density Test Method</b>	ASTM D792A
<b>Density, maximum</b>	0.955 g/cm <sup>3</sup>   0.035 lb/in <sup>3</sup>
<b>Density, minimum</b>	0.941 g/cm <sup>3</sup>   0.034 lb/in <sup>3</sup>
<b>Design Standard</b>	ASTM D3350-05
<b>Location of Manufacturing</b>	Catawba, North Carolina
<b>Wall Type</b>	Smooth

## Dimensions

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

## Material Specifications

<b>Flexural Modulus, minimum</b>	551.581 N/mm <sup>2</sup>   80000 psi
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# 359998100

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<b>Flexural Property Test Method</b>	ASTM D790
<b>Hydrostatic Design Basis</b>	Not pressure rated
<b>Hydrostatic Design Test Method</b>	ASTM D2837
<b>Material Type</b>	High density polyethylene (HDPE)
<b>Melt Flow Rate Test Method</b>	ASTM D1238
<b>Melt Flow Rate, maximum</b>	0.39 g/10 min

## Mechanical Specifications

<b>Minimum Bend Radius, unsupported</b>	203.2 mm   8 in
<b>Tensile Property Test Method</b>	ASTM D638
<b>Tensile Strength at yield, minimum</b>	20.684 N/mm <sup>2</sup>   3000 psi
<b>Pulling Tension, maximum</b>	95.254 kg   210 lb

## Environmental Specifications

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

## Packaging and Weights

<b>Weight, net</b>	68.456 kg/km   46 lb/kft
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## Regulatory Compliance/Certifications

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

## \* Footnotes

**Environmental Stress Crack Resistance** ESCR—Environmental Stress Crack Resistance

# 359998400

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

## Product Classification

<b>Product Type</b>	Empty conduit
<b>Product Brand</b>	ConQuest®

## General Specifications

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

## Dimensions

<b>Inner Diameter, nominal</b>	12.725 mm   0.501 in
<b>Outer Diameter, nominal</b>	15.875 mm   0.625 in
<b>Wall Thickness Designation</b>	SDR 11
<b>Wall Thickness, minimum</b>	1.397 mm   0.055 in
<b>Nominal Size</b>	16 mm

## Material Specifications

<b>Flexural Modulus, minimum</b>	551.581 N/mm <sup>2</sup>   80000 psi
<b>Flexural Property Test Method</b>	ASTM D790
<b>Hydrostatic Design Basis</b>	Not pressure rated
<b>Hydrostatic Design Test Method</b>	ASTM D2837
<b>Material Type</b>	High density polyethylene (HDPE)
<b>Melt Flow Rate Test Method</b>	ASTM D1238
<b>Melt Flow Rate, maximum</b>	0.39 g/10 min

# 359998400

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## Mechanical Specifications

<b>Minimum Bend Radius, unsupported</b>	203.2 mm   8 in
<b>Tensile Property Test Method</b>	ASTM D638
<b>Tensile Strength at yield, minimum</b>	20.684 N/mm <sup>2</sup>   3000 psi
<b>Pulling Tension, maximum</b>	95.254 kg   210 lb

## Environmental Specifications

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

## Packaging and Weights

<b>Weight, net</b>	68.456 kg/km   46 lb/kft
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## Regulatory Compliance/Certifications

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

## \* Footnotes

**Environmental Stress Crack Resistance** ESCR—Environmental Stress Crack Resistance

# 360000000

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ConQuest® Empty Conduit, 12.7 mm, black

## Product Classification

<b>Product Type</b>	Empty conduit
<b>Product Brand</b>	ConQuest®

## General Specifications

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

## Dimensions

<b>Inner Diameter, nominal</b>	10.008 mm   0.394 in
<b>Outer Diameter, nominal</b>	12.7 mm   0.5 in
<b>Wall Thickness, minimum</b>	1.346 mm   0.053 in
<b>Nominal Size</b>	12.7 mm

## Material Specifications

<b>Flexural Modulus, minimum</b>	551.581 N/mm <sup>2</sup>   80000 psi
<b>Flexural Property Test Method</b>	ASTM D790
<b>Hydrostatic Design Basis</b>	Not pressure rated
<b>Hydrostatic Design Test Method</b>	ASTM D2837
<b>Material Type</b>	High density polyethylene (HDPE)
<b>Melt Flow Rate Test Method</b>	ASTM D1238
<b>Melt Flow Rate, maximum</b>	0.39 g/10 min

# 360000000

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## Mechanical Specifications

<b>Minimum Bend Radius, unsupported</b>	152.4 mm   6 in
<b>Tensile Property Test Method</b>	ASTM D638
<b>Tensile Strength at yield, minimum</b>	20.684 N/mm <sup>2</sup>   3000 psi
<b>Pulling Tension, maximum</b>	86.183 kg   190 lb

## Environmental Specifications

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

## Packaging and Weights

<b>Weight, net</b>	46.133 kg/km   31 lb/kft
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## Regulatory Compliance/Certifications

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

## \* Footnotes

**Environmental Stress Crack Resistance** ESCR—Environmental Stress Crack Resistance





## ConQuest® Empty Conduit, 12.7 mm, black

- \*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 is 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

<b>Regional Availability</b>	North America
<b>Product Type</b>	Empty conduit
<b>Product Brand</b>	ConQuest®
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Color</b>	Black
<b>Conduit Type</b>	Non-toneable
<b>Density Test Method</b>	ASTM D792A
<b>Density, maximum</b>	0.955 g/cm <sup>3</sup>   0.035 lb/in <sup>3</sup>
<b>Density, minimum</b>	0.941 g/cm <sup>3</sup>   0.034 lb/in <sup>3</sup>
<b>Design Standard</b>	ASTM D3350-05
<b>Location of Manufacturing</b>	Catawba, North Carolina
<b>Wall Type</b>	Smooth

## Dimensions

<b>Inner Diameter, nominal</b>	10.008 mm   0.394 in
<b>Outer Diameter, nominal</b>	12.7 mm   0.5 in
<b>Wall Thickness, minimum</b>	1.346 mm   0.053 in
<b>Nominal Size</b>	12.7 mm

## Material Specifications

<b>Flexural Modulus, minimum</b>	551.581 N/mm <sup>2</sup>   80000 psi
<b>Flexural Property Test Method</b>	ASTM D790
<b>Hydrostatic Design Basis</b>	Not pressure rated

# 360000013

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<b>Hydrostatic Design Test Method</b>	ASTM D2837
<b>Material Type</b>	High density polyethylene (HDPE)
<b>Melt Flow Rate Test Method</b>	ASTM D1238
<b>Melt Flow Rate, maximum</b>	0.39 g/10 min

## Mechanical Specifications

<b>Minimum Bend Radius, unsupported</b>	152.4 mm   6 in
<b>Tensile Property Test Method</b>	ASTM D638
<b>Tensile Strength at yield, minimum</b>	20.684 N/mm <sup>2</sup>   3000 psi
<b>Pulling Tension, maximum</b>	86.183 kg   190 lb

## Environmental Specifications

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

## Packaging and Weights

<b>Weight, net</b>	46.133 kg/km   31 lb/kft
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## Regulatory Compliance/Certifications

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## \* Footnotes

**Environmental Stress Crack Resistance** ESCR—Environmental Stress Crack Resistance

## E#O® Coaxial/Microduct Hybrid Buried Cable PP Coated with Tone Wire



- 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 preinstalled in conduit
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- One-step installation saves on construction cost
- Ideal for commercial data customers that also require video
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### Product Classification

<b>Product Type</b>	Coaxial fiber cable-in-conduit
<b>Product Brand</b>	E#O®

### General Specifications

<b>Conductor Elongation, maximum</b>	1 %
<b>Conductor Type</b>	Solid
<b>Insulation Elongation, minimum</b>	200 %

### Dimensions

<b>Conductor Diameter</b>	1.024 mm   0.04 in
<b>Insulation Thickness, nominal</b>	0.008 mm   0 in
<b>Conductor Gauge</b>	18 AWG

### Electrical Specifications

<b>Conductor Resistance</b>	87.598 ohms/km   26.7 ohms/kft
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### Material Specifications

<b>Insulation Material Type</b>	Polypropylene coated copper-clad steel wire
<b>Outer Jacket Material</b>	High density polyethylene (HDPE)

### Mechanical Specifications

<b>Conductor Tensile Strength, minimum</b>	827.371 N/mm <sup>2</sup>   120000 psi
<b>Insulation Tensile Strength, minimum</b>	31.026 N/mm <sup>2</sup>   4500 psi

# 8220001

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## Environmental Specifications

**Environmental Space**

Buried

## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015

**Classification**

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



ConQuest® Empty Conduit, 2 in, SDR 13.5, terracotta

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## General Specifications

<b>Color</b>	Terracotta
<b>Conduit Type</b>	Non-toneable
<b>Density Test Method</b>	ASTM D792A
<b>Density, maximum</b>	0.955 g/cm <sup>3</sup>   0.035 lb/in <sup>3</sup>
<b>Density, minimum</b>	0.941 g/cm <sup>3</sup>   0.034 lb/in <sup>3</sup>
<b>Design Standard</b>	ASTM D3350-05
<b>Location of Manufacturing</b>	Catawba, North Carolina
<b>Wall Type</b>	Smooth

## Dimensions

<b>Length</b>	762 m   2500 ft
<b>Inner Diameter, nominal</b>	50.876 mm   2.003 in
<b>Outer Diameter, nominal</b>	60.325 mm   2.375 in
<b>Wall Thickness Designation</b>	SDR 13.5
<b>Wall Thickness, minimum</b>	4.47 mm   0.176 in
<b>Nominal Size</b>	2 in

## Material Specifications

<b>Flexural Modulus, minimum</b>	551.581 N/mm <sup>2</sup>   80000 psi
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# CX3799839 | 200T135 EMPTY DUCT COEX

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<b>Flexural Property Test Method</b>	ASTM D790
<b>Hydrostatic Design Basis</b>	Not pressure rated
<b>Hydrostatic Design Test Method</b>	ASTM D2837
<b>Material Type</b>	High density polyethylene (HDPE)
<b>Melt Flow Rate Test Method</b>	ASTM D1238
<b>Melt Flow Rate, maximum</b>	0.39 g/10 min

## Mechanical Specifications

<b>Minimum Bend Radius, unsupported</b>	660.4 mm   26 in
<b>Tensile Property Test Method</b>	ASTM D638
<b>Tensile Strength at yield, minimum</b>	20.684 N/mm <sup>2</sup>   3000 psi
<b>Pulling Tension, maximum</b>	1,170.268 kg   2580 lb

## Environmental Specifications

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

## Packaging and Weights

<b>Weight, net</b>	791.703 kg/km   532 lb/kft
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## Regulatory Compliance/Certifications

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

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