# 530093204 12.7MB-TW

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

#### 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

Regional Availability North America

Product Type Coaxial fiber cable-in-conduit

Product Brand E#O®

Government Funding Build America Buy America (BABA) compliant\*

General Specifications

Cable Series P3 625

**Dimensions** 

 Height
 60.325 mm | 2.375 in

 Width
 60.325 mm | 2.375 in

 Outer Jacket Thickness, nominal
 4.724 mm | 0.186 in

Material Specifications

Outer Jacket Material High density polyethylene (HDPE)

Mechanical Specifications

Minimum Bend Radius 660.4 mm | 26 in

**Pulling Tension, maximum** 1,170.268 kg | 2580 lb

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

### **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

**ISO** 9001:2015

#### 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**

Regional AvailabilityNorth AmericaProduct TypeEmpty conduitProduct BrandConQuest®

**Government Funding**Build America Buy America (BABA) compliant\*

#### General Specifications

ColorTerracottaConduit TypeNon-toneableDensity Test MethodASTM 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
 6000 ft | 1,828.8 m

 Inner Diameter, nominal
 0.501 in | 12.725 mm

 Outer Diameter, nominal
 0.625 in | 15.875 mm

Wall Thickness Designation SDR 11

Wall Thickness, minimum 0.055 in | 1.397 mm

Nominal Size 16 mm

Material Specifications

Flexural Modulus, minimum 80000 psi | 551.581 N/mm<sup>2</sup>

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 MethodASTM D1238Melt Flow Rate, maximum0.39 g/10 min

Mechanical Specifications

Minimum Bend Radius, unsupported 8 in | 203.2 mm

Tensile Property Test Method ASTM D638

**Tensile Strength at yield, minimum** 3000 psi | 20.684 N/mm<sup>2</sup>

Pulling Tension, maximum 210 lb | 95.254 kg

**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** 46 lb/kft | 68.456 kg/km

Regulatory Compliance/Certifications

Agency Classification

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



#### \* Footnotes





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

### **Product Classification**

Product TypeEmpty conduitProduct BrandConQuest®

### General Specifications

ColorTerracottaConduit TypeNon-toneableDensity Test MethodASTM 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

Nominal Size 16 mm

### Material Specifications

Flexural Modulus, minimum 551.581 N/mm<sup>2</sup> | 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 MethodASTM D1238Melt Flow Rate, maximum0.39 g/10 min

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### 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/mm<sup>2</sup> | 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





#### ConQuest® Empty Conduit, 12.7 mm, black

#### **Product Classification**

Product TypeEmpty conduitProduct BrandConQuest®

General Specifications

**Color** Black

Conduit TypeNon-toneableDensity Test MethodASTM 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, nominal10.008 mm | 0.394 inOuter Diameter, nominal12.7 mm | 0.5 inWall Thickness, minimum1.346 mm | 0.053 in

Nominal Size 12.7 mm

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 TypeHigh density polyethylene (HDPE)

Melt Flow Rate Test MethodASTM D1238Melt Flow Rate, maximum0.39 g/10 min

## Mechanical Specifications

Minimum Bend Radius, unsupported 152.4 mm | 6 in

Tensile Property Test Method ASTM D638

**Tensile Strength at yield, minimum** 20.684 N/mm<sup>2</sup> | 3000 psi

**Pulling Tension, maximum** 86.183 kg | 190 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** 46.133 kg/km | 31 lb/kft

## Regulatory Compliance/Certifications

Agency Classification

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



## \* Footnotes





## ConQuest® Empty Conduit, 12.7 mm, black

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#### **Product Classification**

Regional AvailabilityNorth AmericaProduct TypeEmpty conduitProduct BrandConQuest®

**Government Funding**Build America Buy America (BABA) compliant\*

#### General Specifications

**Color** Black

Conduit TypeNon-toneableDensity Test MethodASTM 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** 10.008 mm | 0.394 in

Outer Diameter, nominal 12.7 mm | 0.5 in

Wall Thickness, minimum 1.346 mm | 0.053 in

Nominal Size 12.7 mm

### Material Specifications

Flexural Modulus, minimum 551.581 N/mm<sup>2</sup> | 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 MethodASTM D1238Melt Flow Rate, maximum0.39 g/10 min

Mechanical Specifications

Minimum Bend Radius, unsupported 152.4 mm | 6 in

Tensile Property Test Method ASTM D638

**Tensile Strength at yield, minimum** 20.684 N/mm<sup>2</sup> | 3000 psi

**Pulling Tension, maximum** 86.183 kg | 190 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** 46.133 kg/km | 31 lb/kft

Regulatory Compliance/Certifications

Agency Classification

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



### \* Footnotes



#### 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
- 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 Classification**

Product Type Coaxial fiber cable-in-conduit

Product Brand E#O®

General Specifications

Conductor Elongation, maximum 1 %
Conductor Type Solid

Insulation Elongation, minimum 200 %

**Dimensions** 

Conductor Diameter 1.024 mm | 0.04 in Insulation Thickness, nominal 0.008 mm | 0 in

Conductor Gauge 18 AWG

**Electrical Specifications** 

Conductor Resistance 87.598 ohms/km | 26.7 ohms/kft

Material Specifications

**Insulation Material Type** Polypropylene coated copper-clad steel wire

Outer Jacket Material High density polyethylene (HDPE)

Mechanical Specifications

Conductor Tensile Strength, minimum827.371 N/mm² | 120000 psiInsulation Tensile Strength, minimum31.026 N/mm² | 4500 psi

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## **Environmental Specifications**

**Environmental Space** Buried

## Regulatory Compliance/Certifications

Agency Classification

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



## CX3799839 | 200T135 EMPTY DUCT COEX



### ConQuest® Empty Conduit, 2 in, SDR 13.5, 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**

Regional AvailabilityNorth AmericaProduct TypeEmpty conduitProduct BrandConQuest®

**Government Funding**Build America Buy America (BABA) compliant\*

### General Specifications

ColorTerracottaConduit TypeNon-toneableDensity Test MethodASTM 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** 762 m | 2500 ft

 Inner Diameter, nominal
 50.876 mm | 2.003 in

 Outer Diameter, nominal
 60.325 mm | 2.375 in

Wall Thickness Designation SDR 13.5

**Wall Thickness, minimum** 4.47 mm | 0.176 in

Nominal Size 2 in

Material Specifications

Flexural Modulus, minimum 551.581 N/mm<sup>2</sup> | 80000 psi

Flexural Property Test Method ASTM D790

## CX3799839 | 200T135 EMPTY DUCT COEX

**Hydrostatic Design Basis**Not pressure rated

Hydrostatic Design Test Method ASTM D2837

Material Type High density polyethylene (HDPE)

Melt Flow Rate Test MethodASTM D1238Melt Flow Rate, maximum0.39 g/10 min

Mechanical Specifications

Minimum Bend Radius, unsupported 660.4 mm | 26 in

Tensile Property Test Method ASTM D638

Tensile Strength at yield, minimum $20.684 \text{ N/mm}^2 \mid 3000 \text{ psi}$ Pulling Tension, maximum $1,170.268 \text{ kg} \mid 2580 \text{ lb}$ 

**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** 791.703 kg/km | 532 lb/kft

Regulatory Compliance/Certifications

Agency Classification

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



#### \* Footnotes

