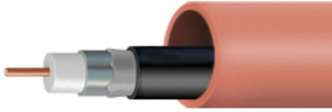


ConQuest® Cable in Conduit, 2 in, SDR 13.5, terracotta (P3® 875 JCASS)



- *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

This product was discontinued on: **March 13, 2015**

Product Classification

| | |
|------------------------------|--------------------------|
| Regional Availability | North America |
| Product Type | Coaxial cable-in-conduit |
| Product Brand | ConQuest® |
| Product Series | 875 Series |

General Specifications

| | |
|------------------------------|--------------|
| Cable Type | 875 Series |
| Cable-In-Conduit Type | P3® in duct |
| Color | Terracotta |
| Conduit Type | Non-toneable |
| Wall Type | Smooth |

Dimensions

| | |
|-----------------------------------|--------------------|
| Length | 731.52 m 2400 ft |
| Wall Thickness Designation | SDR 13.5 |
| Nominal Size | 2 in |

Packaging and Weights

| | |
|--------------------|------------------------------|
| Weight, net | 1,172.673 kg/km 788 lb/kft |
|--------------------|------------------------------|

CX3750075 | 200T135P3875JCASS COEX

Included Products

- 530101403 P3® 625 JCASS SM MT - 75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground
- CX3799839 200T135 EMPTY DUCT COEX - ConQuest® Empty Conduit, 2 in, SDR 13.5, terracotta

75 Ohm P3® Trunk and Distribution Cable, black PE jacket, flooded for underground



Product Classification

| | |
|----------------------|------------------------|
| Product Type | Coaxial hardline cable |
| Product Brand | P3® |
| Warranty | One year |

General Specifications

| | |
|--------------------------|------------|
| Cable Type | 625 Series |
| Construction Type | Swaged |
| Jacket Color | Black |

Dimensions

| | |
|--|----------------------|
| Cable Length | 731.52 m 2400 ft |
| Diameter Over Center Conductor, nominal | 3.48 mm 0.137 in |
| Diameter Over Dielectric, nominal | 14.351 mm 0.565 in |
| Diameter Over Inner Jacket, nominal | 17.653 mm 0.695 in |
| Diameter Over Jacket, nominal | 21.59 mm 0.85 in |
| Diameter Over Outer Conductor, nominal | 15.875 mm 0.625 in |
| Armor Thickness, nominal | 0.203 mm 0.008 in |
| Inner Jacket Thickness, nominal | 0.762 mm 0.03 in |
| Jacket Thickness, nominal | 0.762 mm 0.03 in |
| Outer Conductor Thickness, nominal | 0.762 mm 0.03 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 | 2.756 ohms/km 0.84 ohms/kft |
| dc Resistance, Loop, nominal | 3.609 ohms/km 1.1 ohms/kft |
| dc Resistance, Outer Conductor, nominal | 0.853 ohms/km 0.26 ohms/kft |
| Jacket Spark Test Voltage | 5000 Vac |
| Nominal Velocity of Propagation (NVP) | 87 % |
| 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 | 0.43 | 0.13 |
| 55.0 | 1.48 | 0.45 |
| 85.0 | 1.84 | 0.56 |
| 204.0 | 2.92 | 0.89 |
| 211.0 | 3.02 | 0.92 |
| 250.0 | 3.28 | 1 |
| 300.0 | 3.54 | 1.08 |
| 350.0 | 3.87 | 1.18 |
| 400.0 | 4.17 | 1.27 |
| 450.0 | 4.43 | 1.35 |
| 500.0 | 4.69 | 1.43 |
| 550.0 | 4.92 | 1.5 |
| 600.0 | 5.18 | 1.58 |
| 750.0 | 5.84 | 1.78 |
| 865.0 | 6.33 | 1.93 |
| 1002.0 | 6.92 | 2.11 |
| 1218.0 | 7.62 | 2.32 |
| 1500.0 | 8.74 | 2.66 |
| 1794.0 | 9.7 | 2.96 |

530101403 | P3® 625 JCASS SM MT

| | | |
|---------------|-------|------|
| 1800.0 | 9.72 | 2.96 |
| 2000.0 | 10.34 | 3.15 |
| 2200.0 | 10.95 | 3.34 |
| 2500.0 | 11.81 | 3.6 |
| 2700.0 | 12.37 | 3.77 |
| 3000.0 | 13.19 | 4.02 |

Material Specifications

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

Mechanical Specifications

| | |
|------------------------------------|---------------------|
| Minimum Bend Radius, bonded | 114.3 mm 4.5 in |
| Pulling Tension, maximum | 215.456 kg 475 lb |

Environmental Specifications

| | |
|-----------------------------|------------|
| Corrosion Protection | Migraheal® |
| Environmental Space | Buried |

Packaging and Weights

| | |
|-----------------------|----------------------------|
| Packaging Type | Reel |
| Weight, gross | 278.287 kg/km 187 lb/kft |

Regulatory Compliance/Certifications

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





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 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/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

| | |
|-----------------------------------|----------------------|
| 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 ² 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 Method | ASTM D1238 |
| Melt Flow Rate, maximum | 0.39 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 N/mm ² 3000 psi |
| Pulling Tension, maximum | 1,170.268 kg 2580 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

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistance