

**Broadband Solutions**

3799154 | 2000(TD)110WP1100TAPE

**Toneable ConQuest® Empty Conduit, 2 in, SDR 11, orange, with pull tape**

## Dimensions

|                            |                       |
|----------------------------|-----------------------|
| Nominal Size               | 2 in                  |
| Wall Thickness Designation | SDR 11                |
| Inner Diameter, nominal    | 48.692 mm   1.917 in  |
| Length                     | 762.00 m   2500.00 ft |
| Outer Diameter, nominal    | 60.325 mm   2.375 in  |
| Wall Thickness, minimum    | 5.486 mm   0.216 in   |
| Weight                     | 640.0 lb/kft          |

## General Specifications

|              |           |
|--------------|-----------|
| Color        | Orange    |
| Conduit Type | Toneable  |
| Wall Type    | Smooth    |
| Brand        | ConQuest® |
| Warranty     | One year  |

## Material Specifications

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Density Test Method                   | ASTM D792A                          |
| Density, maximum                      | 0.955 g/cm <sup>3</sup>             |
| Density, minimum                      | 0.941 g/cm <sup>3</sup>             |
| Design Standard                       | ASTM D3350-05                       |
| Environmental Stress Crack Resistance | Failure rate of 10% within 96 hours |
| Environmental Stress Test Method      | ASTM D1693, ESCR Condition B        |
| Flexural Modulus, minimum             | 552 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 Method            | ASTM D1238                          |
| Melt Flow Rate, maximum               | 0.39 g/10 min                       |
| Tensile Property Test Method          | ASTM D638                           |
| Tensile Strength at yield, minimum    | 21 N/mm <sup>2</sup>   3000 psi     |

## Mechanical Specifications

|                                  |                    |
|----------------------------------|--------------------|
| Minimum Bend Radius, unsupported | 660.4 mm   26.0 in |
|----------------------------------|--------------------|

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|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| Pulling Tension, maximum | 1408.4 kg   3105.0 lb                                    |
| Pulling Tension Note     | Applies to products manufactured after December 31, 2012 |

## Pull Line Specifications

|                   |                      |
|-------------------|----------------------|
| Breaking Strength | 499.0 kg   1100.0 lb |
| Material Type     | Polyester            |
| Pull Line Type    | Tape                 |

## Tone Wire Specifications

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| Conductor Diameter                   | 1.0236 mm   0.0403 in                       |
| Conductor Elongation, maximum        | 1 %                                         |
| Conductor Gauge                      | 18 AWG                                      |
| Conductor Resistance                 | 26.7 ohms/kft                               |
| Conductor Tensile Strength, minimum  | 827 N/mm <sup>2</sup>   120000 psi          |
| Conductor Type                       | Solid                                       |
| Insulation Dielectric Strength       | 3200 V/mil                                  |
| Insulation Elongation, minimum       | 250 %                                       |
| Insulation Material Type             | Fluoropolymer coated copper-clad steel wire |
| Insulation Tensile Strength, minimum | 21 N/mm <sup>2</sup>   3000 psi             |
| Insulation Thickness, nominal        | 0.203 mm   0.008 in                         |

## Regulatory Compliance/Certifications

| Agency        | Classification                                                                 |
|---------------|--------------------------------------------------------------------------------|
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |

### \* Footnotes

Environmental Stress Crack Resistance ESCR—Environmental Stress Crack Resistance