# Fabric Inner Duct Brochure

Standard, Detectable, Plenum & Riser. Fabric inner duct refer to the different conduit application sizes and number of cells/pathways per product type. Most product lines are offered in all of the product type variations.

A versatile solution for the complex problems faced by today's engineers, contractors and network providers. Manufactured from internally designed and produced materials, this model yields superior performance over existing rigid innerduct.

Standard fabric inner duct is the primary product line used in common outside plant applications, including long lines, under-bridge; road, river and rail borings; under streets and all the way to building entrance points. Standard fabric inner duct is available for conduit sizes ranging from 1" to 4", and in 1-, 2- and 3-cell configurations - - giving you the flexibility to choose the right product for your system and applications.

**Features:**

●Melt point of 419° F - almost 2X of HDPE

●Resistant to ground chemicals and petroleum products

Pre-lubed for lower friction during cable installation

●Pull tape included

Dimensions:

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| Item # | Cable max diameter(mm) | fabric inner duct size（±2.0mm）（mm） | | | | |
|---|---|---|---|---|---|---|
| | | Hole perimeter | Hole Diameter | Overall width A | Seam width B | Fold width C |
| FZ8638-x | 38 | 163 | 52 | 86 | 4 | 8 |
| FZ6428-x | 28 | 121 | 38 | 64 | | |
| FZ5624-X | 24 | 103 | 33 | 55 | | |
| FZ5222-x | 22 | 97 | 31 | 52 | | |
| FZ4418-x | 18 | 81 | 26 | 44 | | |
| FZ3614-x | 14 | 65 | 21 | 36 | | |
| FZ3212-x | 12 | 56 | 18 | 32 | | |
| FZ2810-x | 10 | 49 | 15 | 28 | | |

## Physical Characteristics

**Tensile strength of textile inner duct**

| Item # | Tensile strength |
|---|---|
| FZ8638-1 | >760kg |
| FZ8638-2 | >1440kg |
| FZ8638-3 | >2120kg |
| FZ6428-1 | >592kg |
| FZ6428-2 | >1104kg |
| FZ6428-3 | >1616kg |
| FZ5222-1 | >496kg |
| FZ5222-2 | >900kg |
| FZ5222-3 | >1300kg |
| FZ4418-1 | >432kg |
| FZ4418-2 | >784kg |
| FZ4418-3 | >1136kg |
| FZ3614-1 | >368kg |
| FZ3614-2 | >650kg |
| FZ3614-3 | >940kg |
| FZ3212-1 | >332kg |
| FZ3212-2 | >584kg |
| FZ3212-3 | >836kg |
| FZ2810-1 | >304kg |
| FZ2810-2 | >528kg |
| FZ2810-3 | >752kg |

**Ductility**

The ductility of textile sub-pipe should be less than 2% under 50kg tensile force.

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**Transverse tear strength (seam edge strength)**

Transverse tear strength (seam edge strength) should be not less than 80N/cm.

**Traction rope breaking strength**

Flat traction rope breaking strength should be more than 565kg, round traction rope breaking strength should be more than 450kg.

**Sewing requirements**

The needle density shall not be less than 2.0±0.2 stitches/cm, the spacing between stitches shall be uniform and neat, the distance between the stitches and the edge shall be consistent, and there shall be no obvious deviation from the left and right.

**Abrasion resistance**

Load 730g, cycle 90 times/minute, cycle 10000 times, the flexible sub-tube shall not be broken

1.3 Chemical properties

**Melting point**

The melting point of the textile sub-pipe is greater than 215 ℃

**Halogen-free performance**

The amount of halogen produced by the burning of the textile sub-pipe should be zero.

**Working environment**

Textile sub-pipe working temperature should be: -30 ℃ - +100 ℃. Textile sub-pipe should not be exposed to sunlight environment for a long time, it should be used in the communication pipeline.

**Service life**

In the general air, rainwater and sewage environment of the communication pipeline, textile sub-pipe netting, sewing thread and traction rope should be used for more than 25 years.

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