# Milliken Infrastructure
# OptiCell™
## Flexible Innerduct System



OptiCell™ innerduct is a flexible fabric system designed specifically for increasing conduit capacity. The unique textile construction allows OptiCell™ innerduct to conform to the shape of cables placed within, greatly reducing wasted space and increasing cable deployment efficiency.

## 4G 36mm Fabric Innerduct

### Standard

| | |
|---|---|
| 4G 3614-1* | 1-Cell Standard |
| 4G 3614-2* | 2-Cell Standard |
| 4G 3614-3* | 3-Cell Standard |

### Application

Minimum Duct/Conduit ID (3-Cell): 34mm
See Design Manual for 1 or 2-cell recommendations.
Maximum cable diameter for each Cell: 14mm
See Design Manual for Overlay and Multiple packs installation.

### Supporting Products

Milliken Pull Tapes (Standard)

| | |
|---|---|
| MT565-xx | 12mm Pull Tape |
| MT815-xx | 16mm Pull Tape |
| MT1135-xx | 20mm Pull Tape |

Milliken Pull Tapes (Detectable)

| | |
|---|---|
| DT565-xx | 12mm Pull Tape |
| DT815-xx | 16mm Pull Tape |
| DT1135-xx | 20mm Pull Tape |

## Technical Information

| | |
|---|---|
| **Material Fabric** | Warp - Polyester Monofilament<br>Filling - Nylon/Polyester |
| **Material Pull Tape** | High Tenacity Multifilament Polyester<br>12mm / Optional 20mm |
| **Sewing Line** | Bonded Polyester |
| **Temperature range** | -30°C to 100°C |
| **Lubricate** | 100% Silicon Oil |
| **Breaking Tensile** | 3-Cell    >982kg<br>2-Cell    >686kg<br>1-Cell    >385kg |
| **% Elongation @ 50kgs** | <3% |
| **Melting Point** | >215°C |
| **Thermal Expansion** | 8.4mm/100m/5°C |
| **Detectable Wire** | Optional AWG 18Ga. (0.75mm2) Solid Core Copper with Vinyl and Nylon Insulation |
| **Reel Length** | 1000m (Standard) Min 500m/ Max 6300m (3-cell) |
| **Chemical Resistance** | Resistance to ground chemicals and petroleum products |

### Tools for Installation

| | |
|---|---|
| Swivel | Pull Tape |
| Scissors | Extra Lubricant |
| Vinyl Tape | Cable grip |

\* Designate color of thread RD(Red), BK(Black), BL(Blue), YL(Yellow), GR(Green)
xx Designate spool length 1000 (1000m spool), 1500 (1500m spool)

## Key Features

- Configurations in 1, 2, and 3-cells available for all products
- 4-cell configuration available in 44mm and 64mm sizes
- Pre-installed color-coded pulling tapes are standard
- Pre-lubricated for lower pulling tensions