



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 44mm Fabric Innerduct

Technical Information

Material Fabric	Warp - Polyester Monofilament Filling - Nylon/Polyester
Material Pull Tape	High Tenacity Multifilament Polyester 12mm / Optional 20mm
Sewing Line	Bonded Polyester
Temperature range	-30°C to 100°C
Lubricate	100% Silicon Oil
Breaking Tensile	4-Cell >1600kg 3-Cell >1100kg 2-Cell >800kg 1-Cell >400kg
% Elongation @ 50kgs	<3%
Melting Point	>215°C
Thermal Expansion	8.4mm/100m/5°C
Detectable Wire	Optional AWG 18Ga. (0.75mm ²) 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

Key Features

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

Standard

4G 4418-1*	1-Cell Standard
4G 4418-2*	2-Cell Standard
4G 4418-3*	3-Cell Standard
4G 4418-4*	4-Cell Standard

Detectable

4G D4418-1*	1-Cell Detectable
4G D4418-2*	2-Cell Detectable
4G D4418-3*	3-Cell Detectable

Application

Minimum Duct/Conduit ID (3-Cell): 42mm
 See Design Manual for 1, 2, or 4-cell recommendations.
 Maximum cable diameter for each Cell: 18mm
 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

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)

The information contained in this document is subject to change without notice.