



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.

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
Lubricant	100% Silicone Oil
Breaking Tensile	3-Cell >2181kg 2-Cell >1482kg 1-Cell >782kg
% 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

4G 86mm Fabric Innerduct

Standard

4G 8638-1*	1-Cell Standard
4G 8638-2*	2-Cell Standard
4G 8638-3*	3-Cell Standard

Detectable

4G D8638-1*	1-Cell Detectable
4G D8638-2*	2-Cell Detectable
4G D8638-3*	3-Cell Detectable

Application

Minimum Duct/Conduit ID (3-Cell): 100mm
 See Design Manual for 1 or 2-cell recommendations.
 Maximum cable diameter for each Cell: 38mm
 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)	



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