

Quick Reference Specification Sheet

4G 86mm Fabric Innerduct



MaxCell™ is a flexible fabric innerduct system designed specifically for increasing efficient cable deployments. The unique textile construction allows MaxCell™ to conform to the shape of cables placed within, greatly reducing wasted space.

Technical Information

Material Fabric	Warp - Polyester Monofilament Filling - Nylon/Polyester
Material Pull Tape	High Tenacity Multifilament Polyester 565kg (5.54kN) / Optional 1135kg (11.13kN)
Sewing Line	High Tensile Polyester
Temperature range	-30°C to 100°C
Lubricate	100% Silicon Oil
Friction	-75% Lower Resistance
Breaking Tensile#	1 Cell >782kgs 2 Cell >1482kgs 3 Cell >2181kgs
% Elongation @ 50kgs	<5%
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	2500m (Standard) Min 150m/ Max 4000m (3 cell)
Chemical Resistance**	Resistance to ground chemicals and petroleum products

According to ASTM D5035.

** Refer to 4G Technical Manual for more details

Key Features

- Configurations in 1, 2, and 3 cells to match network requirements
- Available in Standard, Detectable, and Fire Resistant versions
- Pre-installed color-coded pulling tapes are standard
- Pre-lubricated for lower pulling tensions

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: 100mm
Maximum cable diameter for each Cell: 38mm
See Design Manual for Overlay and Multiple packs installation.

Accessories

Milliken Pull Tapes (Standard)

MT565-xx	565kg Pull Tape
MT815-xx	815kg Pull Tape
MT1135-xx	1135kg Pull Tape

Milliken Pull Tapes (Detectable)

DT565-xx	565kg Pull Tape
DT815-xx	815kg Pull Tape
DT1135-xx	1135kg 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)

xx Designate spool length 900 (900m spool), 1500 (1500m spool)

Milliken Design, Inc.
PO Box 220, Belfield NSW Australia
Ph. +61 2 97035410
MillikenInfraSol@milliken.com
www.maxcell.com.au

