

CX-PMDC Series

MicroDrop Indoor/Outdoor Rugged Fiber Cable

Built for Seamless Fiber Transitions — From Demarc to Device.

Introduction

The ComponexX CX-PMDC Series MicroDrop cable is a compact, all-dielectric fiber optic solution designed for seamless indoor/outdoor use.

It provides a direct connection from the network demarcation point to the customer location, eliminating the need for additional transition cables or field terminations.

The optional "S" ordering configuration includes a pre-peeled section of the outer jacket that exposes a clear 900 μm subunit — nearly invisible once routed indoors — offering a clean, professional installation.



Applications

- FTTH and MDU subscriber drops
- Transition from outdoor demarcation to indoor ONT
- Indoor/outdoor patching and jumper use
- Temporary service connections or test leads

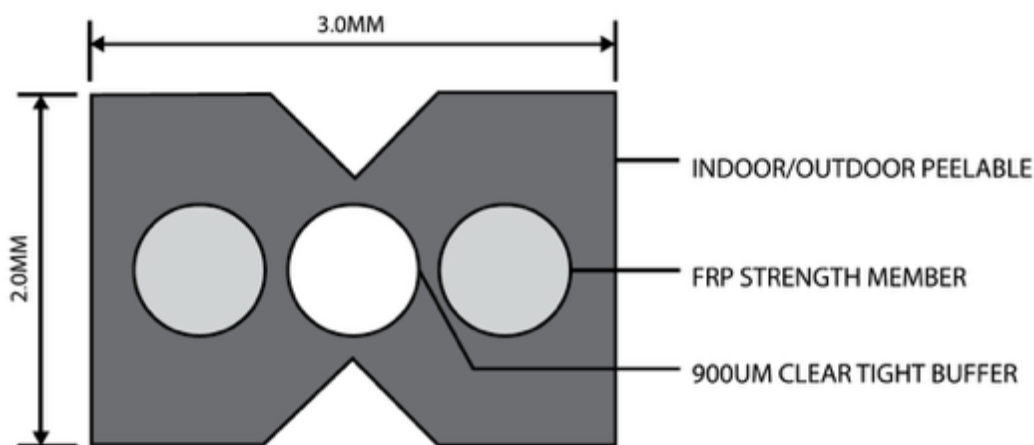
Key Features and Benefits

- **Seamless Indoor-to-Outdoor Transition** – Directly connects OSP demarcation to customer ONT or jack without extra junctions.
- **Tool-Free Jacket Removal** – Peelable outer jacket simplifies installation; no cutting tools required (available with "S" option).
- **Factory Terminated** – Delivered fully connectorized for immediate deployment.
- **All-Dielectric Construction** – No metallic components, ensuring safety and durability.
- **Compact Rugged Design** – Small-diameter jacket suitable for tight routing and indoor concealment.
- **Nearly Invisible Indoor Run** – 900 μm clear subunit on "S" version minimizes visual impact in living or office spaces.
- **No Field Connector Needed** – Reduces installation time and ensures consistent optical performance.

Compliance & Standards

Complies with the following industry standards for performance and reliability:

- **Telcordia GR-409** – Indoor cable requirements
- **Telcordia GR-326** – Connector reliability and testing
- **Telcordia GR-20** – Outside plant fiber cable
- **ANSI/ICEA S-104-696** – Indoor/outdoor optical fiber cable construction



Specifications

Parameter	Specification	Notes
Fiber Type	Single mode G.657.B3(Bend-Insensitive)	Standard for indoor/outdoor drop use
Jacket Material	Rugged LSZH or OFNR-rated thermoplastic	UV-resistant, flame-retardant
Jacket Outer Diameter	3.0 mm (nominal)	Compact design for concealed runs
Subunit Diameter	900 µm (clear coating on "S" version)	Peelable and nearly invisible indoors
Strength Members	Aramid yarn	All-dielectric, non-conductive
Cable Weight	~10 kg/km	Lightweight, easy handling
Tensile Strength (Short-Term)	600 N	Compliant with GR-409 requirements
Tensile Strength (Long-Term)	300 N	Suitable for continuous runs
Crush Resistance	1000 N/100 mm	Tested to Telcordia GR-20 standards
Bend Radius (Loaded)	$\geq 20 \times$ cable OD	Ensures long-term reliability
Bend Radius (Unloaded)	$\geq 10 \times$ cable OD	Maintains signal integrity
Operating Temperature	-40 °C to +70 °C	Outdoor rated, UV-resistant
Storage Temperature	-40 °C to +75 °C	Safe for extended warehousing
Optical Performance	≤ 0.30 dB (Insertion Loss, typical) ≥ 55 dB (Return Loss, SC/APC)	Factory-tested connectors
Flame Rating	OFNR / LSZH compliant	Suitable for riser and indoor routing
Compliance Standards	GR-20, GR-409, GR-326, ANSI/ICEA S-104-696	Certified design parameters



Common Configurations

Part Number	Connector Type	Length	Jacket Type	Notes
CX-PMDC-SASA010F-S	SC/APC – SC/APC	10 ft	OFNR, Peelable	Factory terminated, "S" option
CX-PMDC-SASA050F-S	SC/APC – SC/APC	50 ft	OFNR, Peelable	Factory terminated, "S" option
CX-PMDC-SASA100F-S	SC/APC – SC/APC	100 ft	OFNR, Peelable	Factory terminated, "S" option
CX-PMDC-SASA200F-S	SC/APC – SC/APC	200 ft	OFNR, Peelable	Factory terminated, "S" option

Custom Model Number Matrix

CX-PMDC	SA	XX	XXX	X	-XX
	Connector A	Connector B	Length	UOM	Optional Pre-Peel
	SA=SC-APC	NA=None SA=SC-APC	3 Digit, e.g.001	F=Feet M=Meters	Blank = No Pre-Peel, No Pull Sock PE = No Pre-Peel, with Pull Sock A = 1/4" of Peel Exposed with No Pull Sock B = 1/4" of Peel Exposed with Pull Sock