

## CX-MST-9/10 Port

### CX-MST Multiport Service Terminal (9/10 Port)

*High-Density, Ruggedized Fiber Access Terminal for FTTH and Outdoor Networks*

#### Introduction

The ComponexX CX-MST-9/10 is a compact, sealed fiber distribution terminal engineered for **fast field deployment and long-term durability**.

It supports up to **10 FastConnect drop cables** and uses a **mechanical sealing system** that simplifies installation while ensuring **IP68-level protection** against dust, water, and environmental stress.

Designed for **FTTH and over-ground network applications**, the CX-MST-9/10 delivers **plug-and-play performance, flexible mounting options**, and full **compatibility with industry-standard hardened adapters**.



#### Applications

- **FTTH Network Distribution** — Feeder-to-drop connectivity using pre-terminated Fast Connect assemblies
- **Aerial and Wall-Mount Installations** — Supports wall/pole/Aerial mounting
- **Rural and Over-Ground Deployments** — Compact footprint and IP68 seal ensure stable performance in exposed environments
- **Quick-Connect Field Use** — Fast Plug system allows drop cables to be installed without opening the closure, reducing setup time and contamination risk

#### Key Features and Benefits

- **Fast Deployment:** Plug-and-play system eliminates fusion splicing; supports external cable fastening
- **Versatile Mounting:** Pole, wall, or aerial installation supported
- **Compact Design:** Small form factor with clean, professional finish
- **Flexible Routing:** Fibers from the same loose tube can be dispatched into separate trays.
- **Sealing & Strength:** Mechanical sealing; supports  $\Phi 5.0 - 12.0$  mm cable diameters with IP68 protection
- **Build Options:** Available in **PC+ABS reinforced polymer**
- **Compatibility:** Works with OptiTap, Mini-SC hardened adapters
- Optional **integrated PLC splitter (1×8 or 1×9)** for distribution flexibility

## Specifications

| Parameter              | Details                                                |
|------------------------|--------------------------------------------------------|
| Model                  | CX-MST-9/10 (8+1 / 9+1 Port)                           |
| Termination Capacity   | 10 Fast Connect ports                                  |
| Splicing Capacity      | 8 cores                                                |
| Cable Inlet / Outlet   | 2 pcs (Φ5.0–12.0 mm main cable) / 8 pcs hardened drops |
| Installation           | Pole, wall, or aerial mounting                         |
| Application            | Over-ground and outdoor use                            |
| Dimensions (L × W × H) | 337 × 102 × 92 mm                                      |
| Package Dimensions     | 350 × 105 × 100 mm                                     |
| Net Weight             | 0.8 – 1.5 kg (depending on adapter type)               |
| Material               | Reinforced PC+ABS / 304 Stainless Steel                |
| Color                  | Black                                                  |
| Protection Rating      | IP68 / RoHS Compliant                                  |
| Sealing Mode           | Mechanical                                             |
| Adapter Type           | Compatible with OptiTap, Mini-SC,                      |
| Operating Temperature  | –40 °C to +65 °C                                       |
| Storage Temperature    | –40 °C to +80 °C                                       |
| Humidity               | ≤ 93 % RH                                              |
| Insertion Loss         | ≤ 0.2 dB                                               |
| Durability             | > 500 matings                                          |

## Mechanical and Installation Data

| Item               | Specification                                |
|--------------------|----------------------------------------------|
| Port Count         | 9 / 10 SC/APC Adapters                       |
| Material           | Reinforced PC+ABS (PV blend optional)        |
| Ingress Protection | IP68 rated                                   |
| Cable Entry / Exit | Red (In) / Blue (Out) glands                 |
| Mounting           | Aerial, Wall, or Pole                        |
| Tensile Strength   | ≥ 1200 N                                     |
| Humidity           | ≤ 95 % RH                                    |
| Standards          | Telcordia GR-771, GR-1209, GR-1221 Compliant |

## PLC Splitter Performance

| Parameter            | CX-MST-9/10 Specification                  |
|----------------------|--------------------------------------------|
| Test Wavelength (nm) | 1310 / 1490 / 1550                         |
| Fiber Type           | SM G.657A1/A2                              |
| Insertion Loss       | ≤ 10.5 dB (1×8) / ≤ 16.5 dB (1×8)+9 ≤2.2dB |
| Return Loss          | ≥ 55 dB (APC)                              |
| Directivity          | ≥ 55 dB                                    |
| Uniformity           | ≤ 0.8 dB                                   |
| Operating Temp       | –40 °C to +65 °C                           |
| Compliance           | Telcordia GR-1221 / GR-1209                |

## Diagrams

