ExTell Dome Type Fiber Optic Splice Closure

Dome Splice Protection | Rugged, Re-enterable Sealing for Aerial & Underground Fiber Networks

Reference Standards : IEC 61753-1 | IEC 62134-1 | IEC 61300-2 / -3 | IEC 60529 | Telcordia GR-771-CORE | ITU-T L.13 | RoHS 2011/65/EU

48F	4 Ports	4 × 12F	IP68	Mechanical	-40 to +65 °C
Fiber capacity	Ø5–17 mm cable	Splice trays	Ingress protection	Seal-fitting sealing	Operating temp.

Product Overview

Fiber optic splice closures protect the most critical point of an outside-plant network, the fusion splice, sealing it against water, dust, temperature extremes and mechanical stress. The ExTell Dome Type Fiber Optic Splice Closure manages up to 48 loose-tube fibers (72 ribbon) on four 12F booklet splice trays in a compact vertical dome.

The 310 mm × Ø190 mm engineering-plastic closure seals its dome to the base through a seal fitting rated IP68, secured by a clamping hoop. Four cable entry / exit ports accept Ø5–17 mm cables for straight-through or branch joints, with pressure-test valve and earthing provisions.

Product Image



Product Highlights

- **Up to 48F capacity**
  48 loose-tube or 72 ribbon fibers, compact dome.
- **4 × 12F splice trays**
  Booklet trays; 40 mm fiber bend radius.
- **IP68 sealed dome**
  Seal fitting between dome and base keeps water out.
- **4 cable entry / exit ports**
  Ø5–17 mm cables through sealed entry tubes.
- **Pressure-test valve**
  Air test verifies the seal after closing.
- **Earthing provision**
  Bonds metallic cable elements for safe grounding.
- **Engineering-plastic body**
  Resists acid, alkali, salt and ageing outdoors.
- **Wide temperature range**
  Rated for -40 °C to +65 °C ambient operation.
- **Applications**
  Aerial / Pole / Wall-mount / Manhole / Direct-buried
- **Network roles**
  FTTx / Access / Distribution / Branch joints

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REV: 10.1
Date: 27/10/2025

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Technical Specifications

Fiber Capacity & Splice Management

Parameter	Specification
Fiber capacity – loose tube (bunchy)	12 to 48 fibers
Fiber capacity – ribbon	Up to 72 fibers
Splice tray configuration	4 × 12F splice trays (48F)
Maximum splice trays	4
Fibers per tray	4, 6, 8 or 12 (loose tube)
Tray type	Booklet-style, individually turnable trays
Fiber holding tray	1, for fibers with protective coating
Fiber winding radius	40 mm
Splice protection	Heat-shrink splice protection sleeves
Connection types	Straight-through (direct) and branch (splitting)

Cable Entry & Sealing

Parameter	Specification
Cable entry / exit ports	4
Cable diameter range	Ø5 – Ø17 mm
Sealing method	Mechanical, seal fitting
Dome-to-base sealing	Seal fitting, secured by a plastic clamping hoop
Cable sealing	Gasket rings in the entry / exit tubes, with seal tape to build up smaller cable diameters
Pressure testing	Pressure-test valve, 1 set
Re-entry	Re-enterable; clamp-secured dome for maintenance access

Mechanical & Physical

Parameter	Specification
Form factor	Dome (vertical) splice closure
Outside dimensions (H × Ø)	310 × 190 mm
Dome cover (H × Ø)	208 × 132 mm
Weight	1.83 – 1.91 kg (net, excluding packaging)
Housing material	Engineering plastic
Colour	Black
Closure mechanism	Plastic clamping hoop between dome and base
Earthing	Earthing device, 1 set

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Environmental & Performance

Parameter	Specification
Ingress protection	IP68 (IEC 60529)
Operating temperature	-40 °C to +65 °C
Material resistance	Resistant to acid, alkali and salt corrosion; anti-ageing
Service environment	Outdoor: aerial, pole, wall, manhole and buried

Installation & Applications

Parameter	Specification
Installation methods	Aerial, pole, wall mounting, manhole / pipeline and buried
Mounting hardware	Metal hoop for wall and pole mounting, supplied
Jointing	Straight-through and branch
Network applications	Access and distribution splice points in FTTx and outside-plant networks

Included Components & Accessories

Component	Quantity / Function
Dome cover and base	1 set · with seal fitting and plastic clamping hoop
Splice trays	4 · booklet trays, 12F each
Fiber holding tray	1
Pressure-test valve	1 set
Earthing device	1 set · bonds metallic cable components
Earthing wire	1 · links earthing devices
Metal hoop	1 set · wall and pole mounting
Seal tape	1 roll · builds up cable diameter at the gasket ring
Insulation tape	1 roll · builds up cable diameter for fixing
Measuring paper	1 · sizes the taped cable perimeter
Special wrench	2 · strength-member and entry-tube nuts
Heat-shrink splice sleeves	Supplied per fiber capacity
Nylon ties	Supplied per fiber capacity
Desiccant	1 bag · placed inside before sealing
Abrasive cloth	1 · prepares the cable sheath
Labeling paper	1 · fiber identification

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Compliance & Standards

Standard Reference	Description
IEC 61753-1	Fibre optic interconnecting devices and passive components – Performance standard – Part 1: General and guidance.
IEC 62134-1	Fibre optic interconnecting devices and passive components – Fibre optic closures – Part 1: Generic specification.
IEC 61300-2 series	Basic test and measurement procedures – Tests: vibration (2-1), cable retention (2-4), impact (2-12), change of temperature (2-22), salt mist (2-26), re-entry (2-33) and cable bending (2-37).
IEC 61300-3 series	Basic test and measurement procedures – Examinations and measurements, including visual examination (3-1).
IEC 60529	Degrees of protection provided by enclosures (IP Code).
Telcordia GR-771-CORE	Generic requirements for fiber optic splice closures.
ITU-T L.13	Performance requirements for passive optical nodes: sealed closures for outdoor environments.
RoHS 2011/65/EU	Restriction of the use of certain hazardous substances in electrical and electronic equipment, including applicable amendments.
ISO 9001:2015	Quality management system: design, manufacturing, inspection and testing.
ISO 14001:2015	Environmental management system: materials, production processes and waste control.
ISO 45001:2018	Occupational health and safety management system: design and production operations.

Ordering Information

Part Number	Product Description
EDMSC-048-P4R-S8-BK	ExTell Dome Type Fiber Optic Splice Closure | Up to 48F (Loose Tube) / 72F (Ribbon) | 4 Cable Entry / Exit Ports | 4 × 12F Splice Tray | IP68 Environmental Protection | Engineering Plastic Housing | Seal-Fitting Sealing | Black.

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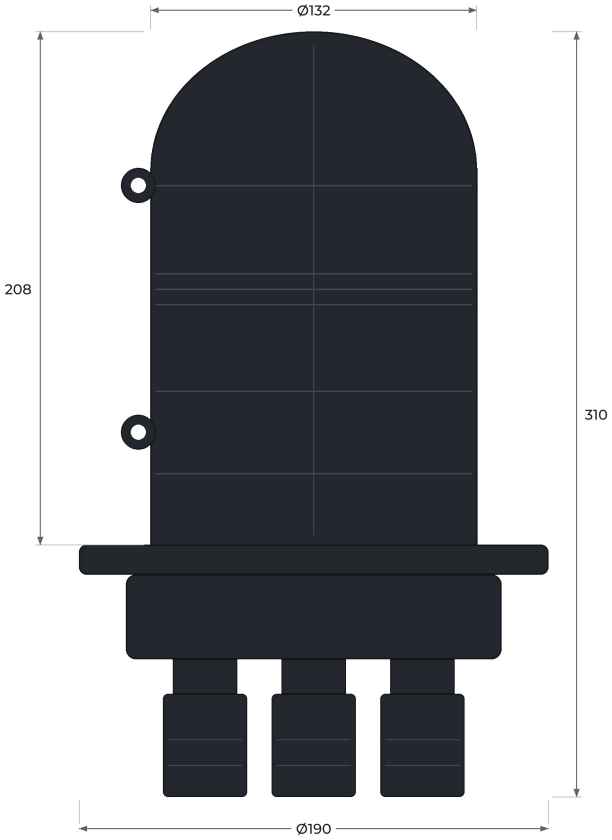
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Drawing Layout

FRONT VIEW



Dimensions in mm. Overall (H × Ø) 310 × 190; dome cover (H × Ø) 208 × 132; detail features are illustrative.

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