

FIBER DISTRIBUTION BOXES

FTTH Distribution Box, 16-Core

Model **PSK-FDB-016** · Passive outdoor enclosure - no power required.

Wall- or pole-mounted outdoor distribution enclosure that terminates one incoming feeder and serves up to sixteen subscriber drops from a single lockable point. An integrated splitter bay, stacked splice trays and sealed multi-port cable entries make it the standard aggregation node of the FTTH last mile.

Overview

The 16-core FTTH distribution box is the point in an optical access network where a distribution cable is opened, split and handed over to individual subscriber drops. The enclosure combines four functions in one housing: feeder-cable anchoring and sealing, fiber splicing on stackable trays, a bay for one 1x16 (or two 1x8) PLC splitter modules, and a field of SC/APC adapter ports where drop cables terminate. A hinged, gasketed door with a double latch and padlock point keeps the optical layout protected yet fully accessible for service work.

In operation, the feeder enters through a mechanically sealed gland and its buffer tubes are routed to the splice trays, where selected fibers are fused onto the splitter input pigtail; unused fibers can pass through uncut on an express (mid-span) loop for daisy-chained boxes further along the route. Splitter outputs are presented on the adapter field, so connecting a new subscriber is a plug-in operation - a technician lands the pre-connectorized drop on a free SC/APC port without disturbing live circuits. Bend-radius- controlled routing channels keep every fiber above the 30 mm minimum radius throughout the box.

The box sits between the fiber distribution hub or ODF and the subscriber terminal boxes - typically the last splitting stage of a GPON tree. It mounts on walls at building entries, on poles with stainless banding, or in the risers of multi-dwelling units, and its IP65-class UV-stabilised housing suits both indoor and full outdoor exposure.

Key features

- Sixteen SC/APC drop ports served from an integrated bay for one 1x16 or two 1x8 PLC splitter modules
- IP65-class enclosure in UV-stabilised PC/ABS with a continuous silicone gasket and double-latch door
- Two stackable splice trays with capacity for 24 heat-shrink protected splices
- Uncut mid-span (express) feeder storage for daisy-chained distribution along a route
- Mechanically sealed entries: two feeder glands plus sixteen flat- or round-drop ports
- Bend-radius control of 30 mm minimum on every routing path
- Wall or pole mounting with integral lugs and stainless-banding slots
- Padlock-ready latch for street-level anti-tamper protection

Applications

Building entry aggregation · Curbside distribution · Pole-mounted FTTH drops · MDU risers and corridors · FTTH · GPON

Technical specifications

All values are typical for this product class.

Capacity	
Drop ports	16 x SC/APC adapter positions
Splitter bay	1 x 1:16 or 2 x 1:8 PLC modules
Splice capacity	24 splices on 2 stackable trays
Feeder entries	2 x sealed glands, cable OD 8-16 mm
Drop entries	16 ports, 2 x 5 mm flat or 2-3 mm round
Express (uncut) feeder storage	Yes - 60 cm loop min

Optical performance	
Operating wavelength	1260-1650 nm
Insertion loss (with 1:16 splitter)	13.9 dB max
Return loss (SC/APC path)	50 dB min
Adapter durability	500 mating cycles min
Fiber bend radius maintained	30 mm min

Enclosure	
Material	UV-stabilised PC/ABS blend
Ingress protection	IP65 class
Impact resistance	IK08 class
Door	Hinged, double latch with padlock point
Dimensions (H x W x D)	330 x 215 x 105 mm
Weight (empty)	1.8 kg approx.

Environment & mounting	
Operating temperature	-40 to +65 deg C
Relative humidity	95 % max, non-condensing
Mounting	Wall (4 lugs) or pole banding, pole dia 60-120 mm
Outdoor design life	20-year target

Standards alignment

- Designed to align with IEC 60529 (IP ingress classification)
- Designed to align with IEC 62262 (IK impact classification)
- Designed to align with ITU-T G.657 drop-fiber bend-radius practice
- Designed to align with Telcordia GR-771 closure requirements

Packaging

Typical export packaging: each box individually cartoned with mounting kit and keys; 10 units per double-wall export carton (approx. 685 x 445 x 360 mm, 20 kg gross); cartons palletised and stretch-wrapped for sea or air freight.

Ordering & support: request the certified PROSKY datasheet, project pricing and delivery terms via proskytele.com.