



HARDENED CONCAT

Pre-Term or Spliced Solution



**Image shown of spliced solution*

CONCAT is a modular access-layer closure system designed to simplify and scale FTTx PON distributed split deployments. Built to support both hardened and standard drop connectivity, CONCAT gives network operators the flexibility to deploy in a wide range of outside-plant environments while maintaining reliable subscriber connections.

Its hardened configuration supports fast, sealed drop connectivity for demanding field conditions, while the standard closure option enables organized internal drop management for above-grade installations. With support for both plug-and-play and spliced daisy-chain architectures, CONCAT helps reduce deployment complexity, improve installation efficiency, and expand network reach across multiple closures from a single distribution path.

This makes it a practical solution for operators looking to accelerate FTTH rollouts, optimize access network design, and support future subscriber growth

Splitter Configuration

Parameter	Unit	1x4	1x8
Wavelength Band	nm	1260 - 1650nm	
Insertion Loss (on the entire wavelength band)	dB[max]	7.4	10.5
Loss Uniformity (on the entire wavelength band)	dB[max]	0.7	1.0
PDL - Polarization Dependent Loss @1310 nm,1550 nm and 1625 nm	dB[max]	0.2	0.3

Parameter	Hardened Drop Connectivity	Standard Drop Connectivity
Environmental protection	IP68	IP57 for above-grade installations
Drop / connector interface	Hardened Opto Bolt-compatible connectors	Drop cables connect internally within the closure
Port / drop capacity	2, 4 and 8-port closure options	Up to 8 subscriber drop cables
Deployment	Sealed outside-plant drop connectivity	Strand, pole or pedestal mount
Internal separation	Field swappable lid from 4 or 8 ports.	Dual compartment separates feeder/distribution from drop side

Concat Connectivity

Parameter	Spliceless Plug-and-Play	Spliced
Max closures per distribution leg	Up to 16 closures	Up to 48 closures
Connection components	16-fiber MPO-to-LC internal cassette or 16-fiber MPO-to-LC factory-terminated cable assembly	STL 48F flat IBR cable routed through the closure
Splitter / drop options	1x2, 1x4 or 1x8 Drop Cable Splitters with SC/APC adapters or hardened connectors. Comes with Tap Splitter option	Connector to splitter input; remaining fibers pass through
Subscriber capacity	Supports up to 128 subscribers off a single OLT port, dependent on F1 splitter	Capacity dependent on spliced distribution and splitter design
Deployment model	Factory-terminated, plug-and-play daisy-chain architecture	Fusion-spliced daisy-chain/pass-through architecture

Fire Ratings

UL-94 (This is an outside plant application and is not advised for placement on buildings)

Packaging

(1 unit/box)

Certifications

Tested to IP-68

Dimensions

L x W x H mm (in) 400mm x 183mm x 140mm (15.7" x 7.2" x 5.5")

Feeder/Branch ports:

Left to right Port 1: Feeder, Ports 2 & 3: Branch, Port 4: Distribution