CORNIX

PRODUCT DATASHEET

CNX-DS-F63-003 · REV 1.0 · 06 OCTOBER 2026

PASSIVE OPTICAL COMPONENTS · PLC FIBER SPLITTER

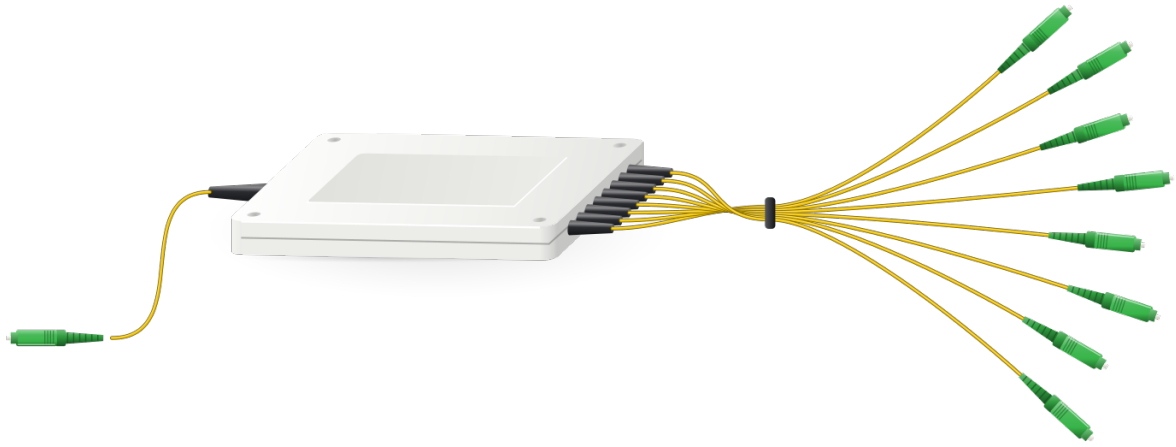
PLC Fiber Splitter, ABS Box, 1×8, SC/APC

PLANAR LIGHTWAVE CIRCUIT · 1×N · SC/APC · G.657.A1

PART NO. **CX-FSP-PLC-1X8-SC-APC-BOX**

Also marked on products / QR labels as: CX-FS-PLC-1X8-SC-APC, CX-FSP-PLC-1X8-SC-APC

PRODUCT ILLUSTRATION



1×8	≤ 10.5 dB	≤ 0.8 dB	1260 – 1650 nm
SPLIT RATIO	INSERTION LOSS	UNIFORMITY	OPERATING WAVELENGTH

OVERVIEW

Planar lightwave circuit (PLC) splitters developed to divide one optical input evenly across multiple outputs in passive optical networks (PON), FTTH distribution points and CATV overlays. Connectorized with SC/APC.

- Planar lightwave circuit technology
- Low insertion loss and excellent uniformity
- 1260–1650 nm operating window
- SC/APC connectorized, ABS box or LGX cassette
- Serial number and test report per unit

APPLICATIONS

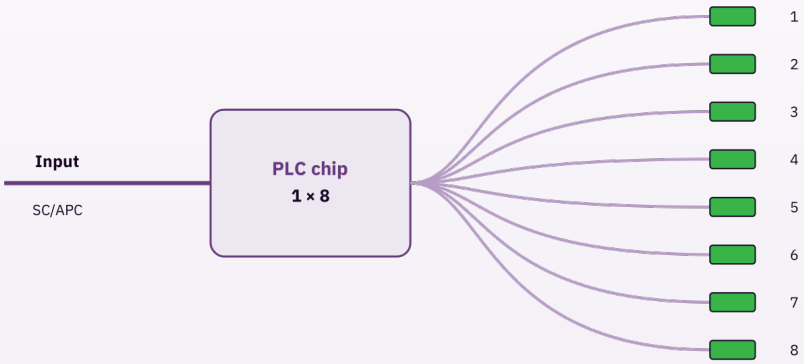
- GPON / XGS-PON distribution
- FTTH splitter points and distribution boxes
- CATV / RF-video overlay

STANDARDS & COMPLIANCE

Telcordia GR-1209 · GR-1221 · RoHS compliant

Technical Specifications

PLC Fiber Splitter, ABS Box, 1×8, SC/APC · CX-FSP-PLC-1X8-SC-APC-BOX



Outputs: 8 × SC/APC — ABS box with 2.0 mm pigtails

OPTICAL SCHEMATIC

GENERAL

Split ratio	**1×8**
Connectors	**SC/APC (input and outputs)**

CONSTRUCTION

Housing	**ABS box module**
Pigtails	**2.0 mm loose tube, G.657.A1**

OPTICAL CHARACTERISTICS

Fiber	**ITU-T G.657.A1**

OPTICAL PERFORMANCE

Operating wavelength	**1260 – 1650 nm**
Return loss	**≥ 50 dB**
Directivity	**≥ 55 dB**
Insertion loss	**≤ 10.5 dB**
Uniformity	**≤ 0.8 dB**
Polarization-dependent loss	**≤ 0.3 dB**

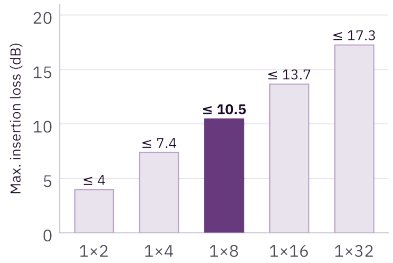
ENVIRONMENTAL

Operating / storage temperature	**-40 °C to +85 °C**

Performance, Quality & Ordering

CX-FSP-PLC-1X8-SC-APC-BOX

INSERTION LOSS BY SPLIT RATIO



Highlighted: this product. Excluding connector loss.

OPERATING WAVELENGTH WINDOW



Covers ITU-T O- to L-bands — GPON, XGS-PON and RF-video overlay.

TEMPERATURE RANGE



INDIVIDUAL TEST REPORT — SERIAL-NUMBERED UNITS

SERIAL & TEST REPORT

Test item	Requirement	Recorded
Insertion loss, every output port	≤ 10.5 dB	Per port
Uniformity	≤ 0.8 dB	Per unit
Polarization-dependent loss	≤ 0.3 dB	Per unit
Return loss / directivity	≥ 50 dB / ≥ 55 dB	Per unit

Each splitter carries a unique serial number and is shipped with its own port-by-port test report.

ORDERING INFORMATION

CX	FSP	PLC	1X8	SC	APC	BOX
CORNIX	Splitter	PLC chip	Split ratio 1×8	SC connector	APC polish	ABS box

Part number	Description
CX-FSP-PLC-1X2-SC-APC-BOX	PLC Fiber Splitter, ABS Box, 1×2, SC/APC
CX-FSP-PLC-1X4-SC-APC-BOX	PLC Fiber Splitter, ABS Box, 1×4, SC/APC
CX-FSP-PLC-1X8-SC-APC-BOX	**PLC Fiber Splitter, ABS Box, 1×8, SC/APC**
CX-FSP-PLC-1X16-SC-APC-BOX	PLC Fiber Splitter, ABS Box, 1×16, SC/APC
CX-FSP-PLC-1X32-SC-APC-BOX	PLC Fiber Splitter, ABS Box, 1×32, SC/APC
CX-FSP-PLC-1X2-SC-APC-LGX	PLC Fiber Splitter, LGX Cassette, 1×2, SC/APC
CX-FSP-PLC-1X4-SC-APC-LGX	PLC Fiber Splitter, LGX Cassette, 1×4, SC/APC

10 part numbers in this family — full list in the family datasheet.

Request a quote or technical support

Datasheets, test reports and samples available on request

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