CORNIX

PRODUCT DATASHEET

CNX-DS-F63-007 · REV 1.0 · 06 OCTOBER 2026

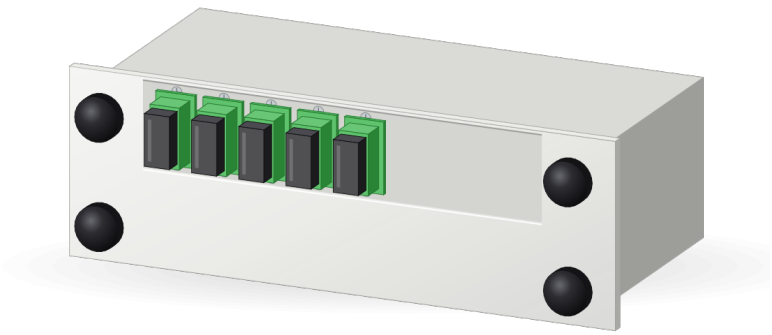
PASSIVE OPTICAL COMPONENTS · PLC FIBER SPLITTER

# PLC Fiber Splitter, LGX Cassette, 1×4, SC/APC

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

PART NO. **CX-FSP-PLC-1X4-SC-APC-LGX**

PRODUCT ILLUSTRATION



| 1×4 | ≤ 7.4 dB | ≤ 0.7 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

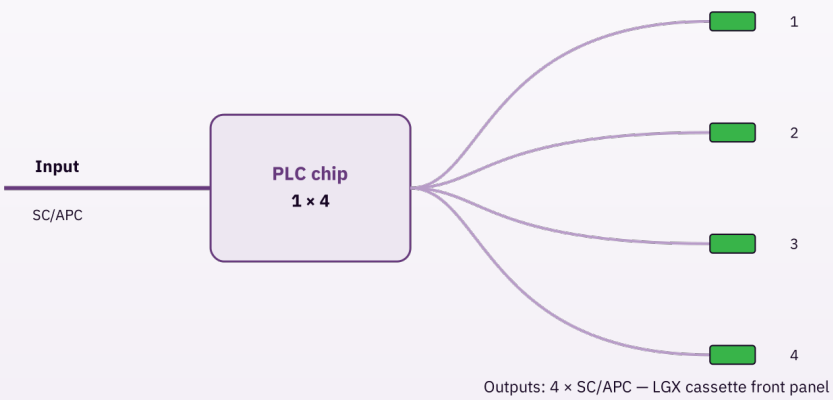
- GPON / XGS-PON distribution
- FTTH splitter points and distribution boxes
- CATV / RF-video overlay

## STANDARDS & COMPLIANCE

Telcordia GR-1209 · GR-1221 · RoHS compliant

# Technical Specifications

PLC Fiber Splitter, LGX Cassette, 1×4, SC/APC · CX-FSP-PLC-1X4-SC-APC-LGX




OPTICAL SCHEMATIC

## GENERAL

| | |
|---|---|
| Split ratio | **1×4** |
| Connectors | **SC/APC (input and outputs)** |
| Installation | **LGX-compatible frames, ODFs and distribution boxes** |

## CONSTRUCTION

| | |
|---|---|
| Housing | **LGX cassette, metal, light grey; front SC/APC adapter panel** |

## OPTICAL CHARACTERISTICS

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

## OPTICAL PERFORMANCE

| | |
|---|---|
| Operating wavelength | **1260 – 1650 nm** |
| Return loss | **≥ 50 dB** |
| Directivity | **≥ 55 dB** |
| Insertion loss | **≤ 7.4 dB** |
| Uniformity | **≤ 0.7 dB** |
| Polarization-dependent loss | **≤ 0.3 dB** |

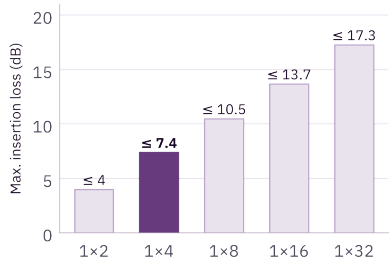
## ENVIRONMENTAL

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

# Performance, Quality & Ordering

CX-FSP-PLC-1X4-SC-APC-LGX

### 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 | ≤ 7.4 dB | Per port |
| Uniformity | ≤ 0.7 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 | 1X4 | SC | APC | LGX |
|---|---|---|---|---|---|---|
| CORNIX | Splitter | PLC chip | Split ratio 1×4 | SC connector | APC polish | LGX cassette |

| Part number | Description |
|---|---|
| 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** |
| CX-FSP-PLC-1X8-SC-APC-LGX | PLC Fiber Splitter, LGX Cassette, 1×8, SC/APC |
| CX-FSP-PLC-1X16-SC-APC-LGX | PLC Fiber Splitter, LGX Cassette, 1×16, SC/APC |
| CX-FSP-PLC-1X32-SC-APC-LGX | PLC Fiber Splitter, LGX Cassette, 1×32, 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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