

# RACK PLC Splitter Box



## Description

The RACK PLC Splitter Box is a rack-mounted fiber optic distribution unit integrating high-performance PLC (Planar Light-wave Circuit) splitters. It is designed to split a single or dual optical input into multiple outputs with uniform signal distribution. Available with SC input and LC output connectors in UPC or APC polish, the splitter box supports 1:2, 1:4, 1:8, 1:16, 1:32 and 2:2, 2:4, 2:8, 2:16, 2:32 configurations.

Housed in a standard 19-inch rack enclosure, it provides reliable fiber management, protection, and easy installation for high-density optical networks.

## Features

- High-quality PLC splitting technology for uniform optical power distribution
- Low insertion loss and excellent channel-to-channel uniformity
- ABS box enclosure provides strong mechanical protection and long service life
- Compact and lightweight design for easy installation
- SC / FC connectors available with UPC or APC polishing
- Wide operating wavelength range (typically 1260-1650 nm)
- High return loss, especially for APC connectors
- Stable performance under temperature and environmental changes
- Factory tested for reliability and optical accuracy
- Suitable for indoor and outdoor fiber distribution systems

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## Applications

- FTTH (Fiber to the Home) networks
- FTTB / FTTC access networks
- PON systems (GPON, EPON, XG-PON, XGS-PON)
- Data centers and telecom central offices
- Optical signal distribution in CATV systems
- Backbone and access layer fiber networks

## Specifications

Characteristics	Conditions
Return Loss Min. ( dB )	55/50
Operating Temperature ( °C )	-40 ~ +85
Directivity Min. ( dB )	≥ 55
Storage Temperature ( °C )	-40 ~ +85
Operating Wavelength ( μm )	1260 ~ 1650
Product Size	485*200*44.5mm 2.3kg

## Ordering information

Product Name	Model Name
RACK PLC Splitter Box SC LC/UPC 1:2 1:4 1:8 1:16 1:32 2:2 2:4 2:8 2:16 2:32	IK-FOP-SC-LC-UPC
RACK PLC Splitter Box SC LC/APC 1:2 1:4 1:8 1:16 1:32 2:2 2:4 2:8 2:16 2:32	IK-FOP-SC-LC-APC

- FOP: Fiber Optic Splitters & Pigtails
- SC - APC/UPC: Connector Type