DME PROLINK Fiber Optic Splitter Panel, 19” Rack Mount, LC/APC, 2:32

Note: Image only for reference. The Splitter Panel actually comes with Front Panel Guide

Description

DME PROLINK’s Splitter panel is a vital component in any GPON/FTTx infrastructure. Designed in conjunction with leading Service Providers This compact, integrated panel offers pre-connectorised presentation of the input and output ports on the front of the panel. Each port is clearly labeled. The splitter consist of waveguides chip, optical fiber array and Pigtails. The Fiber used in *DME PROLINK*’s splitter panel, is made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating.

DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

DME PROLINK Fiber Optic Splitter Panel, 19” Rack Mount, LC/APC, 2:32

Features & Benefits

- Installed in 19” Standard Rack
- Small Size and aesthetic appearance.
- Quick Installation, Reliable Performance and Stable.
- Wide Operating wavelength range
- Good uniformity with respect to PON application
- Cassette Type Splitter - 2:32
- The PLC Splitter comes with pre-connectorised LC/APC connectors. The end faces are still curved but are angled at an industry standard 8°. This maintains a tight connection, and it reduces back reflection to about -70 dB. APC type connector back reflection does not degrade with repeated mating.
- Outer Sheath of Pigtail is PVC
- Fiber Type is G.657A1
- 25 Years System Warranty
- Length of Pigtail is 0.5m
- Diameter for Fiber cable of Pigtail is 2.0mm
- Product Dimension: 430mm (W) x 200mm (D) x 43.5mm (H)

The Fiber Optic Splitter Panel are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber
- YD/T 2000.1-2009: Integrated optical path devices based on planar light wave circuit Part 1: Optical power splitter based on PLC technology
- IEC61300-2-5: Fiber optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-5:Tests–Torsion
- IEC61300-2-17: Fiber optic interconnecting devices and passive components – Basic test and measurement procedures–Part 2-17: Tests –Cold
- IEC61300-2-22: Fiber optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-22: Tests–Change of temperature
- IEC61300-3-1: Fiber optic interconnecting devices and passive components-Basic test and measurement procedures–Visual examination
- IEC61300-3-6: Fiber optic interconnecting devices and passive components –Basic test and measurement procedures-Examinations and measurements -Return loss
- IEC61300-3-34: Fiber optic interconnecting devices and passive components –Basic test and measurement procedures-Examinations and measurements–Attenuation of random mated connectors.

DME PROLINK Fiber Optic Splitter Panel, 19” Rack Mount, LC/APC, 2:32

Optical Characteristics of PLC Splitter

Splitter Type	2x32
Channel wavelength (nm)	1260-1650
Insertion Loss (dB)	≤ 17.9
Loss Uniformity (dB)	≤ 1.5
Return Loss (dB)	≥ 50 (APC)
Polarization Dependent Loss (dB)	≤ 0.3
Directivity (dB)	≥ 55
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +85°C

Note
1:Above insertion loss values are measured at indoor temperature, including the connector loss;
2:Insertion loss of PLC splitter including adapters, should plus 0.2dB base on above insertion loss;
3:Insertion loss of PLC splitter without connectors, should minus 0.2dB base on above insertion loss.

Technical Characteristics of LC Connector

Fiber Type	Single mode OS2
Connector Type	LC
Connector Surface	APC (Angled Physical Contact)
Insertion Loss (dB)	≤ 0.3
Return Loss (dB)	≥ 60
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

DME PROLINK Fiber Optic Splitter Panel, 19” Rack Mount, LC/APC, 2:32

Technical Characteristics of LC Adapter

Fiber Type	Single mode
Adapter Type	LC
Insertion Loss (dB)	≤ 0.20
Repeatability (dB)	≤ 0.20
Interchangeability (dB)	≤ 0.20
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

Factory Tests

Tests	Test Content and Criteria Data
Visual Examination	Be smooth, clean, without oily be soiled, no scar and crack. The whole device is firm, the tail fiber without loosening or with the connector plug is smooth.
Insertion Loss	≤ 0.3dB (Connector)
Return Loss	≥ 60dB (Connector)
Mechanical Durability	Plug and pull out for 500 times, No scratch and meet optical performance
Cold	Temperature：-40℃,-20℃, -10℃.(Choose one according to requirements). Time: 96h. The rate of change of temperature shall not exceed 1 °C/min, averaged over a maximum period of 5 min. Result: no scar and crack.
Torsion	Load: 2N. Twist angle: 180°. Number of cycles: 25
Temperature Cycling	Range:-10℃~+60℃, 5 cycle. Change speed:（1±0.2）℃/min; Result: ΔIL ≤ 0.2dB, ΔRL＜5dB

DME PROLINK Fiber Optic Splitter Panel, 19” Rack Mount, LC/APC, 2:32

Tests done with reference to below standards

- IEC 61754-20: Fiber Optic interconnecting devices and passive components – Fiber Optic Connector Interfaces – Part 20: Type LC connector family
- IEC 61300-3-1: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Visual Examination
- IEC 61300-2-5: Fiber optic interconnecting devices and passive components – Basic test and measurement procedures- Tests –Torsion
- IEC 61300-2-17: Fiber optic interconnecting devices and passive components – Basic test and measurement procedures –Tests –Cold
- IEC 61300-2-22: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Examinations and Measurements – Change of Temperature.
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors
- YDT 2000.1-2009 Integrated optical path devices based on planar lightwave circuit Part 1: Optical power splitter based on PLC technology

Part Number

D1249-LCA232X1	Fiber Optic Splitter Panel, 19" Rack-mount, LC/APC, 2:32 Splitter, 1 Instance