D-CONNECT
DATA CONNECT

TNS TECHNOLOGIES
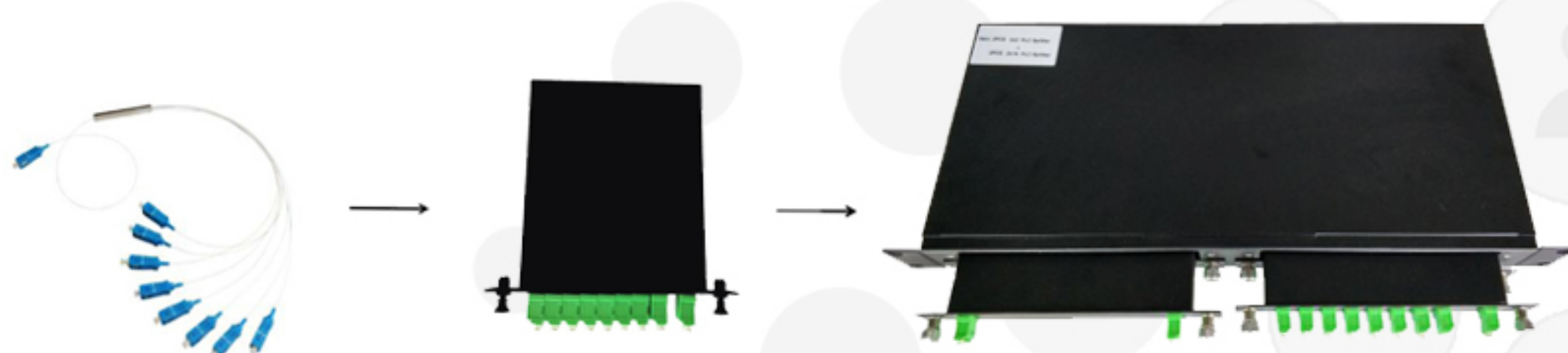### TELECOM • NETWORKING • STRUCTURED CABLING

FIBER OPTIC SPLITTER PANEL
– 19" RACK MOUNT, WITH 2 X 2:2 AND 2 X 2:16 LC/APC SPLITTERS
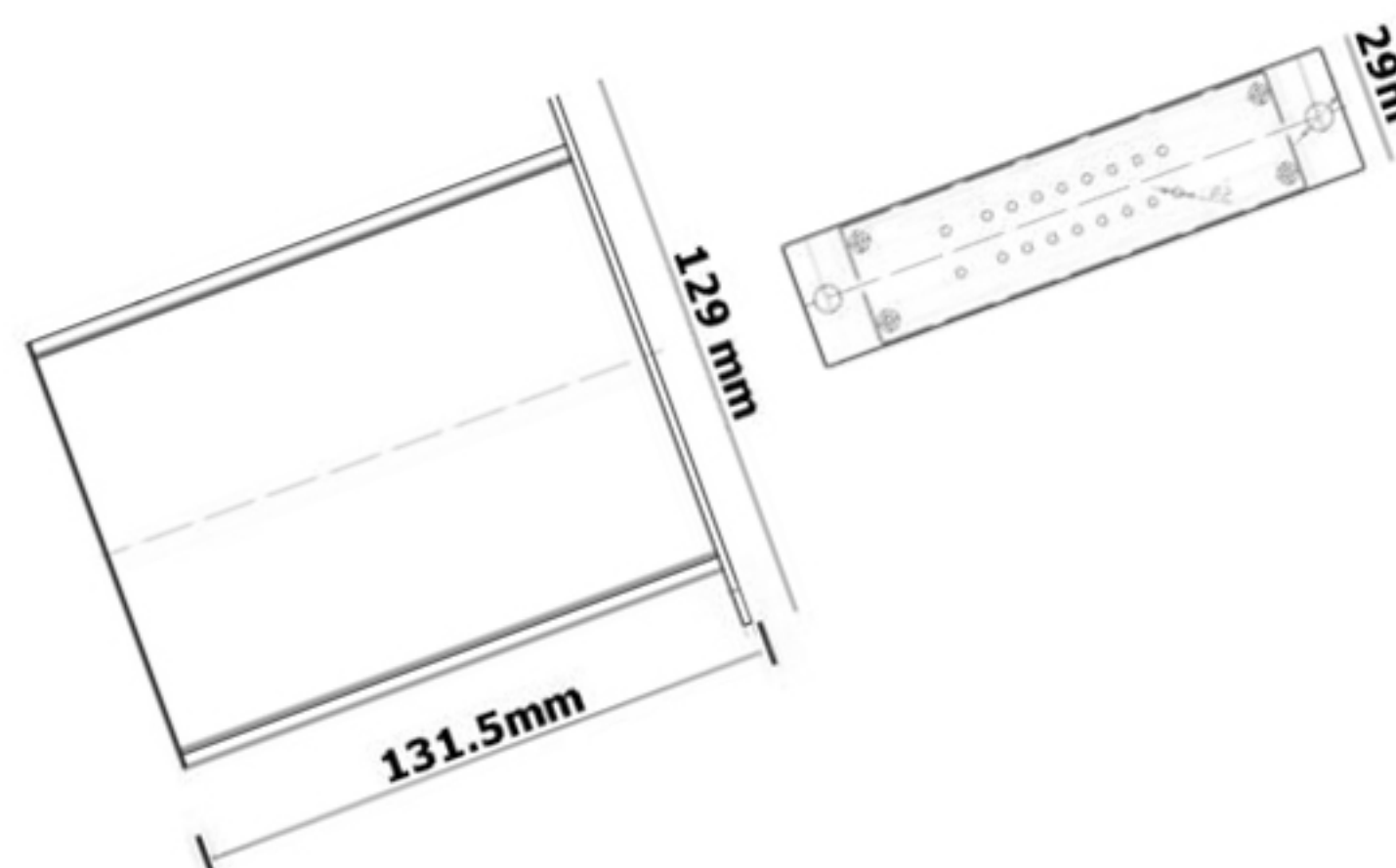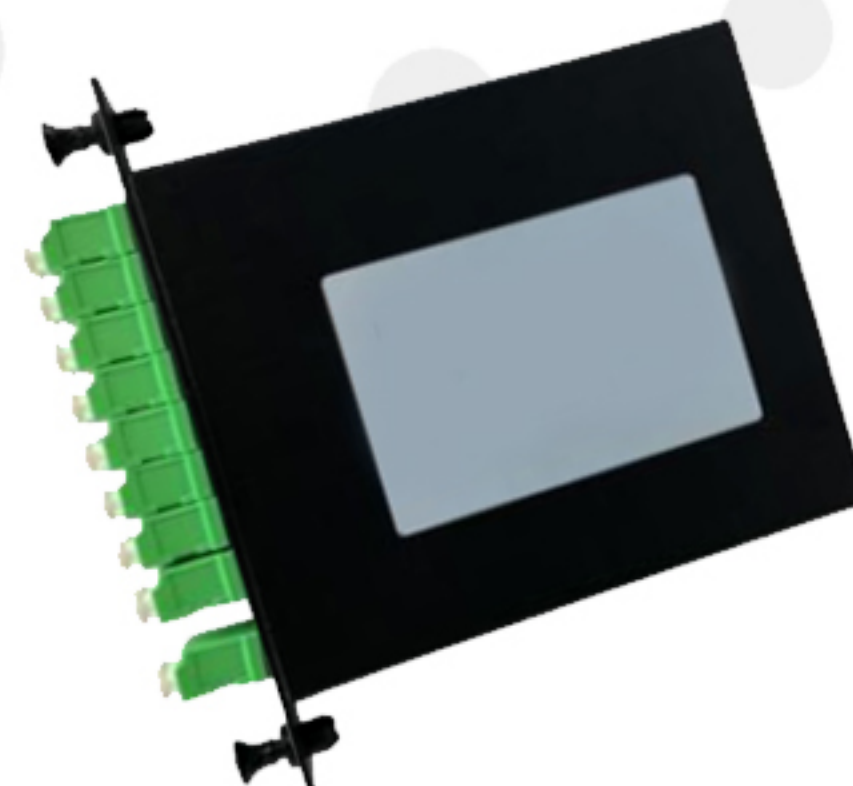
Structure Diagram & Description

D-Connect 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 D-Connect 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.

Features:

- 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 Nos. of 2:2 and 2 Nos. of 2:16
- 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-70dB. APC type connector back reflection does not degrade with repeated mating.
- Outer Sheath of Pigtailis PVC
- Fiber Type is G.657A1
- Length of Pigtailis 0.5m
- Diameter for Fiber cable of Pigtailis 2.0mm
- Product Dimension: 430mm(W) x 200mm(D) x 43.5mm(H)
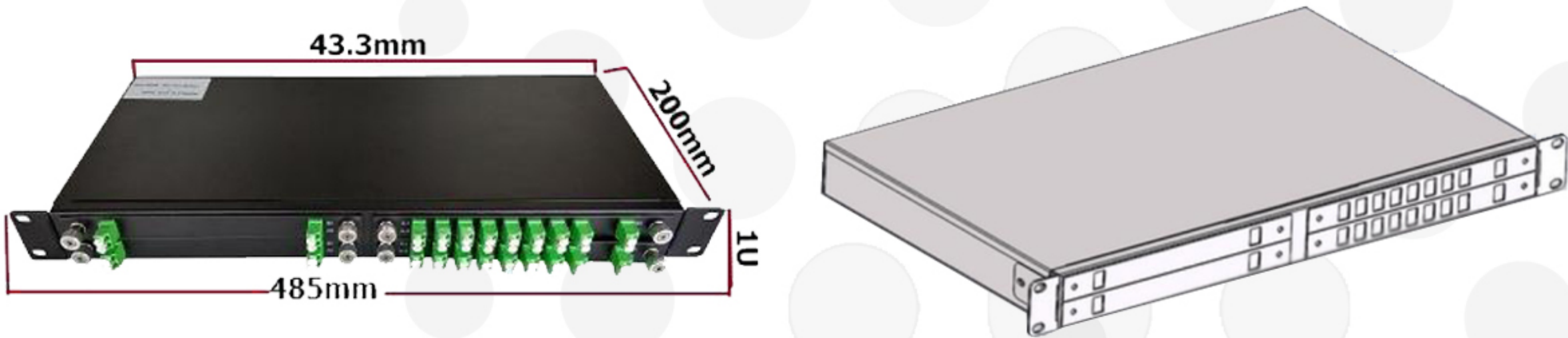
Cassettes size:

- 129mm*131.5mm*29 mm

Panel size:

- 485mm*200mm*1U with 4 PLC splitter C assettes
- 485mm*200mm*2U with 8 PLC splitter Cassettes
- 485mm*200mm*3U with 12 PLC splitter Cassettes
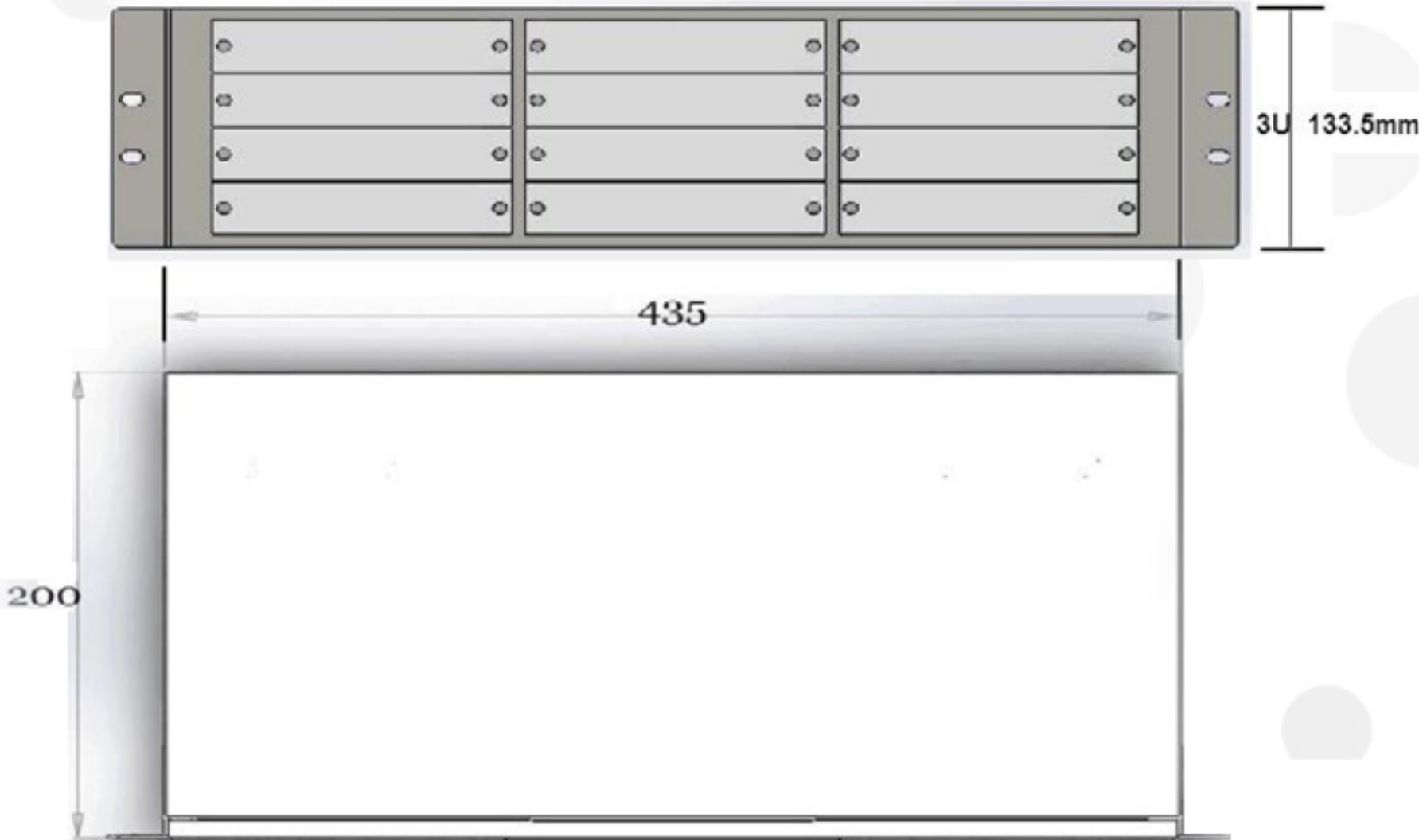- 485mm*200mm*4U with 16 PLC splitter Cassettes (The depth can be customized)

(1) 1U Panel with 4 PLC splitter Cassette:

- 2 units PLC 2*2 cassettes full loaded LC/APC and 2 units PLC 2*16 cassettes full loaded LC/APC

(2) 485mm*200mm*2U with 8 PLC splitter Cassettes

(3) 485mm*200mm*3U with 12 PLC splitter Cassettes

OPTICAL CHARACTERISTICS

Splitter Type	PLC SPLITTER 2x2	2x16
Channel wavelength (nm)	1260- 1650	
Insertion Loss (dB)	≤ 4.5	≤ 14.8
Loss Uniformity (dB)	≤ 0.8	≤ 1.5
Return Loss (dB)	≥ 55 (APC)	
Polarization Dependent Loss (dB)	≤ 0.2	≤ 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

PLC SPLITTER	
Connector Type	**LC/APC**
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
Directivity (dB)	> 500 times
Standard	IEC 601754-20