ZUOYEAL

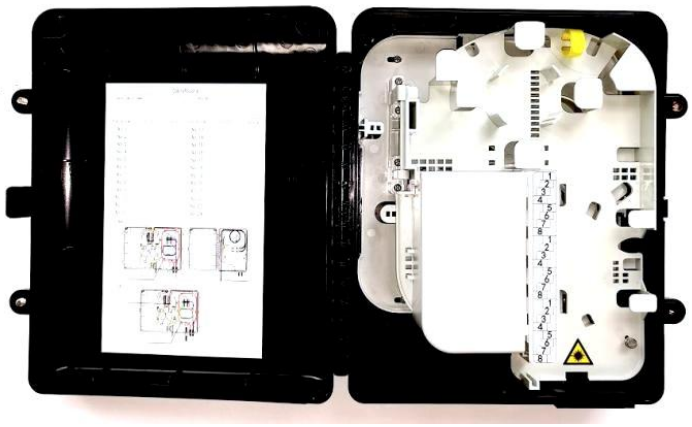
NAP BOX · 16 PORTS · SPLICING / SPLITTING / DISTRIBUTION

16 PORTS
NAP BOX

MODEL **ZY-NAP16P-GL**

NAP box for FTTH distribution: 16 drop-cable ports, three FOC ports and up to 1:16 PLC splitting, for manhole, wall or pole installation.

PORTS	SIZE
16 drop + 3 FOC	**310 × 250 mm**
PROTECTION	SPLITTER
IP65	**1:16 × 1**



01 OVERVIEW

Description & features

The NAP box is designed for the construction of the distribution network. It can be installed inside a manhole with a high protection level, or wall / pole mounted. It integrates the functions of splicing, splitting, bypass and distribution.

FEATURES

- UV protection PC/ABS alloy.
- Protection level IP65.
- Supports mid-span and branching functions.
- 16 outputs for drop cable.
- Supports 1:8 splitter × 3; the splitter can be cassette or mini type.
- Box colour: black or grey.
- Suitable for outdoor use, wall mount or pole mount.

AT A GLANCE

ITEM	VALUE	ITEM	VALUE
Model	ZY-NAP16P-GL	Material	PC + ABS, anti UV
Size	310 × 250 × 99 mm	Protection	IP65
Drop ports	16	FOC ports	3
Splitter	1:16 × 1 / 1:8 × 2	Weight	2 kg

APPLICATIONS

- FTTH distribution network and access-layer branching.
- Manhole installation, where the high protection level is required.
- Pole-mounted aerial deployment along the distribution route.
- Wall-mounted installation indoors or on building facades.

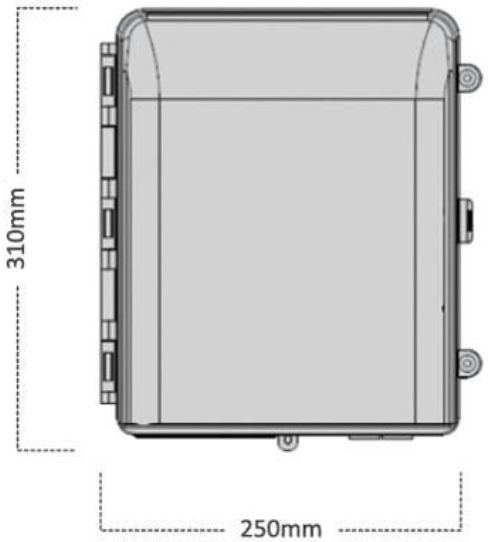
02 PERFORMANCE

Performance index

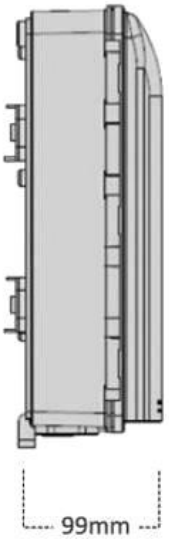
ITEM	PARAMETERS
Model	ZY-NAP16P-GL
Size	310 × 250 × 99 mm
Material	PC + ABS, anti UV
Drop cable ports	16 ports
FOC ports	3 ports
PLC splitter	1:8 PLC × 2 or 1:16 PLC × 1
Couplers	SC/APC × 16 pcs
Colour	Black
Protection level	IP65
Ultraviolet ray	Anti UV
Weight	2 kg
Application	Indoor / outdoor

03 STRUCTURE

Structure drawing & port layout



Overall dimensions 310 × 250 mm



Depth 99 mm

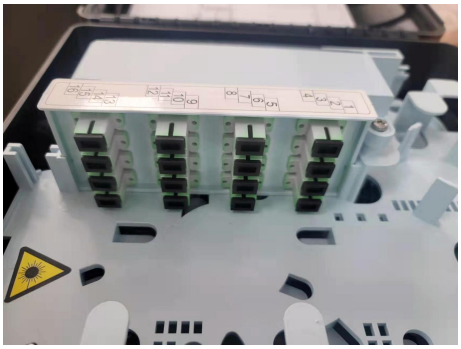


Closed NAP box — 310 × 250 × 99 mm

- 16 drop-cable ports for 2 × 3 mm drop cable.
- 1 distribution cable port, FOC 7 - 14 mm.
- 2 distribution cable ports for pass-through use, 18 mm FOC available.
- Integrated splice tray, PLC platform and SC/APC coupler plate.

04 INTERNAL LAYOUT

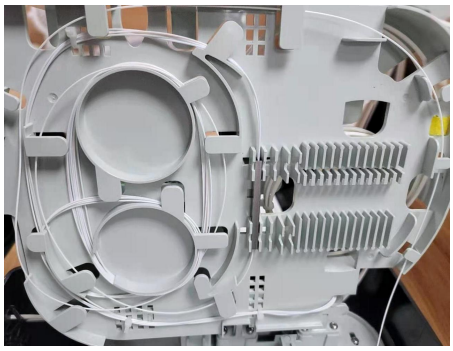
Splice area, PLC platform & coupler plate



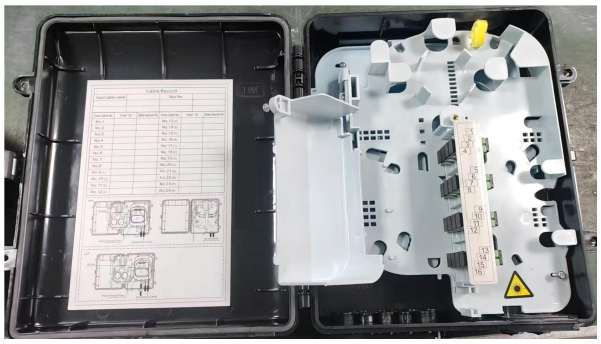
16 SC/APC adapters in four blocks



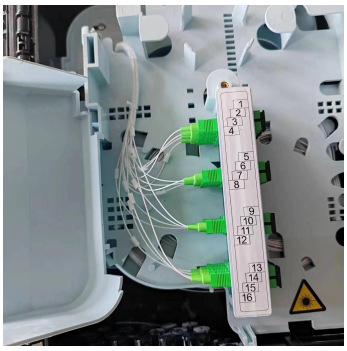
Splice tray and numbered coupler plate inside the box



PLC Splitter install platform



Cable record label and adapter positions inside the box



Splitter pigtails landed on adapters 1 - 16



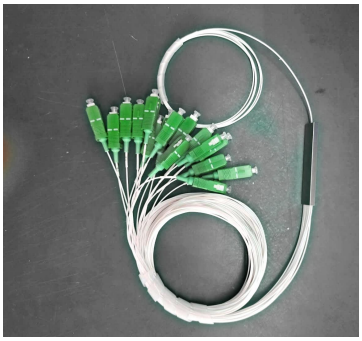
Box cover with customize logo

FUNCTION AREAS

- Fix captive screw and coupler plate with cover.
- PLC platform for cassette or mini type splitter.
- FOC splicing area with splice-protector rack.
- FOC fixture and PLC connector side, all accessible from the front.
- Adapters numbered 1 - 16, marked on the coupler plate.

05 COMPONENTS

PLC splitter & couplers



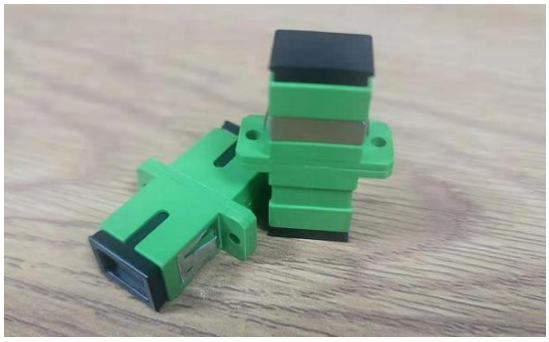
1:16 PLC splitter with SC/APC pigtails



1:16 PLC splitter module



1:8 PLC splitter module



SC/APC coupler

PLC SPLITTER PARAMETERS

ITEM	UNIT	1:8 PLC	1:16 PLC
Bandwidth	nm	1260 - 1650	1260 - 1650
Insertion loss	dB	≤ 10.3	≤ 13.5
Insertion loss with connector	dB	≤ 10.5	≤ 13.8
PDL	dB	≤ 0.3	≤ 0.3
Loss uniformity	dB	≤ 0.8	≤ 1.2
Return loss	dB	≥ 55	≥ 55
Operating temperature	°C	−40 to +85	−40 to +85
Directivity	dB	≥ 55	≥ 55

COUPLER PARAMETERS

PARAMETER	SPECIFICATION
Insertion loss (1310 & 1550 nm)	≤ 0.2 dB
Mechanical durability	≥ 1,000 times
Temperature range	−40 to +80 °C

06 WIRING

Wiring diagram & typical configuration

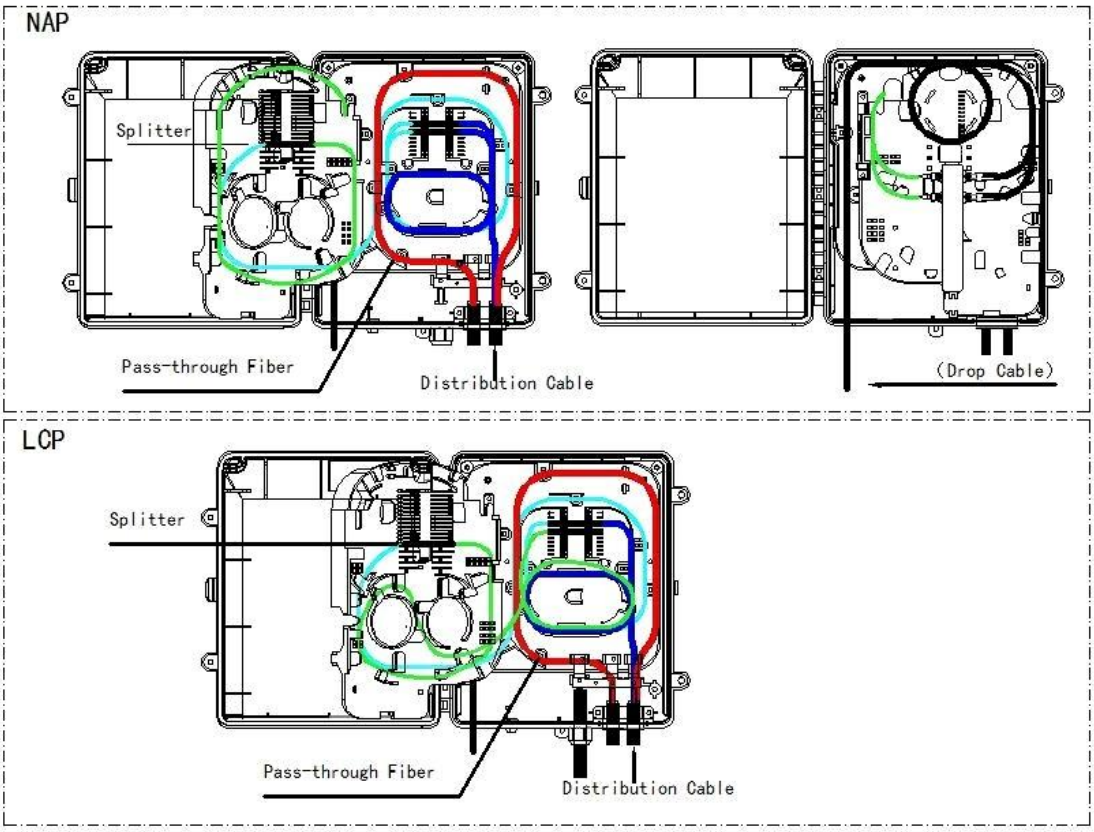


FIG. 4 Wiring schematic — splitter, pass-through fibre and distribution cable



16 drop-cable ports and distribution ports from the side

07 INSTALLATION

Pole mounting & wall mounting

MOUNTING HARDWARE



Stainless steel hoops fitted on the back bracket



Back panel with the stainless steel bracket

POLE-MOUNTED

- Release the hoop and cross the steel plate.
- Place the hoop around the pole and over the box brackets.
- Tighten the screws firmly so the box cannot rotate on the pole.

WALL-MOUNTED

- Drill 3 holes in the wall according to the dimension drawing.
- Insert the expansion bolts into the wall.
- Place the box over the holes and fasten with the bolts.

ZUOYEAL

ZUOYEAL TECHNOLOGY

Connecting More, With Fiber

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This datasheet describes the ZY-NAP16P-GL NAP box at the time of publication. Dimensions and configurations may change without notice; confirm current values with ZUOYEAL before ordering.

16 PORTS · IP65 · PC+ABS

Connecting More, With Fiber