

FEATURED PLATFORM / FSP-16X-A

ODN Preconnectorized Distribution Box

FSP-16X-A: a 16-port enclosure for splicing, optical distribution and protected subscriber connections.



Parameter	Published platform specification
Adapter ports / cable entries	16 preconnectorized adapters / 8 cable entries
Cable diameter at entries	Ø5–16 mm; customization available
Splice capacity	144 fusion splices; 6 trays × 24 splices
Housing / internal components	Black polypropylene (PP) / PC+ABS or ABS
Dimensions / mounting hole spacing	430 × 196 × 139 mm / 154 × 414 mm
Protection / flammability	IP68 manufacturer rating / UL-94HB standard
Operating / installation temperature	-40 to +65 °C / -15 to +40 °C
Storage temperature	-45 to +75 °C
Relative humidity / atmospheric pressure	≤85% at +30 °C / 70–106 kPa
Mounting	Wall, pole or aerial; select the mounting kit
Neutral salt spray	48 hours; customization available

The platform specifications above describe the 16-port enclosure. Define the 8-port version separately. Select the exact hardened adapter and matching connector with the project drawing.

FSP-16X-A / OPTICAL SELECTION

ODN Optical and Port Configurations

Choose the optical function independently of the enclosure port count.

Optical assembly	Component IL	Return loss	Box IL
SC/APC pigtail	≤ 0.3 dB	≥ 55 dB	≤ 0.5 dB
1x2 PLC	≤ 4.0 dB	≥ 55 dB	≤ 4.2 dB
1x4 PLC	≤ 7.4 dB	≥ 55 dB	≤ 7.6 dB
1x8 PLC	≤ 10.5 dB	≥ 55 dB	≤ 10.7 dB
1x16 PLC	≤ 13.5 dB	≥ 55 dB	≤ 13.7 dB

Box IL is the manufacturer's insertion-loss specification for the assembled box with the indicated optical path. These are platform defaults, separate from customer qualification limits.

Standard pigtail

Parameter	Specification
Interface / fiber	SC/APC; single-mode simplex; 1 fiber; G.657.A2
Diameter / jacket / standard length	0.9 mm / PVC / 1.5 m
Optical test methods	IL: IEC 61300-3-4, Method B; RL: IEC 61300-3-6, Method 1

Project configuration options

Version	Proposed assembly
8 ports	8 SC/APC pigtails
16 ports	4 PLC splitters of 1x4; 16 SC/APC outputs and 4 input pigtails

Confirm the project port map, selected hardened adapter, pigtail length and mounting before sample preparation. The proposed 1 m pigtails are separate from the 1.5 m platform default.