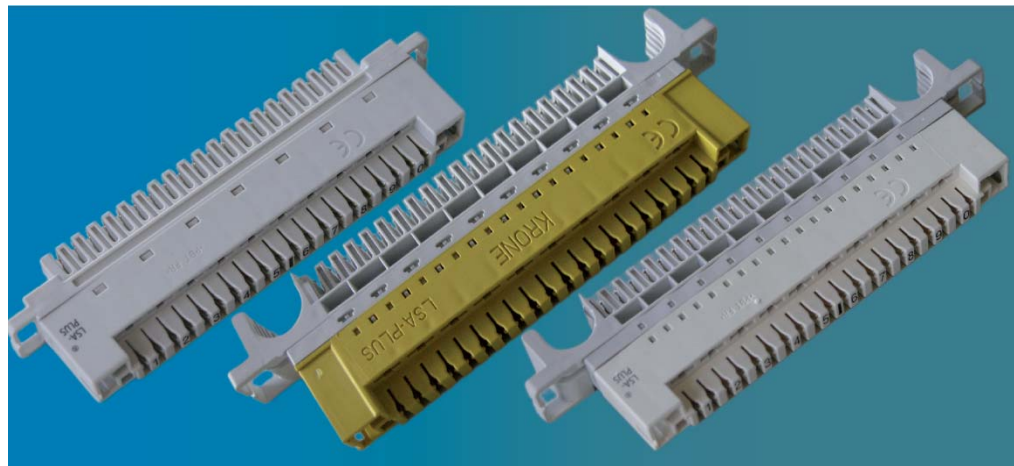


LSA-PLUS® HD180 – Copper connectivity modules

Switching equipment and distribution systems are being increasingly moved out of central exchanges and re-located closer to customers. The ongoing development of existing networks, expanded portfolios of network suppliers and the implementation of IP services require additional space in the network structures in the “last mile” to customers. Several suppliers need to accommodate their equipment and the associated cabling in a limited space. Here, the topmost priority is to achieve the highest degree of reliability with simultaneous circuit density.

The LSA-PLUS HD180 connection, disconnection and switching PROFIL modules meet the demand for high-density while delivering high-quality connectivity through LSA-PLUS connection technology. The available space is increased by up to 100% over conventional connection systems when using LSA-PLUS HD180 modules.

The LSA-PLUS HD180 is suitable for use in all communication networks (POTS, DSL and IP networks), it's VDSL2-capable and it's used in outdoor enclosures with restricted space for cable termination.



Features and benefits

- Insulation displacement contacts on front and rear
- Test tap for permanent connection between incoming and outgoing copper cables
- Surge voltage protection available. The active equipment is protected against voltage surges by surge voltage protection magazines. This results in significant cost savings and high service availability
- Highest contact reliability using silver-plated IDC contacts
- Optimum circuit density with 13.5 mm mounting grid dimension increases the available space by up to 100%
- Optional wire routing elements allow wires to be uniquely assigned, thereby preventing incorrect circuit connections
- Uses standard LSA-PLUS insertion tool
- Application for PROFIL rods with $\varnothing 12$ mm and 95 mm distance

Specifications

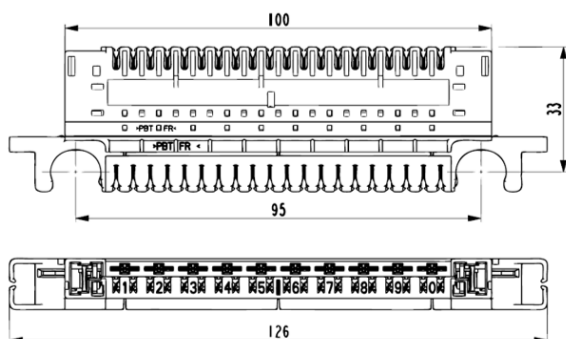
Design and configurations

Disconnection modules	Connection modules	Switching modules
10-pair modules with disconnection contacts for opening of isolating the line (normally closed contact)	10-pair modules with connection contacts (only parallel rapping possible) for clicking into mounting brackets with predefined positioning to achieve maximum circuit density	10-pair modules with switching contacts (normally open contacts) to be used in conjunction with overvoltage magazines
Housing color: cream white	Housing color: grey	Housing color: yellow
For click-fixing to profile rod system with 12 mm diameter and 95 mm rod spacing		For click-fixing to profile rod system with 12 mm diameter and 95 mm rod spacing

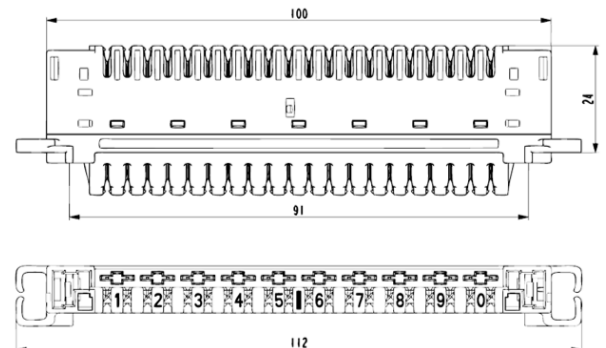


General attributes & mechanical characteristics

Modules for profile rod installation



Modules for back mount frame installation



Product specifications:

Electrical properties

Insulation resistance:	≥ 5 x 10 ⁴ MΩ at 500 V
Alternating voltage strength:	2 kV _{rms}
Impulse resistance voltage (1.2/50 μs):	3.6 kV
Contact resistance:	Insulation displacement contact: <2.5 mΩ
Conductor diameter, equipment wire:	0.35 mm to 0.63 mm
Surge voltage protection:	Can be inserted from the front
Flammability (module) acc. to UL94:	V0

Mechanical properties

Total module height:	33 mm
Vertical grid dimension:	13.5 mm
Material:	PBT
Contact surface:	Silver-plated
Standards:	ETS 300 019-1-1 Class 1.1 (weather-protected, partially temperature-controlled storage) IEC 60721 Part 3-3 usage (weather-protected, stationary) IEC 60352-4, solderless non-accessible insulation displacement connections

LSA – PLUS HD180 modules

Catalogue Number	Product description
LSA-70142210-00	10-pair connection module, for mounting brackets
LSA-70142265-00	10-pair disconnection module, for mounting brackets
LSA-70142250-00	10-pair disconnection module, for PROFIL mounting *
LSA-70142280-00	10-pair switching module, for PROFIL mounting *

* Mounting aid adapter needed for profile rod modules installation - LSA-70143252-00

LSA – PLUS HD180 - Accessories

Catalogue Number	Product description
LSA-70142058-00	Hinged label frame with labeling plate
LSA-70143325-10	Mounting bracket for 100 pairs
LSA-70143340-20	Mounting bracket for 200 pairs
65772812-0x	PROFIL rod for PROFIL mounting, for disconnection modules only
LSA-70141206-10	Cable head 100 pairs with (10) 10-pair connection modules (kit)
LSA-70141200-11	Cable head 200 pairs with (20) 10-pair connection modules (kit)
PRO-70192220-00	Surge voltage protection magazine, 180 v, 10 pairs with 3-pole arresters and fail-safe
PRO-70192220-20	Surge voltage protection magazine, 330 v, 10 pairs with 3-pole arresters w/o fail-safe
LSA-70143252-00	Mounting aid, for PROFIL modules only
60892141-00	Adapter cable 7052, 2-pole, 0.13 m
70142003-00	Test cord 2-pole, 0.2 m
70142004-00	Test cord 4-pole, 0.2 m, for disconnection modules only
LSA-70143221-00	Disconnection plug 1 pair, red, for disconnection modules only
LSA-70143249-00	Dummy plug, black
61963042-00	Marking cap, red
64172055-01	LSA-PLUS insertion tool

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