





LSA-PLUS® Function

General Information

KRONE LSA-PLUS® stands for a technically and economically superior quick connection system for all modern communication networks.

- L** (no solder)
- S** (no use of screw)
- A** (no wire stripping)
-
- P** (cost-effective)
- L** (easy to use)
- U** (universal application)
- S** (secure and fast connection system)

The LSA-PLUS® System, with the LSA-PLUS® contact as its smallest functional element, is used for connecting, disconnecting, switching and earthing connections in telecommunications and data applications.

The patented LSA PLUS® contact as a special feature of the system ensures the highest degree of contact safety under the most severe conditions even after years of use. A durable, gas tight connection is formed between contact and wire - resistant to corrosion and mechanical stress.

These connections are made with a single action, with an audible indication, using the LSA-PLUS® insertion tool.

The KRONE LSA-PLUS® contacts always function according to the same basic principle irrespective of the type of module used.

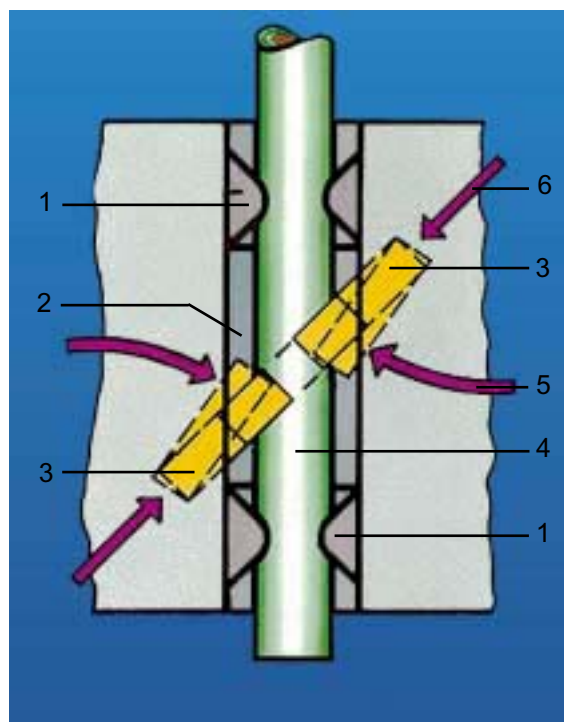
Using the LSA-PLUS® insertion tool S, the plastic insulated copper or jumper wires (4) are pressed into the contact slot (2) between the contact jaws (3), these being arranged at a 45° angle to the axis of the wire. The contact jaws open in axial direction while at the same time twisting, cutting through the insulation of the wires and notching the conductor at obliquely opposite points.

The twisting of the contacts together with constant torsion and return force pressures (5, 6) of the contact jaws create two gas tight contact surfaces.

The plastic clamping ribs (1) which are moulded into the guide slot of the modules provide additional protection of the contact points against shock and tensile forces. The insulation and conductor are firmly gripped by these plastic clamping ribs preventing any movement of the connection in the contact area.

A correct connection is signalled by an audible "click" of the LSA-PLUS® insertion tool.

In the course of the same action, the LSA-PLUS insertion tool trims the wire to the correct length after connection.



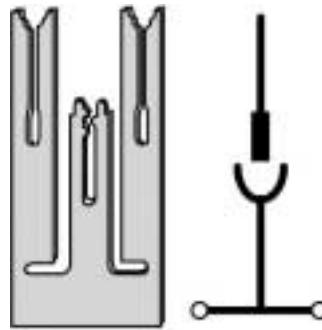
- Key to the diagram:
- 1 Plastic clamping ribs
 - 2 Contact slot
 - 3 Contact jaws
 - 4 Wire
 - 5 Torsion forces on the contact
 - 6 Return forces on the contact



System Survey

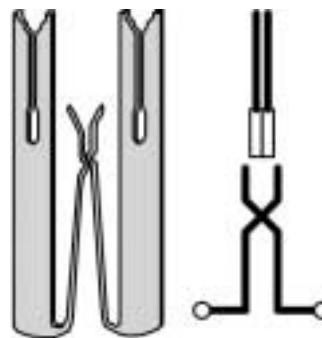
The connection module function (system colour: grey)

The wires are connected to the opposite contacts at the system/cable and at the jumper sides. Separate access contacts are located at the centre of each pair; e.g. for monitoring, measuring and testing work, for switching using switching adapters or for connecting overvoltage protection magazines (3-point protection with overvoltage arresters or semiconductor components).



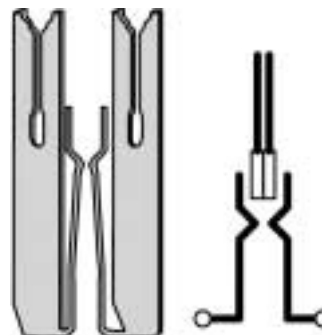
The disconnection module function (system colour: white)

Compared to the connection modules, the LSA-PLUS disconnection modules feature additional functions, because the circuit can be disconnected using plugs or cords when required. This feature provides a wide range of possibilities, for example the implementation of an "intelligent" protection systems, measuring and testing in two directions, connecting via cords or "looping in" of functional elements (e.g. attenuation plugs).



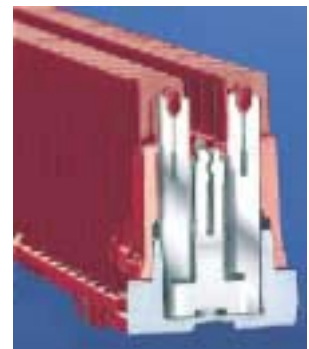
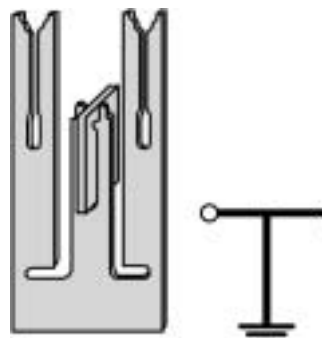
The switching module function (system colour: brown)

The individual contacts and hence the circuits of the LSA-PLUS switching module are disconnected when idle. By inserting plugs or cords, the circuits can be connected when necessary. It is also possible to install 5-point or graded protection.



The earth module function (system colour: red)

Depending on the version, the LSA-PLUS earth modules (connection contacts) permit the routing of up to 36 cable wires to one common electrical potential. Via a permanently connected, flexible earth line, the backmount frame or an earth terminal is connected to earth potential.





LSA-PLUS® Insertion Tool S

LSA-PLUS-Insertion Tool S

Your key to unparalleled contact security: The LSA-PLUS Insertion Tool with Sensor

The LSA-PLUS Insertion Tool with Sensor is seen by experts to be the key to

- unparalleled contact security, and
- fast and clean work.

Where can you use the LSA-PLUS Insertion Tool with Sensor?

Wherever you use components from one of the many LSA-PLUS series.

- All types of telecommunications equipment
- Data cabling systems in buildings
- Patch panels
- Connection sockets
- Floor distributors
- Main distributors
- Cross connection cabinets
- Terminating distributors
- Alarm and fire alarm systems
- Machine control systems.

A suitable LSA-PLUS series is available for all applications where a large number of single wires must be distributed or connected.

Your advantage: No insulation removal, no use of screws, no soldering - extremely fast working onsite with integrated contact safety.

LSA: No soldering, no use of screws, no insulation removal!

All LSA-PLUS series can be wired using the same tool:

The KRONE LSA-PLUS Insertion Tool S.

How does the LSA-PLUS Insertion Tool with Sensor work?

The LSA-PLUS Insertion Tool S permits the gas tight connection and trimming of the wire in just one single action. No stripping of wires or use of screws is required - a simple action of the tool is sufficient. A correctly terminated contact is indicated by an audible click.

What is the sensor used for?

The sensor detects whether the wire has been pressed far enough into the contact. The cutting mechanism which trims the excess wire ends is not activated until the sensor detects that the contact is correct.





LSA-PLUS Insertion Tool S

What is the scissors inhibitor used for?

In case the trimming of the residual wire end is not desired, because the neighbouring contact is for example to be bridged, the inhibitor clip is turned to a horizontal position. Now, the wire can be fed into the corresponding contact row and then connected using the LSA-PLUS Insertion Tool S, without trimming the excess length. This little trick means that you can create circuits as desired at all times without having to search for a long time for a suitable bridge.

What is the hook used for?

The hook can be used to remove connected wires from the contact or 1-pair ComProtect plugs from the module. The hook is also designed for removing arresters from the overvoltage protection magazine.

What is the blade used for?

In Series 2, this blade is used to release modules from the backmount frame; in Series 7, the hook is used to disconnect the jumper element from the cable connection element.

... and the cams at the end?

The cams at the end of the tool are used to remove overvoltage protection magazines from the KRONNECTION Box A2, A6 and A10 as well as from the LSA-PLUS connection module 8/10..

... and the hole?

This is where the tool can be attached to the mounting aid. A handy hook for hanging up the tool when it is not immediately being used.

Can the scissors be replaced?

No! The hardened, nickel-plated scissors have such a long service life (refer to technical specifications) that it is not necessary to replace them. A used tool cannot be made "as new" simply by replacing the scissors.

Can one connect 0.9 mm conductor diameters or stranded wires?

Depending on the LSA-PLUS series, the tool can be used to connect all conductors with a nominal diameter of 0.35mm to 0.9mm; the latter being common in the field of signalling systems; stranded wire cables used in recording studios as well as solid conductors; thin telecommunication wires as well as thick, insulated Type 1 data cables.

Two wires in one contact (double connection)?

Most LSA-PLUS series can be connected with 2 wires (same type, same diameter) for each contact slot. If you wish to connect a second wire, the sensor must be deactivated by moving the clip to the OFF position.





Series Overview

LSA-PLUS® Series 1

Connection modules for 10 or 20 pairs, fixed with screws onto mounting plates. Fixing dimensions according to DIN 47 614.



LSA-PLUS® Series 7

Modular System for the future.
For voice and data communication designed for the high efforts of
* connecting paper insulated cables used in cross connections and distribution networks,
* jumpering, measuring and testing with connected overvoltage protection



LSA-PLUS® Series 2

Connection, disconnection, switching modules for 8 or 10 pairs and earth modules for clicking onto backmount frames (standard program). Version with connection pins on the backside for mounting onto PCBs. LSA PROFIL® for clicking onto profile rod systems.



LSA-PLUS® Series 8

Connection module for 10 pairs with overvoltage protection and fixing dimensions according to DIN 47 614.



LSA-PROFIL® Series 2/8abs

Disconnection module for 8 shielded pairs. Shield tracers contacted to s-contacts are automatically connected with the earth.
For clicking onto profile rod systems.



LSA-PLUS®-NT

Connection, disconnection modules for 8 or 10 pairs. For clicking on to back mount frames or as LSA-PROFIL® modules for clicking onto profile rod systems.



LSA-PLUS® Series 4

Connection modules for PCBs.



TERMINATOR®

Connection or disconnection modules for 3 or 10 wires for clicking onto mounting rails according to DIN 50022, DIN 50035 and DIN 50045.





Technical Data

Contact versions:

Depending on the applications, different kinds of KRONE LSA PLUS contacts® are available.

Series 1, 2, 2/8abs and 8 Mini Box 8/2 and 8/10

KRONE LSA-PLUS contacts® for plastic insulated copper conductors with solid or stranded wires.

a) solid wires

| | |
|------------------|---------------------------------|
| wire diameter | 0.40...0.80 mm ^{a, b)} |
| overall diameter | 0.70...1.60 mm |
| AWG 26...20 | |

b) stranded wires

| | |
|------------------|--------------------|
| wire diameter | 7 x 0.12...0.32 mm |
| overall diameter | 0.70...1.60 mm |
| AWG 28...20 | |

Series 7

| | |
|---|------------------------------|
| KRONE LSA-PLUS contacts® | |
| for plastic insulated or paper insulated copper wires | |
| wire diameter | 0.40...0.80 mm ^{a)} |
| overall diameter | 0.70...1.80 mm |
| AWG 26...20 | |

Series NT

| | |
|------------------------------------|------------------------------|
| KRONE LSA-PLUS contacts® | |
| for plastic insulated copper wires | |
| wire diameter | 0.40...0.80 mm ^{a)} |
| overall diameter | 0.70...1.80 mm |
| AWG 26...20 | |

Series 4

| | |
|------------------------------------|----------------|
| KRONE LSA-PLUS contacts® | |
| for plastic insulated copper wires | |
| wire diameter | 0.40...0.65 mm |
| overall diameter | 0.70...1.40 mm |
| AWG 26...22 | |

TERMINATOR®

| | |
|------------------------------------|-----------------------------|
| KRONE LSA-PLUS contacts® | |
| for plastic insulated copper wires | |
| wire cross section | 0.50...1.50 mm ² |
| wire diameter | 0.80...1.40 mm |
| overall diameter | 1.50...3.30 mm |
| AWG 20...16 | |

Wires per contact

(with the same diameter):

Series 1, 2, 7 and 8

| | |
|-------------------------------|----------------------|
| Mini-distributor 8/2 and 8/10 | max. 2 ^{c)} |
|-------------------------------|----------------------|

Series 4

| | |
|--|----------------------|
| | max. 2 ^{d)} |
|--|----------------------|

TERMINATOR

| | |
|--|---|
| | 1 |
|--|---|

a) After connecting ≥ 0.65 mm wires in the LSA-contacts once, it is not possible to connect ≤ 0.65 mm wires again

b) Other diameters on request

c) 2 wires only for conductor wires with diameters from 0.4 up to 0.65 mm

d) 2 wires only for conductor wires with a diameter of 0.5 mm



Technical Data for LSA-PLUS® Series 1, 2, 2/8abs, 8 and Mini Distributors 8/2 and 8/10

General technical data:

Environment:
Dry or damp rooms without condensation.

Temperature range:
Storage $-40...+90^{\circ}\text{C}$,
 $-40...+194^{\circ}\text{F}$
Operation $-20...+80^{\circ}\text{C}$,
 $-4...+176^{\circ}\text{F}$

Mechanical values:

LSA-PLUS Module, Series 2, with KRONE LSA-PLUS contacts for plastic insulated copper wires with solid or stranded copper wires for insulation displacement connection according to IEC 352-4, part 4 and DIN 41 611-6-C-EL-CL.

Conductor diameter

a) solid wire:
for connections with one wire $0.40...0.80^*\text{ mm}$,
AWG 26...20

for connecting two wires of the same diameter and same type $0.40...0.65\text{ mm}$,
AWG 26...22

b) stranded wire
for connection with one wire $7 \times 0.12...0.32\text{ mm CuSn}$,
AWG 28...20

Other stranded wires on request

Overall diameter (insulating PVC or PE) untwisted $0.70...1.60\text{ mm}$

Number of conductors per contact: max. 2

Repeatability of the wire connecting:

* with stranded wires or solid wires
0.40...0.65 mm: 200 x
* with solid wires 0.80 mm: 50 x

Materials:

Plastic parts: PBT,
Flammability: acc. to UL 94 V-0
LSA contact: special brass,
silver-plated $0.5\text{ }\mu\text{m}$
Contact area $\geq 5\text{ }\mu\text{m}$

Electrical values:

(after 4-day storage in a constant climate environment at $+40^{\circ}\text{C}$ ($+104^{\circ}\text{F}$) and 93% rel. humidity)

Insulation resistance $\geq 5 \times 10^4\text{ M}\Omega$
Dielectric strength 2 kVeff
Impulse strength 3.6 kV
(waveform 1.2/50 μs)

Current carrying capacity of the LSA-PLUS contact: corresponds to the acceptable current load of the connected wire

Permitted current impulse capacity of the * connection module 10 kA (wire diameter $\leq 0.6\text{ mm} = 5\text{ kA}$)

* disconnection module 5 kA
* switching module 5 kA
(waveform 8/20 μs)

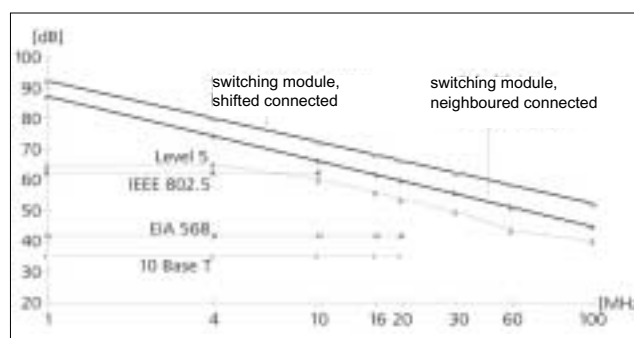
Contact resistance:

Typical $1\text{ m}\Omega$
Guaranteed $\leq 2.5\text{ m}\Omega$

Total resistance $\leq 10\text{ m}\Omega$
including disconnection contact

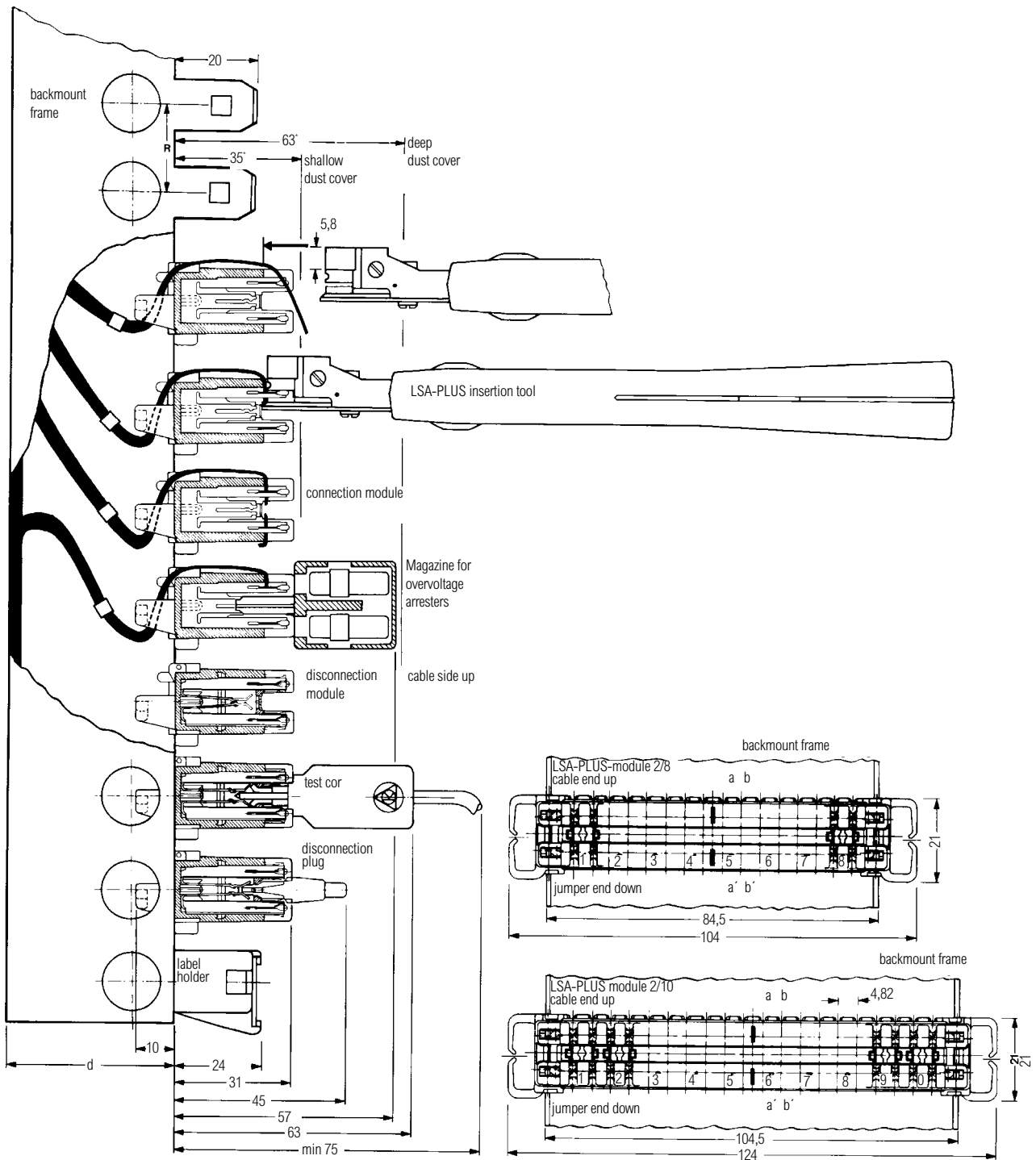
* Connecting wires $\leq 0.65\text{ mm}$ after connecting once wires $\geq 0.65\text{ mm}$ in the LSA-contacts is not possible

Communication transmission values:





LSA-PLUS®-Series 2 Dimensions



LSA-PLUS®-Series 1



1.1

LSA-PLUS®-Series 1 for Mounting Plates, 10 pairs and 20 pairs

| Order No. | LSA-PLUS connection modules 1/10 | Pack |
|---------------|---|--------|
| 6196 2 001-02 | LSA-PLUS connection module 1/10 printed 1-0, Support contacts | 10 pcs |
| 6196 2 001-00 | LSA-PLUS connection module 1/10 printed, Support contacts | 10 pcs |

For 10 pairs, fixed by screws Ø 4 mm, with fixing dimension of 96 mm.
Prepared Distribution boxes are:

| | | |
|----------------|---------------------|-------------------------------|
| Outdoor boxes: | KRONECTION Box A30 | (6541 1 002-00) max. 20 pairs |
| | KRONECTION Box A100 | (6542 1 002-00) max. 40 pairs |
| Indoor boxes: | KRONECTION Box I | (6436 1 001-20) max. 20 pairs |
| | KRONECTION Box II | (6406 1 001-20) max. 40 pairs |
| | KRONECTION Box III | (6437 1 001-20) max. 80 pairs |

| Order No. | LSA-PLUS earth modules 1/44 | Pack |
|---------------|--|------|
| 6196 2 003-00 | LSA-PLUS earth module 1/44 blank, grey | 1 pc |
| 6196 2 003-01 | LSA-PLUS earth module 1/44 blank, red | 1 pc |

For 44 poles, fixed by screws Ø 4 mm, with fixing dimension of 96 mm, all contacts connected to support contacts. Prepared Distribution boxes are: (see above LSA-PLUS connection modules 1/10)

| Order No. | LSA-PLUS connection modules 1/20 | Pack |
|---------------|--|--------|
| 6196 2 002-02 | LSA-PLUS connection modules 1/20 printed 1-0, Support contacts | 10 pcs |
| 6196 2 002-00 | LSA-PLUS connection modules 1/20 printed, Support contacts | 10 pcs |

For 20 pairs, fixed by screws Ø 4 mm, with fixing dimension of 170 mm.

Prepared Distribution boxes are :

| | | |
|-----------------|---------------------|-------------------------------|
| Outdoor boxes : | KRONECTION Box A100 | (6542 1 002-00) max. 40 pairs |
| Indoor boxes : | KRONECTION Box III | (6437 1 001-20) max. 80 pairs |
| | or KVK | (6803 1 101-00) max.120 pairs |

| Order No. | LSA-PLUS Earth module 1/84 | Pack |
|---------------|--|------|
| 6196 2 004-00 | LSA-PLUS earth module 1/84 blank, grey | 1 pc |
| 6196 2 004-01 | LSA-PLUS earth module 1/84 blank, red | 1 pc |

For 84 poles, fixed by screws Ø 4 mm, with fixing dimension of 170 mm, all contacts connected to support contacts. Prepared Distribution boxes are: (see above LSA-PLUS connection modules 1/20)





LSA-PLUS®-Series 1 Accessories

| Order No. | LSA Label holder | Pack |
|---------------|--|------|
| 6196 2 005-00 | LSA Label holder 1/10 printed 1-0 | 1 pc |
| 6196 2 006-00 | LSA Label holder 1/20 printed 2x(1-0) | 1 pc |

For clicking onto LSA-PLUS modules, Series 1. With transparent cover and paper label.



| Order No. | LSA Cord | Pack |
|---------------|-------------------------------|------|
| 6529 1 020-01 | LSA Cord 1/1x2-open, 2p, 1.5m | 1 pc |

Test cord length: 1.50m
With LSA-PLUS-Series 1 plug and open at one end (2-wire)
For testing components of LSA-PLUS Series 1.



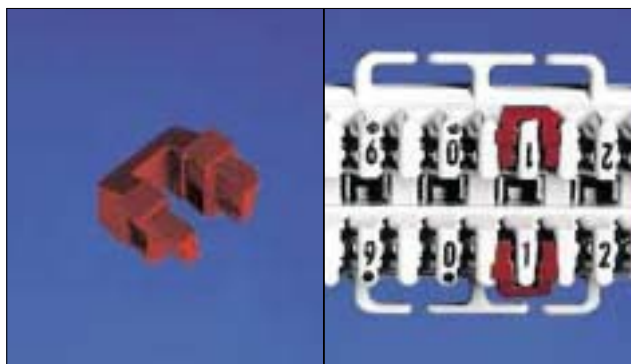
| Order No. | LSA Cord | Pack |
|---------------|--------------------------------|------|
| 6196 2 008-00 | LSA Cord 1/1x2-2Kp, 2p, 0.125m | 1 pc |

Test cord length: 0.125m
With LSA-PLUS-Series 1 plug and 2 sockets.
For testing components of LSA-PLUS Series 1.



| Order No. | Marking cap 1/1 | Pack |
|---------------|-------------------------|------|
| 6196 3 042-00 | LSA Marking cap 1/1 red | 1 pc |

For marking important wires on LSA-PLUS connection modules 1/10 or 1/20.
Colour: red





LSA-PLUS®-Series 2

LSA-PLUS®-Series 2/10 for backmount frame, 10 pairs

| Order No. | Connection modules for 10 pairs | Pack |
|---------------|---|--------|
| 6089 1 002-02 | LSA-PLUS connection modules 2/10 printed 1-0, cable end up | 10 pcs |
| 6089 1 002-06 | LSA-PLUS connection modules 2/10 printed 0-9, cable end up | 10 pcs |
| 6089 1 002-01 | LSA-PLUS connection modules 2/10 printed 1-0, cable end up, Colour code 1 | 10 pcs |
| 6089 1 002-09 | LSA-PLUS connection modules 2/10 printed 1-0, cable end up, Colour code 3 | 10 pcs |
| 6089 1 002-03 | LSA-PLUS connection modules 2/10 printed 1-0, cable end down, Colour code 2 | 10 pcs |
| 6089 1 002-05 | LSA-PLUS connection modules 2/10 printed 0-9, cable end down, Colour code 2 | 10 pcs |

| Order No. | Disconnection modules for 10 pairs | Pack |
|---------------|---|--------|
| 6089 1 102-02 | LSA-PLUS disconnection module 2/10 printed 1-0, cable end up | 10 pcs |
| 6089 1 102-06 | LSA-PLUS disconnection module 2/10 printed 0-9, cable end up | 10 pcs |
| 6089 1 102-01 | LSA-PLUS disconnection module 2/10 printed 1-0, cable end up, Colour code 1 | 10 pcs |
| 6089 1 102-09 | LSA-PLUS disconnection module 2/10 printed 1-0, cable end up, Colour code 3 | 10 pcs |
| 6089 1 102-03 | LSA-PLUS disconnection module 2/10 printed 1-0, cable end down, Colour code 2 | 10 pcs |
| 6089 1 102-05 | LSA-PLUS disconnection module 2/10 printed 0-9, cable end down, Colour code 2 | 10 pcs |

| Order No. | Switching module for 10 pairs | Pack |
|---------------|--|-------|
| 6089 2 089-00 | LSA-PLUS switching module 2/10 printed 1-0, cable end up | 1 pcs |

For switching up to 20 pairs with LSA-PLUS switching module 2/10.
The overall diameter of the single wires can range from 0.7mm to 1.6mm.
For 4pole or 8pole cabling systems.

| Order No. | Earth module for 38 earth wires | Pack |
|---------------|--|------|
| 6089 2 017-00 | LSA-PLUS earth module 2/38 earth wire: red, 250mm, cable lug 1 | 1 pc |
| 6089 2 017-03 | LSA-PLUS earth module 2/38 earth wire: ye/gn, 500mm, pin socket 2 | 1 pc |
| 6089 2 017-04 | LSA-PLUS earth module 2/38 earth wire: red, 500mm, slotted prong 3 | 1 pc |
| 6089 2 017-08 | LSA-PLUS earth module 2/38 earth wire: red, 750mm, pin socket 4 | 1 pc |

| | | | |
|-----|--|-----|--|
| 1 = | | 2 = | |
| 3 = | | 4 = | |



| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Colour code 1: | RD | GN | GR | YE | WH | | | | | |
| Colour code 2: | WT | | | RD | | | | | | |
| | BL | YE | GN | BR | GR | BL | YE | GN | BR | GR |
| Colour code 3: | BL | OR | GN | BR | GR | BL | OR | GN | BR | GR |
| | WH | | | | | BK | | | | |





LSA-PLUS®-Series 2/8 for backmount frame, 8 pairs

| Order No. | Connection module for 8 pairs | Pack |
|---------------|---|--------|
| 6036 1 002-00 | LSA-PLUS connection module 2/8 printed 1-8, Cable end up | 10 pcs |

Connection modules for 8 pairs with contacts for monitoring, or for Over-voltage protection magazines. For clicking onto backmount frames 2/8 .
1 set = 10 pieces including 1 set of number flags 1...0



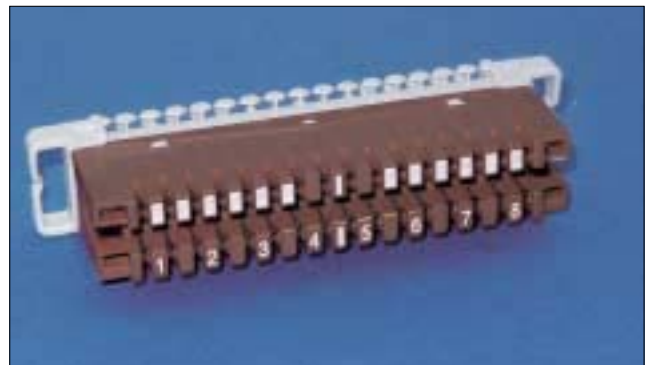
| Order No. | Disconnection module for 8 pairs | Pack |
|---------------|--|--------|
| 6036 1 102-00 | LSA-PLUS disconnection module 2/8 printed 1-8, Cable end up | 10 pcs |

Disconnection module for 8 pairs with disconnection point for opening the line. Testing possible in both directions. Use of graded protection elements also possible. For clicking onto backmount frames 2/8 .
1 set = 10 pieces including 1 set of number flags 1...0



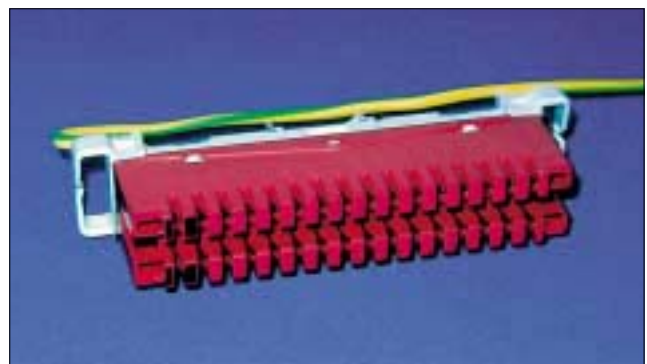
| Order No. | Switching module for 10 pairs | Pack |
|---------------|---|------|
| 6036 1 103-00 | LSA-PLUS Switching module 2/10 printed 1-0, Cable end up | 1 pc |

For switching up to 16 pairs with LSA-PLUS switching module 2/8.
The overall diameter of the single wires can range from 0.7mm to 1.6mm.
For 4pole or 8pole cabling systems.



| Order No. | Earth module for 30 earth wires | Pack |
|---------------|---|------|
| 6036 2 006-00 | LSA-PLUS earth module 2/30 earth wire: red, 250mm, cable lug 1 | 1 pc |
| 6036 2 006-01 | LSA-PLUS earth module 2/30 earth wire: ye/gn, 500mm, cable lug 1 | 1 pc |
| 6036 2 006-03 | LSA-PLUS earth module 2/30 earth wire: red, 1000mm, cable lug 1 | 1 pc |

1 =





LSA-PLUS®-Series 2

LSA-PLUS®-Series 2/6x3 for backmount frame, 6 x 3 poles

| Order No. | Disconnection modules 3-pole | Pack |
|---------------|--|--------|
| 6504 2 002-00 | LSA-PLUS disconnection module 2/6x3 printed gp1-gp6, 6xabs, cable end up | 10 pcs |
| 6504 2 002-03 | LSA-PLUS disconnection module 2/6x3 printed 1-6, cable end up | 10 pcs |

Disconnection module for 6 three-wire lines for connecting and distributing shielded pairs with a disconnection point for opening the lines or for testing in both directions, cable end up. For clicking onto backmount frame 2/10.



| Order No. | Switching module 3-pole | Pack |
|---------------|--|--------|
| 6504 2 012-01 | LSA-PLUS switching module 2/6x3 printed gp1-gp6, 6xabs, cable end up | 10 pcs |

Switching module for 6 three-wire lines for connecting and distributing shielded pairs with a switching point for patching the lines or for testing in both directions, cable end up. For clicking onto backmount frame 2/10.



| Order No. | Connection modules for 5 pairs | Pack |
|---------------|--|--------|
| 6585 2 001-00 | LSA-PLUS connection modules 2/5 printed | 10 pcs |

LSA-PLUS connection modules, 5 pairs, fixed by screws.



| Order No. | Disconnection module for 5 pairs | Pack |
|---------------|---|--------|
| 6585 2 002-00 | LSA-PLUS disconnection module 2/5, blank | 10 pcs |

LSA-PLUS disconnection modules, 5 pairs, fixed by screws.



LSA-PROFIL®-Series 2/10 for profile rods, 10 pairs

| Order No. | Connection modules for 10 pairs | Pack |
|---------------|---|--------|
| 6089 1 120-02 | LSA-PROFIL connection module 2/10 printed 1-0 | 10 pcs |
| 6089 1 120-19 | LSA-PROFIL connection module 2/10 printed. 1-0, large jumper guides | 10 pcs |
| 6089 1 120-01 | LSA-PROFIL connection module 2/10 printed 1-0, colour code 1 | 10 pcs |

Colour code 1:



| Order No. | Disconnection modules for 10 pairs | Pack |
|---------------|--|--------|
| 6089 1 121-02 | LSA-PROFIL disconnection module 2/10, printed 1-0 | 10 pcs |
| 6089 1 121-17 | LSA-PROFIL disconnection module 2/10, printed 1-0, large jumper guides | 10 pcs |
| 6089 1 121-30 | LSA-PROFIL disconnection module 2/10-L, printed 1-0, without jumper guides | 10 pcs |
| 6089 1 121-01 | LSA-PROFIL disconnection module-2/10 printed 1-0, Colour code 1 | 10 pcs |

Colour code 1:



| Order No. | Switching modules for 10 pairs | Pack |
|---------------|--|--------|
| 6089 1 126-00 | LSA-PROFIL switching module 2/10, printed 1-0 | 10 pcs |
| 6089 1 126-02 | LSA-PROFIL switching module 2/10-L, printed 1-0, without jumper guides | 10 pcs |

For switching up to 20 pairs. The overall diameter of the single wires can range from 0.7mm to 1.6mm. Brown enclosure. Designed for universal use with LSA-PROFIL rods and LSA-PLUS backmount frames 2/10. 1 set = 10 pieces, including 1 set of number flags 1...0

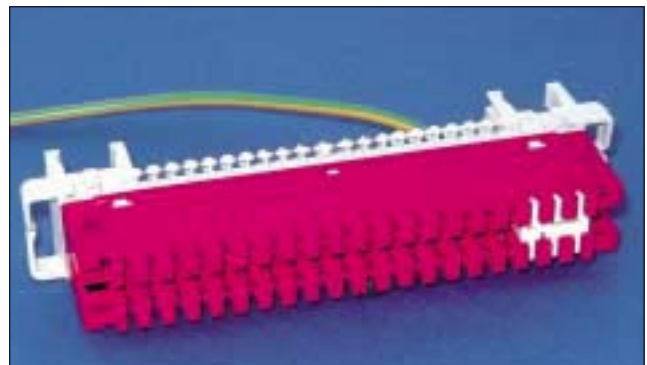


| Order No. | Earth module for 34 earth wires | Pack |
|---------------|--|------|
| 6089 1 130-01 | LSA-PROFIL earth module 2/34 with earth wire, ye/gn, 500mm, with cable lug 3 | 1 pc |

3 =



For connecting integral earth wires to an earth contact without any soldering, use of screws or stripping of wires. Designed for universal use with LSA-PROFIL rods and LSA-PLUS backmount frames 2/10.





LSA-PROFIL®-Series 2

LSA-PROFIL®-Series 2/8 for LSA-PROFIL-rod, 8 pairs

| Order No. | Connection module for 8 pairs | Pack |
|---------------|---|--------|
| 6036 1 004-00 | LSA-PROFIL connection module 2/8, printed 1-8 | 10 pcs |

1 set = 10 pieces, including 1 set of number flags 1...0
 Connection module for 8 pairs with parallel test access or overvoltage protection contact. Grey enclosure.
 Designed for universal use with: LSA-PROFIL rods and LSA-backmount frames 2/8.



| Order No. | Disconnection module for 8 pairs | Pack |
|---------------|--|--------|
| 6036 1 005-00 | LSA-PROFIL disconnection module 2/8, printed 1-8 | 10 pcs |

Disconnection module for 8 or 10 pairs with disconnection point for opening the line. Testing possible in both directions. Use of graded protection elements also possible. White enclosure.
 Designed for universal use with: LSA-PROFIL rods and LSA-backmount frames 2/8.



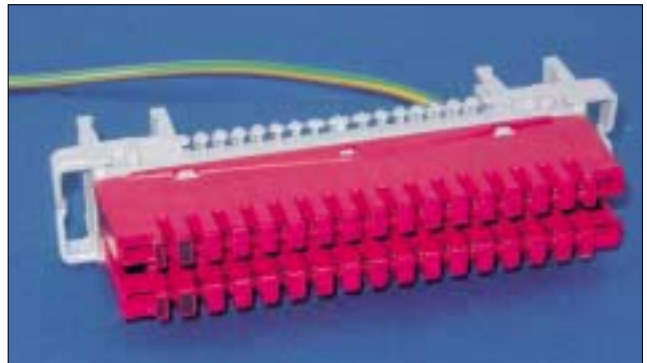
| Order No. | Switching module for 8 pairs | Pack |
|---------------|---|--------|
| 6036 1 006-00 | LSA-PROFIL switching module 2/8 printed 1-8 | 10 pcs |

1 set = 10 pieces, including 1 set of number flags 1...0
 For switching up to 16 pairs with 2/8. The overall diameter of the single wires can range from 0.7mm to 1.6mm. Brown enclosure.
 Designed for universal use with: LSA-PROFIL rods and LSA-backmount frames 2/8.



| Order No. | Earth module for 26 earth wires | Pack |
|---------------|---|------|
| 6036 1 105-00 | LSA-PROFIL earth module 2/26 with earth wire, length 500mm, colour red, cable lug 1 | 1 pc |

1 = 





LSA-PROFIL®-Series 2/8-95 for LSA-PROFIL-rods, 8 pairs

| Order No. | Connection module for 8 pairs | Pack |
|---------------|--|--------|
| 6089 1 127-00 | LSA-PROFIL connection module 2/8-95, printed 1-8 | 10 pcs |

Connection module for 8 pairs with 95 mm fixing dimension, printed 1...8 (can be installed together with LSA PROFIL modules 2/10 in the same bay). Designed for universal use with LSA-PROFIL rods and LSA-PLUS backmount frame 2/10.

1 set = 10 pieces, including 1 set of number flags 1...0.



| Order No. | Disconnection module for 8 pairs | Pack |
|---------------|---|--------|
| 6089 1 128-01 | LSA-PROFIL disconnection module 2/8-95, printed 1-8 | 10 pcs |

Disconnection module for 8 pairs with 95 mm fixing dimension, printed 1...8 (can be installed together with LSA PROFIL modules 2/10 in the same bay). Designed for universal use with LSA-PROFIL rods and LSA-PLUS backmount frame 2/10.

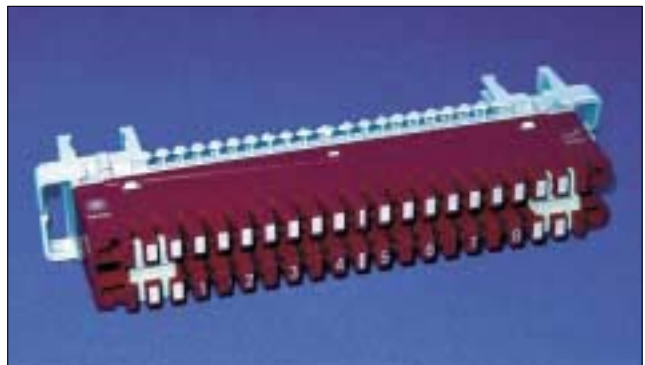
1 set = 10 pieces, including 1 set of number flags 1...0.



| Order No. | Switching module for 8 pairs | Pack |
|---------------|---|--------|
| 6089 1 129-00 | LSA-PROFIL switching module 2/8-95, printed 1-8 | 10 pcs |

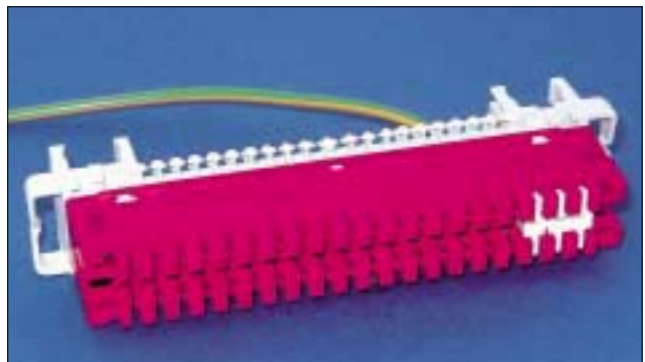
For switching up to 16 pairs with 95 mm fixing dimension, printed 1...8. The overall diameter of the single wires can range from 0.7mm to 1.6mm. Designed for universal use with LSA-PROFIL rods and LSA-PLUS backmount frame 2/10.

1 set = 10 pieces, including 1 set of number flags 1...0.



| Order No. | Earth module for 34 earth wires | Pack |
|---------------|--|------|
| 6089 1 130-01 | LSA-PROFIL earth module 2/34 with earth wire, length 500 mm, colour green/yellow, with slotted tongue (3) for 4mm screws | 1 pc |

3 =





LSA Backmount Frame 2/10

LSA-PLUS®-backmount frame 2/10 for 10 pairs Module

| Order No. | Backmount frames 2/10, R=22.5mm | Pack |
|---------------|---|------|
| 6050 3 112-03 | LSA backmount frame 2/10, R=22.5 HP1, d=12mm for 3 modules | 1 pc |
| 6050 3 112-05 | LSA backmount frame 2/10, R=22.5 HP1, d=12mm for 5 modules | 1 pc |
| 6050 3 112-10 | LSA backmount frame 2/10, R=22.5 HP1, d=12mm for 10 modules | 1 pc |
| 6050 3 112-50 | LSA backmount frame 2/10, R=22.5 HP1, d=12mm for 50 modules | 1 pc |
| 6050 3 122-03 | LSA backmount frame 2/10, R=22.5 HP1, d=22mm for 3 modules | 1 pc |
| 6050 3 122-05 | LSA backmount frame 2/10, R=22.5 HP1, d=22mm for 5 modules | 1 pc |
| 6050 3 122-10 | LSA backmount frame 2/10, R=22.5 HP1, d=22mm for 10 modules | 1 pc |
| 6050 3 122-11 | LSA backmount frame 2/10, R=22.5 HP1, d=22mm for 11 modules | 1 pc |
| 6050 3 122-50 | LSA backmount frame 2/10, R=22.5 HP1, d=22mm for 50 modules | 1 pc |
| 6050 3 130-50 | LSA backmount frame 2/10, R=22.5 HP1, d=30mm for 50 modules | 1 pc |
| 6050 3 150-50 | LSA backmount frame 2/10, R=22.5 HP1, d=50mm for 50 modules | 1 pc |

| Order No. | Backmount frames 2/10, R=25mm | Pack |
|---------------|---|------|
| 6442 3 112-50 | LSA backmount frame 2/10, R=25 HP1, d=12mm for 50 modules | 1 pc |
| 6442 3 122-50 | LSA backmount frame 2/10, R=25 HP1, d=22mm for 50 modules | 1 pc |
| 6442 3 130-50 | LSA backmount frame 2/10, R=25 HP1, d=30mm for 50 modules | 1 pc |
| 6442 3 150-50 | LSA backmount frame 2/10, R=25 HP1, d=50mm for 50 modules | 1 pc |

Technical data:

| | |
|-----------------|--|
| Climatic range: | For all temperatures and climatic conditions, only limited by the LSA PLUS modules connected. |
| Materials: | Stainless steel X 5 CrNi 1810n, untreated |
| Corrosion: | When moisture occurs, stainless steel has a high affinity especially to aluminum, cadmium and zinc. Fixing elements and metal supports should have a tin or nickel surface or be made of stainless steel of quality described above. |

| Order No. | Backmount frames 2/10, R=22.5mm, modular | Pack |
|--|--|------|
| 6973 1 210-02 | LSA backmount frame 2/10, modular LB1&2, T=22mm for 45 modules | 1 pc |
| 6973 1 210-04 | LSA backmount frame 2/10, modular LB1&2, T=50mm for 45 modules | 1 pc |
| According to the requirement arbitrarily separably For maximal 45 modules. Other depths on request. | | |

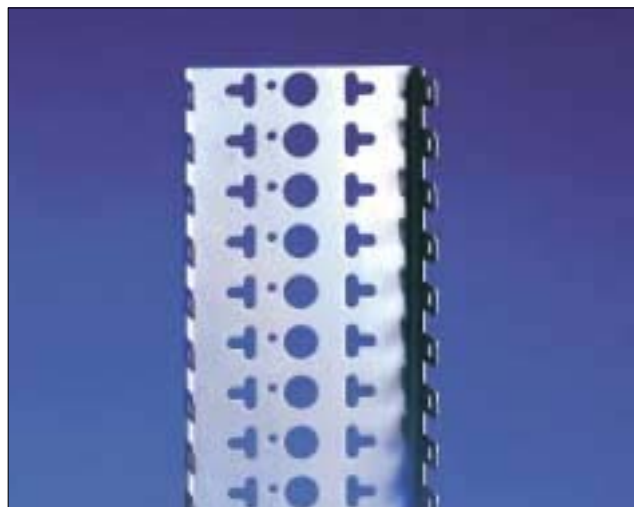
Order Information:

The listed backmount frames are only part of the whole range. Different lengths on request. The last two digits indicate the number of modules that can be installed.

LSA backmount frame 2/10 with hole pattern 1 for clipping on LSA-PLUS modules 2/10 and LSA-PLUS modules 2/6x3.

For special use with mounting adapters 6455 3 027-00 or for KRONECTION® boxes, I, II, III (only for a depth of 22 mm), for KRONECTION® boxes-A 30 and A100 (only for a depth of 22 mm), or for universal mounting of individual modules in cabinets, in appliances or on walls.

In these applications, the pitch (R) of 22.5 mm can always be used, as jumper wires can be fed in from both sides of the module. The pitch of 25 mm is only used in main distribution racks, although here, backmount frames with hole pattern 2 can always be used.



hole pattern 1

Mounting instruction:

If several backmount frames are mounted next to each other, a minimum gap of 60 mm must be observed. If connection blocks with 50 or 100 wire pairs are mounted above each other with dust cover, a minimum gap of 8 mm between the backmount frames must be observed when mounting.





LSA-PLUS®-backmount frame 2/8 for 8 pairs-Module

| Order No. | Backmount frame 2/8, R=22.5mm | Pack |
|---------------|---|------|
| 6054 3 112-01 | LSA backmount frame 2/8, R=22.5 LB1, d=12mm for 1 module | 1 pc |
| 6054 3 112-50 | LSA back mount frame 2/8, R=22.5 LB1, d=12mm for 50 modules | 1 pc |
| 6054 3 122-03 | LSA back mount frame 2/8, R=22.5 LB1, d=22mm for 3 modules | 1 pc |
| 6054 3 122-05 | LSA back mount frame 2/8, R=22.5 LB1, d=22mm for 5 modules | 1 pc |
| 6054 3 122-10 | LSA back mount frame 2/8, R=22.5 LB1, d=22mm for 10 modules | 1 pc |
| 6054 3 122-11 | LSA back mount frame 2/8, R=22.5 LB1, d=22mm for 11 modules | 1 pc |
| 6054 3 122-50 | LSA-back-mount frame 2/8, R=22,5 LB1, d=22mm for 50 modules | 1 pc |
| 6054 3 130-50 | LSA-back-mount frame 2/8, R=22,5 LB1, d=30mm for 50 modules | 1 pc |
| 6054 3 150-50 | LSA-back-mount frame 2/8, R=22,5 LB1, d=50mm for 50 modules | 1 pc |

Order Information:

The listed backmount frames are only part of the whole range. Different lengths on request. The last two digits indicate the number of modules that can be installed.

LSA backmount frame 2/8 with hole pattern 1 for clipping on LSA-PLUS-modules 2/8.

For special use with mounting adapters 6455 3 027-00 or for KRONNECTION® boxes, I, II, III (only for a depth of 22 mm), for KRONNECTION® boxes-A 30 and A100 (only for a depth of 22 mm), or for universal mounting of individual modules in cabinets, in appliances or on walls.

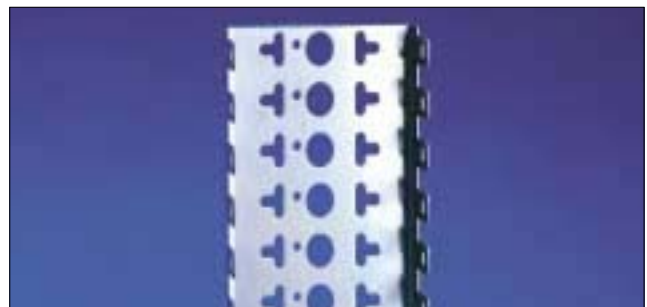
In these applications, the pitch (R) of 22,5 mm can always be used, as jumper wires can be fed in from both sides of the module. The pitch of 25 mm is only used in main distribution racks, although here, back-mount frames with hole pattern 2 can always be used.

Mounting instruction:

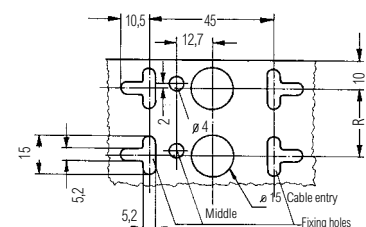
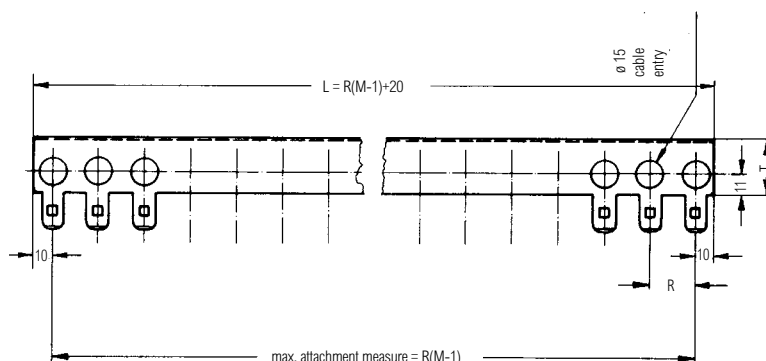
See LSA-PLUS-backmount frames 2/10

| Order No. | Backmount frame 2/8, R=25mm | Pack |
|---------------|--|------|
| 6441 3 112-50 | LSA backmount frame 2/8, R=25 LB1, d=12mm for 50 modules | 1 pc |
| 6441 3 122-50 | LSA backmount frame 2/8, R=25 LB1, d=22mm for 50 modules | 1 pc |
| 6441 3 130-50 | LSA backmount frame 2/8, R=25 LB1, d=30mm for 50 modules | 1 pc |
| 6441 3 150-50 | LSA backmount frame 2/8, R=25 LB1, d=50mm for 50 modules | 1 pc |

Technical data: See LSA-PLUS-backmount frames 2/10



hole pattern 1



Arithmetical example for LSA backmount frame 2/10, R=22.5mm for 10 modules (6050 3 112-10)

$$\text{Length}[L] = 22.5[R] \times (10[\text{modules}] - 1) + 20 = 222.5 \text{ mm}$$



Accessories LSA-Series 2

LSA-PLUS®-backmount frame-Accessories, dust covers 2/10

| Order No. | Edge protection strips | Pack |
|---------------|--|------|
| 6092 3 017-00 | LSA edge protection strip length = 120 mm | 1 pc |
| 6092 3 017-01 | LSA edge protection strip length = 60 mm | 1 pc |

For protection against accidents whilst working on partially equipped backmount frames. Inserted over the teeth of the backmount frame which are not used.



| Order No. | Cable protection rings | Pack |
|---------------|----------------------------|------|
| 6050 3 044-00 | LSA cable protection rings | 1 pc |

Suitable for the 15-mm holes on the back and side of the backmount frame. Designed to protect cable insulation when passing through cable bundles.



| Order No. | Mounting adapter | Pack |
|---------------|----------------------|------|
| 6455 3 027-00 | LSA Mounting adapter | 1 pc |

Prepared to accommodate LSA-PROFIL rods with distance of 95 mm according to LSA-PROFIL Series 2/10 and also suitable to accommodate LSA backmount frame 2/10 or LSA backmount frame 2/8. The LSA mounting adapter may be arranged in a horizontal and a vertical order. Thus, flexible distributors are possible. The necessary installation aids are already integrated in the adapters. Per bay, (LSA-PROFIL)2 LSA mounting adapters are necessary.

Material: PPO (modified Polyphenylenoxid), Colour: grey
Temperature range in operation: -20°C to +65°C



| Order No. | Dust cover 2/10 | Pack |
|---------------|---|------|
| 6092 3 016-00 | LSA dust cover 2/10, shallow, transparent, 100 pairs | 1 pc |
| 6092 3 016-01 | LSA dust cover 2/10, shallow transparent, 50 pairs | 1 pc |
| 6089 2 097-00 | LSA dust cover 2/10, 10 pairs | 1 pc |
| 6092 3 034-00 | LSA dust cover 2/10, deep, 100 pairs (protection magazine can be fitted) | 1 pc |
| 6092 3 034-01 | LSA dust cover 2/10, deep, 50 pairs (protection magazine can be fitted) | 1 pc |





LSA-PLUS®-Label holder 2/10

| Order No. | Module label holder 2/10 | Pack |
|---------------|--|------|
| 6092 2 012-00 | LSA module label holder 2/10 with label, printed | 1 pc |
| 6092 2 012-02 | LSA module label holder 2/10 with label, blank | 1 pc |

Label holder 21mm, height of paper label 15mm, blank



| Order No. | Module label holder 2/10, extra-large | Pack |
|---------------|--|------|
| 6092 2 012-01 | LSA module label holder 2/10 with label 22mm | 1 pc |

Extra-large label space, height of label holder 28mm, height of paper label 22mm, blank



| Order No. | Module label holder 2/10 with earth socket | Pack |
|---------------|--|--------|
| 6092 2 028-00 | LSA module label holder 2/10 with earth socket and label | 10 pcs |

For fixing on backmount frames, with earth socket (red) and contact to the backmount frame, with label, requires the space otherwise needed for one module on backmount frames 2/10.



| Order No. | Hinged label holder 2/10 | Pack |
|---------------|---|------|
| 6089 2 015-01 | LSA hinged label holder 2/10 with label 9mm | 1 pc |

Can be attached to LSA-PLUS/PROFIL modules and overvoltage protection magazines with transparent cover and paper label, blank. Height of paper label 9mm



| Order No. | Paper labels | Pack |
|-----------------|------------------------------|---------|
| 6089 2 015-01BS | LSA label-2/10-A4/32x, white | 100 pcs |

A4 sheets, perforated. 32 paper labels on one A4-bent. For laser and inkjet printers. Enables an EDP supported inscription of hinged label holders (KKNr. 6089 2 015-01).



Accessories LSA-Series 2/8

LSA-PLUS® Label holder 2/8

| Order No. | Module label holder, 2/8 | Pack |
|---------------|--|-------|
| 6036 2 018-00 | LSA module label holder 2/8 with label, blank | 1 pcs |

Label holder 16 mm, height of paper label 13 mm, blank



| Order No. | Module label holder, 2/8, with earth socket | Pack |
|---------------|--|--------|
| 6036 2 019-00 | LSA module label holder 2/8 with label, printed, red earth socket | 10 pcs |

For fixing on backmount frames, with earth socket (red) and contact to the backmount frame, with label, requires the space otherwise needed for one module on backmount frames 2/10.



| Order No. | Hinged label holder 2/8 | Pack |
|---------------|--|-------|
| 6036 2 005-02 | LSA hinged label holder 2/8, with label | 1 pcs |

Can be attached to LSA-PLUS/PROFIL modules and overvoltage protection magazines with transparent cover and paper label, blank.
Height of paper label 9mm





LSA-PROFIL®-racks

| Order No. | PROFIL module rack | Pack |
|---------------|---|------|
| 6690 1 125-00 | LSA-PROFIL module rack C1, (kit) | 1 pc |
| 6690 1 126-00 | LSA-PROFIL earthing set C1 for module rack C1 | 1 pc |

Module rack with angled side walls (fiber-reinforced plastic)
Profile rods: blue, galvanized. Designed for installation in 19" racks



| Order No. | PROFIL rods | Pack |
|---------------|--|------|
| 6619 3 307-80 | LSA-PROFIL rod, 780mm with M5 threaded hole at the end | 1 pc |
| 0637 0 005-73 | LSA-PROFIL rod, 780mm | 1 pc |

Profile rods with M5 threaded hole at the end for use with LSA-PROFIL bar bracelet 95 or 75. Available in different lengths on request.



| Order No. | Mounting adapter | Pack |
|---------------|----------------------|------|
| 6455 3 027-00 | LSA-mounting adapter | 1 pc |

Prepared to accommodate LSA-PROFIL rods with distance of 95 mm according to LSA-PROFIL Series 2/10 and also suitable to accommodate LSA-Backmount frame 2/10 or LSA-Backmount frame 2/8. The LSA-mounting adapter may be arranged in a horizontal and a vertical order. Thus, flexible distributors are possible. The necessary installation aids are already integrated in the adapters. Per bay, (LSA-PROFIL) 2 LSA mounting adapters are necessary.

Material: PPO (modified Polyphenylenoxid), Colour: grey
Temperature range in operation: -20°C to +65°C



| Order-No. | PROFIL-bar bracket (for 10 pairs) | Pack |
|---------------|-----------------------------------|------|
| 6577 3 834-00 | LSA-PROFIL bar bracket 2/10 | 1 pc |

For assembling one LSA-PROFIL bay, you need 2 pcs PROFIL bar brackets (d = 46mm/rod spacing with 95mm).

| Order-No. | PROFIL-bar bracket (for 8 pairs) | Pack |
|---------------|----------------------------------|------|
| 6577 3 834-01 | LSA-PROFIL bar bracket 2/8 | 1 pc |

For assembling one LSA-PROFIL bay, you need 2 pcs PROFIL bar brackets (d = 46mm/rod spacing with 75mm).





Accessories LSA-PROFIL®

LSA-PROFIL®-bar brackets, Earth clamps

| Order No. | PROFIL bar bracket for 2/10Pack | |
|---------------|---------------------------------------|-------|
| 6619 2 025-00 | LSA-PROFIL bar bracket-95 | 2 pcs |
| 6619 2 031-00 | LSA-PROFIL jumper wire bracket double | 4 pcs |
| 5996 3 049-01 | C-rails (615 mm) | 1 pc |
| 313 002 | Sliding nut for C rail M5 | 1 pc |

For one bay you need the following parts:

| | | |
|---------------|---|-------|
| 6619 3 307-80 | PROFIL bars 780mm, with M5 thread holes | 2 pcs |
| 6619 2 025-00 | LSA-PROFIL bar bracket-95 | 2 pcs |
| 6619 2 031-00 | LSA-PROFIL jumper wire bracket, double | 2 pcs |
| 313 002 | Sliding nut for C rail M5 | 4 pcs |

For fixing of 4 bays you need:

| | | |
|---------------|------------------|-------|
| 5996 3 049-01 | C-rails (615 mm) | 2 pcs |
|---------------|------------------|-------|

| Order No. | PROFIL bar bracket for 2/8 | Pack |
|---------------|---|-------|
| 6619 3 020-01 | LSA-PROFIL bar bracket-751 pc | |
| 6619 2 031-01 | LSA-PROFIL jumper wire bracket-75, double | 4 pcs |
| 5996 3 049-01 | C-rails (615 mm) | 1 pc |
| 313 002 | Sliding nut for C rail M5 | 1 pc |

For one bay you need following parts:

| | | |
|---------------|---|-------|
| 6619 3 307-80 | PROFIL-bars 780mm, with M5 thread holes | 2 pcs |
| 6619 3 020-01 | LSA-PROFIL-bar bracket-75 | 2 pcs |
| 6619 2 031-01 | LSA-PROFIL-jumper wire bracket-75, double | 2 pcs |
| 313 002 | Sliding nut for C rail M5 | 4 pcs |

For fixing of 4 bays you need:

| | | |
|---------------|------------------|-------|
| 5996 3 049-01 | C-rails (615 mm) | 2 pcs |
|---------------|------------------|-------|

| Order No. | Earth clamps | Pack |
|---------------|--|------|
| 6619 2 026-00 | Earth clamp for LSA-PROFIL bar bracket (for wire diameters of up to 5mm) | 1 pc |
| 6619 2 027-00 | Earth clamp for LSA-PROFIL bar bracket (for wire diameters of 8mm - 15mm) | 1 pc |

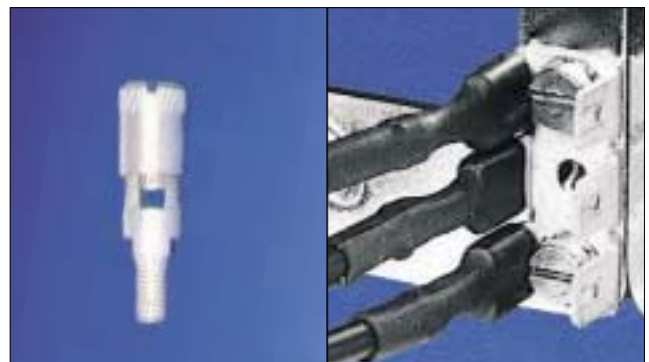
For mounting on profile rods, including screws and assembly instructions.

Figure: left: 6619 2 026-00
rights: 6619 2 027-00

| Order -Nr. | Earth wire clamp, Flat connector | Pack |
|---------------|----------------------------------|-------|
| 6619 2 028-00 | Earth wire clamp | 4 pcs |
| 6619 2 029-00 | Flat connector | 4 pcs |

Earth wire clamp and flat connector, including assembly instructions.

Figure: left: 6619 2 028-00
right: 6619 2 029-00





LSA-PROFIL®-earth contact clip, wire guides

| Order No. | Earth contact clip | Pack |
|---------------|-------------------------------|--------|
| 6089 2 122-00 | LSA-PROFIL earth contact clip | 20 pcs |

For overvoltage connection on profile rods. 2 pieces required for each LSA-PROFIL module.



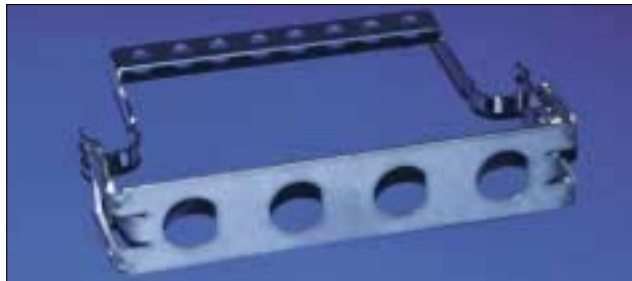
| Order No. | Cable support bracket | Pack |
|---------------|---------------------------------------|--------|
| 6619 2 040-00 | LSA-PROFIL cable support bracket 2/10 | 10 pcs |
| 6619 2 080-00 | LSA-PROFIL cable support bracket 2/8 | 10 pcs |

Bracket for fixing cables with overvoltage protection lugs. Mounting depth: 35mm



| Order No. | Socket holder | Pack |
|---------------|-------------------------------|------|
| 6619 2 004-00 | LSA-PROFIL socket holder 2/10 | 1 pc |

For 4 sockets, 13mm in diameter (BNC), flattened to 12mm, complete with cable support bracket.



| Order No. | Wire guide | Pack |
|-----------|----------------|------|
| 317 167 | Wire guide, PP | 1 pc |

Capacity: approximately 350 pairs.
Dimensions: 79 x 45.6 mm (HxB)
Colour: grey, similar RAL 7032
Material: PP



| Order No. | Wire guide | Pack |
|---------------|---------------------|-------|
| 0637 0 009-08 | Wire guide 70/40 Fe | 1 pcs |

Capacity: approximately 200 pairs.
Dimensions: 55 x 40 mm (HxB)
Material: Metal





LSA-PROFIL®-holder for cable guide, spacer, wire guides

| Order No. | Holder for cable guide | Pack |
|---------------|-----------------------------------|--------|
| 6690 2 101-00 | LSA-PROFIL holder for cable guide | 10 pcs |

Accommodates the cable guide GF/Cu-60. Designed for use in LSA-PROFIL rod systems (mounting dimension: 95mm), e.g., 19" module racks. Mounting holes prepared for M 3 screws. Fixing dimensions from 60 up to 75 mm.



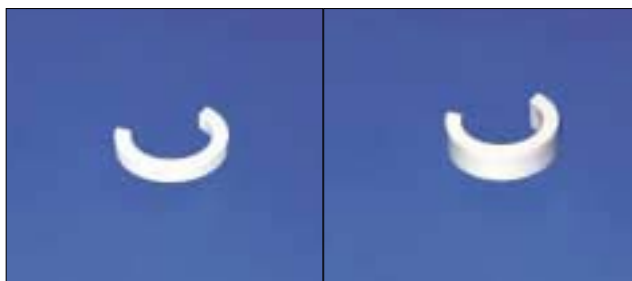
| Order No. | Adapter clip | Pack |
|---------------|-------------------------|--------|
| 6619 2 045-00 | LSA-PROFIL adapter clip | 10 pcs |

Prepared for M5 screw. Can be clipped onto LSA-PROFIL rods.



| Order No. | Spacer | Pack |
|---------------|----------------------------------|---------|
| 6619 2 046-00 | LSA-PROFIL spacer, height 2.5 mm | 100 pcs |
| 6619 2 046-01 | LSA-PROFIL spacer, height 5 mm | 100 pcs |

For ensuring even spacing on LSA-PROFIL rods.



| Order No. | PROFIL jumper guides | Pack |
|---------------|---|-------|
| 6619 2 016-00 | LSA-PROFIL jumper guide 2/10, two-sided | 2 pcs |
| 6619 2 015-00 | LSA-PROFIL jumper guide 2/10, on one side | 2 pcs |

For clipping on to PROFIL rods, height: h = 10mm, projects 45mm to the rear (relative to the centre of the PROFIL bar) and approx. 35mm to the side. Recommended distance between the bays 59 ... 69 mm



| Order No. | PROFIL wire guides | Pack |
|---------------|---------------------------------|--------|
| 6619 2 043-00 | LSA-PROFIL wire guide 5L10 pcs | |
| 6619 2 044-00 | LSA-PROFIL wire guide 5R10 pcs | |
| 6619 2 042-00 | LSA-PROFIL wire guide 5L+5R | 10 pcs |
| 0637 0 007-46 | LSA-PROFIL wire guide 10L10 pcs | |

5L=Supply of 5 pairs from the left side
5R=5L=Supply of 5 pairs from the right side
5L+5R=Supply of 5 pairs from the both sides
10L=Supply of 10 pairs from the left side

Figure: 6619 2 043-00 LSA-PROFIL-wire guide 5L





LSA-PROFIL®-label holder Series 2

| Order No. | Module label holder, 2/10 | Pack |
|---------------|---|------|
| 6753 2 009-00 | LSA-PROFIL module label holder 2/10 with label, blank | 1 pc |

Label holder 21 mm, height of paper label 18 mm, blank

| Order No. | Module label holder, 2/8 | Pack |
|---------------|--|------|
| 6753 2 008-00 | LSA-PROFIL module label holder 2/8 with label, blank | 1 pc |

Label holder 21 mm, height of paper label 18 mm, blank

| Order No. | Hinged label holder 2/10 | Pack |
|---------------|--|------|
| 6089 2 015-01 | LSA hinged label holder 2/10 with label, blank | 1 pc |

Can be attached to LSA-PROFIL modules and overvoltage protection magazines with transparent cover and paper label, blank. Height of paper label 9mm

| Order No. | Paper labels | Pack |
|-----------------|-------------------------------|---------|
| 6089 2 015-01BS | LSA labels-2/10-A4/32x, white | 100 pcs |

A4 sheets, perforated. 32 paper labels on one A4-bent. For laser and inkjet printers. Enables an EDP supported inscription of hinged label holders (KKNr. 6089 2 015-01).

| Order No. | Hinged label holder 2/8 | Pack |
|---------------|---|------|
| 6036 2 005-02 | LSA hinged label holder 2/8 with label, blank | 1 pc |

Can be attached to LSA-PROFIL modules and overvoltage protection magazines with transparent cover and paper label, blank. Height of paper label 9mm.

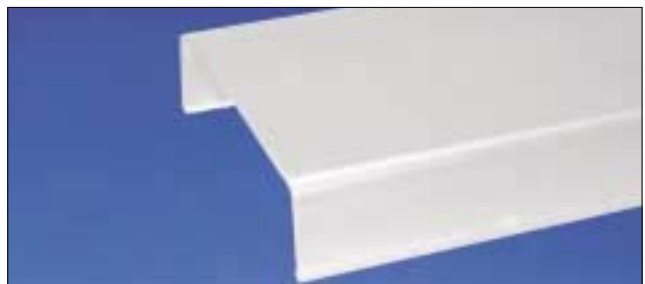
| Order No. | Dust cover | Pack |
|---------------|--------------------------------|------|
| 6619 3 207-73 | LSA-PROFIL dust cover, shallow | 1 pc |
| 6619 3 107-73 | LSA-PROFIL dust cover, deep | 1 pc |

Dust cover for PROFIL system, fixed on the end units, transparent. Protection magazines can only be used with the deep dust cover. Standard length: 773 mm for 30 LSA-PROFIL modules 2/10

| Order No. | End unit | Pack |
|---------------|------------------------------|-------|
| 6619 2 030-00 | LSA-PROFIL end unit, shallow | 2 pcs |
| 6619 2 023-00 | LSA-PROFIL end unit, deep | 2 pcs |

LSA-PROFIL end unit shallow for LSA-PROFIL dust cover shallow with a depth of 41 mm related to profile rod center and a width of 140 mm.

LSA-PROFIL end unit deep for LSA-PROFIL dust cover deep with a depth of 64 mm related to profile rod center and a width of 140 mm.



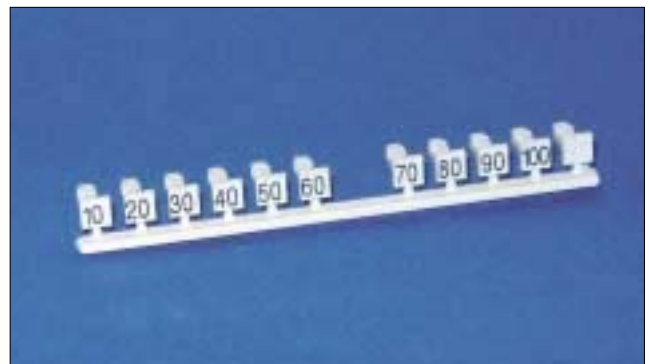


Accessories LSA-Series 2

LSA-number flags, Cover strips

| Order No. | Number flags | Pack |
|---------------|-------------------------------|--------|
| 6089 3 023-00 | LSA number flags 1-0, grey | 10 pcs |
| 6089 3 023-01 | LSA number flags 10-100, grey | 10 pcs |
| 6089 3 023-40 | LSA number flags 1-10, grey | 10 pcs |
| 6089 3 023-41 | LSA number flags 11-20, grey | 10 pcs |
| 6089 3 023-42 | LSA number flags 21-30, grey | 10 pcs |
| 6089 3 023-43 | LSA number flags 31-40, grey | 10 pcs |
| 6089 3 023-44 | LSA number flags 41-50, grey | 10 pcs |
| 6089 3 023-45 | LSA number flags 51-60, grey | 10 pcs |
| 6089 3 023-46 | LSA number flags 61-70, grey | 10 pcs |
| 6089 3 023-47 | LSA number flags 71-80, grey | 10 pcs |
| 6089 3 023-48 | LSA number flags 81-90, grey | 10 pcs |
| 6089 3 023-49 | LSA number flags 91-100, grey | 10 pcs |
| 0637 0 007-47 | LSA number flags 10-200, grey | 1 pc |
| 0637 0 008-02 | LSA number flags 10-400, grey | 1 pc |
| 0637 0 008-03 | LSA number flags 10-600, grey | 1 pc |

For marking the modules of Series 2 and TERMINATOR.



| Order No. | Cover strip 2/10 | Pack |
|---------------|-------------------------------|--------|
| 6089 2 218-00 | LSA cover strip 2/10, grey | 10 pcs |
| 6089 2 218-04 | LSA cover strip 2/10, transp. | 10 pcs |
| 6089 2 218-10 | LSA cover strip 2/10, red | 10 pcs |
| 6089 2 218-11 | LSA cover strip 2/10, white | 10 pcs |
| 6089 2 218-12 | LSA cover strip 2/10, green | 10 pcs |
| 6089 2 218-13 | LSA cover strip 2/10, yellow | 10 pcs |
| 6089 2 218-15 | LSA cover strip 2/10, black | 10 pcs |
| 6089 2 218-16 | LSA-cover strip 2/10, brown | 10 pcs |
| 6089 2 218-17 | LSA-cover strip 2/10, blue | 10 pcs |

For LSA-PLUS/PROFIL modules 2/10, designed to restrict unauthorised access to cable wires or jumper wires (breaks when removed) and for twist protection in combination with one-way safety version plugs.



| Order No. | Cover strip 2/8 | Pack |
|---------------|------------------------------|--------|
| 6036 2 022-00 | LSA cover strip 2/8, grey | 10 pcs |
| 6036 2 022-01 | LSA cover strip 2/8, transp. | 10 pcs |
| 6036 2 022-02 | LSA cover strip 2/8, red | 10 pcs |
| 6036 2 022-03 | LSA cover strip 2/8, white | 10 pcs |
| 6036 2 022-04 | LSA cover strip 2/8, green | 10 pcs |
| 6036 2 022-05 | LSA cover strip 2/8, yellow | 10 pcs |
| 6036 2 022-06 | LSA cover strip 2/8, black | 10 pcs |
| 6036 2 022-07 | LSA cover strip 2/8, blue | 10 pcs |
| 6036 2 022-08 | LSA cover strip 2/8, brown | 10 pcs |

For LSA-PLUS/PROFIL modules 2/8, designed to restrict unauthorised access to cable wires or jumper wires (breaks when removed) and for twist protection in combination with one-way safety function plugs.





LSA-marking caps, dummy- and disconnection plugs

| Order No. | Marking caps 2/1 | Pack |
|---------------|-----------------------------|---------|
| 6089 3 006-00 | LSA marking cap 2/1, red | 100 pcs |
| 6089 3 006-01 | LSA marking cap 2/1, white | 100 pcs |
| 6089 3 006-02 | LSA marking cap 2/1, green | 100 pcs |
| 6089 3 006-03 | LSA marking cap 2/1, yellow | 100 pcs |
| 6089 3 006-04 | LSA marking cap 2/1, grey | 100 pcs |
| 6089 3 006-05 | LSA-marking cap 2/1, black | 100 pcs |
| 6089 3 006-06 | LSA-marking cap 2/1, brown | 100 pcs |
| 6089 3 006-07 | LSA-marking cap 2/1, blue | 100 pcs |

For marking important connections (1 pair) in LSA-PLUS/PROFIL modules.



| Order No. | Dummy plug 2/1 with label area | Pack |
|---------------|--------------------------------|---------|
| 6417 3 105-00 | LSA dummy plug 2/1, BF, red | 100 pcs |
| 6417 3 105-01 | LSA dummy plug 2/1, BF, white | 100 pcs |
| 6417 3 105-02 | LSA dummy plug 2/1, BF, green | 100 pcs |
| 6417 3 105-03 | LSA dummy plug 2/1, BF, yellow | 100 pcs |
| 6417 3 105-04 | LSA dummy plug 2/1, BF, green | 100 pcs |
| 6417 3 105-05 | LSA-dummy plug 2/1, BF, black | 100 pcs |
| 6417 3 105-06 | LSA-dummy plug 2/1, BF, brown | 100 pcs |
| 6417 3 105-07 | LSA-dummy plug 2/1, BF, blue | 100 pcs |

With label area, for marking lines as well as preventing unwanted access to LSA-PLUS/PROFIL connection modules and to preventing disconnection in the case of disconnection modules



| Order No. | Dummy plug 2/1 with extraction hook | Pack |
|---------------|-------------------------------------|---------|
| 6089 3 056-00 | LSA dummy plug 2/1, AÖ, red | 100 pcs |
| 6089 3 056-01 | LSA dummy plug 2/1, AÖ, white | 100 pcs |
| 6089 3 056-02 | LSA dummy plug 2/1, AÖ, green | 100 pcs |
| 6089 3 056-03 | LSA dummy plug 2/1, AÖ, yellow | 100 pcs |
| 6089 3 056-04 | LSA-dummy plug 2/1, AÖ, green | 100 pcs |
| 6089 3 056-05 | LSA-dummy plug 2/1, AÖ, black | 100 pcs |
| 6089 3 056-06 | LSA-dummy plug 2/1, AÖ, brown | 100 pcs |
| 6089 3 056-07 | LSA-dummy plug 2/1, AÖ, blue | 100 pcs |

With extraction hook, for marking lines (1 pair) as well as preventing unwanted access to LSA-PLUS/PROFIL connection modules and to preventing disconnection in the case of disconnection modules



| Order No. | Disconnection plug 2/1 | Pack |
|---------------|------------------------------------|---------|
| 6089 3 055-00 | LSA disconnection plug 2/1, red | 100 pcs |
| 6089 3 055-01 | LSA disconnection plug 2/1, white | 100 pcs |
| 6089 3 055-02 | LSA disconnection plug 2/1, green | 100 pcs |
| 6089 3 055-03 | LSA disconnection plug 2/1, yellow | 100 pcs |
| 6089 3 055-04 | LSA disconnection plug 2/1, grey | 100 pcs |
| 6089 3 055-05 | LSA disconnection plug 2/1, black | 100 pcs |
| 6089 3 055-06 | LSA-disconnection plug 2/1, brown | 100 pcs |
| 6089 3 055-07 | LSA-disconnection plug 2/1, blue | 100 pcs |

For opening of connections (1 pair) in LSA-PLUS/PROFIL disconnection modules.





Accessories LSA-Series 2

LSA disconnection plugs, adapters

| Order No. | Disconnection plug 2/10 | Pack |
|---------------|---------------------------------|------|
| 6418 1 810-00 | LSA disconnection plug 2/101 pc | |

For opening of connections (10 pairs) in LSA-PLUS/PROFIL disconnection module.

| Order No. | Disconnection plug 2/10 | Pack |
|---------------|----------------------------|------|
| 6418 1 811-00 | LSA disconnection plug 2/8 | 1 pc |

For opening of connections (8 pairs) in LSA-PLUS/PROFIL disconnection module.

| Order No. | Changeover adapter 2/1 | Pack |
|---------------|-----------------------------------|------|
| 6089 2 093-00 | LSA changeover adapter 2/1, blank | 1 pc |

For interruption-free switching of installation wiring on LSA-LUS/PROFIL connection and disconnection modules.

| Order No. | Disconnection adapter 2/1 | Pack |
|---------------|-------------------------------|------|
| 6089 2 098-00 | LSA disconnection adapter 2/1 | 1 pc |

For LSA-PLUS/PROFIL disconnection modules, disconnects the jumpered line and taps the wire from one side.

| Order No. | Changeover adapter 2/10 | Pack |
|---------------|------------------------------------|------|
| 6089 2 081-01 | LSA changeover adapter 2/10, blank | 1 pc |

For interruption-free switching of installation wiring on LSA-LUS/PROFIL connection and disconnection modules.

| Order No. | Disconnection adapter 2/10 | Pack |
|---------------|---|------|
| 6089 2 099-00 | LSA disconnection adapter 2/10, printed 1-0 | 1 pc |

For LSA-PLUS/PROFIL disconnection modules, disconnects the jumpered line and taps the wire from one side.





LSA-plug kits

| Order No. | Plug kit 1x2-pole for connection modules | Pack |
|---------------|--|------|
| 6624 2 201-04 | LSA plug kit 2/1, printed, grey | 1 pc |
| 6624 2 201-00 | LSA plug kit 2/1, blank, grey | 1 pc |

Plug kit for user assembly. For parallel connection.
For use with LSA-PLUS/PROFIL connection and disconnection modules.



| Order No. | Extension kit for plugs for connection module | Pack |
|---------------|---|------|
| 6089 3 060-00 | LSA plug input contacts 2/1 | 1 pc |
| 6089 3 063-00 | LSA plug blade contacts 2/1 | 1 pc |
| 6418 2 016-00 | LSA plug centre section 2/- | 1 pc |

2-pole extension kit for LSA plug 2/1. For use with LSA-PLUS/PROFIL connection and disconnection modules.



| Order No. | 2x2-pole plug for disconnection and switching modules | Pack |
|---------------|---|------|
| 6624 2 401-04 | LSA plug kit 2/2, printed, white | 1 pc |
| 6624 2 401-00 | LSA plug kit 2/2, blank, white | 1 pc |
| 6660 2 401-00 | LSA plug kit 2/2, white, one way safety version | 1 pc |

Plug kit for user assembly, with disconnect function (not to be used for LSA-PLUS/PROFIL connection modules)



| Order No. | Extension kit for plug for disconnection and switching modules | Pack |
|---------------|--|------|
| 6418 2 005-00 | LSA plug insert 2/2 | 1 pc |
| 6418 2 016-00 | LSA plug centre section 2/- | 1 pc |

4-pole extension kit for LSA-plug 2/2. For use with LSA-PLUS/PROFIL connection and switching modules.



| Order No. | Assembled and connected plugs | Pack |
|---------------|---|------|
| 6624 2 121-02 | LSA short circuit plug 2/2 | 1 pc |
| 6624 2 121-04 | LSA cross over plug 2/2 | 1 pc |
| 6624 2 131-01 | LSA attenuation plug 2/2 with 01-dB attenuation | 1 pc |

4-pole LSA plug 2/2 for LSA-disconnection and switching modules.
Short circuit plug: a with b and a' with b' connected.
Cross over plug twists a with b: a with b' and b with a' connected.
Attenuation plugs are available from 01 dB up to 15 dB (6624 2 131-15).





Accessories LSA-Series 2

LSA plugs, plug kits for 3-wire circuits

| Order No. | Disconnection plugs 3-pole | Pack |
|---------------|------------------------------------|---------|
| 6417 3 100-00 | LSA disconnection plug 2/3, red | 100 pcs |
| 6417 3 100-01 | LSA disconnection plug 2/3, white | 100 pcs |
| 6417 3 100-02 | LSA disconnection plug 2/3, green | 100 pcs |
| 6417 3 100-03 | LSA disconnection plug 2/3, yellow | 100 pcs |
| 6417 3 100-04 | LSA disconnection plug 2/3, green | 100 pcs |
| 6417 3 100-05 | LSA-disconnection plug 2/3, black | 100 pcs |
| 6417 3 100-06 | LSA-disconnection plug 2/3, brown | 100 pcs |
| 6417 3 100-07 | LSA-disconnection plug 2/3, blue | 100 pcs |

For opening connections in LSA-PLUS-disconnection modules 2/6x3 and LSA-PLUS-disconnection modules 2/8x3 abs.



| Order No. | Dummy plugs 3-pole | Pack |
|---------------|----------------------------|---------|
| 6417 3 101-00 | LSA dummy plug 2/3, red | 100 pcs |
| 6417 3 101-01 | LSA dummy plug 2/3, white | 100 pcs |
| 6417 3 101-02 | LSA dummy plug 2/3, green | 100 pcs |
| 6417 3 101-03 | LSA dummy plug 2/3, yellow | 100 pcs |
| 6417 3 101-04 | LSA dummy plug 2/3, grey | 100 pcs |
| 6417 3 101-05 | LSA-dummy plug 2/3, black | 100 pcs |
| 6417 3 101-06 | LSA-dummy plug 2/3, brown | 100 pcs |
| 6417 3 101-07 | LSA-dummy plug 2/3, blue | 100 pcs |

For marking of wires and to prevent access to LSA-PLUS-disconnection modules 2/6x3 and LSA-PLUS-disconnection modules 2/8x3 abs.



| Order No. | 2x3-pole plugs for disconnection and switching modulen | Pack |
|---------------|--|------|
| 6626 2 601-00 | LSA plug kit 2/6, grey/grey | 1 pc |
| 6626 2 601-50 | LSA plug kit 2/6, grey/red | 1 pc |

6-pole (2x3) plug kit for LSA disconnection and switching modules, for jumpering or for testing in both sides.



| Order No. | 2x3-pole plug kit for disconnection and switching modules, one-way safety version | Pack |
|---------------|---|------|
| 6661 2 601-00 | LSA plug kit 2/6, grey/grey, one-way safety version | 1 pc |
| 6661 2 601-50 | LSA plug kit 2/6, grey/red, one-way safety version | 1 pc |

6-pole (2x3) plug kit for LSA disconnection and switching modules, for jumpering or for testing in both sides. One-way safety version.

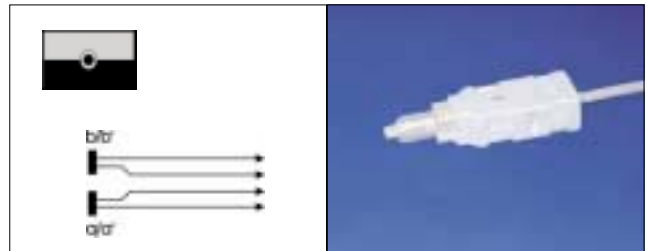




LSA-cords for connection modules

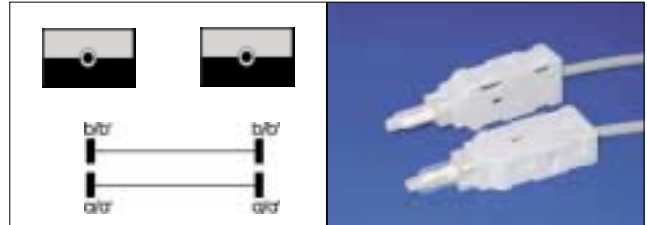
| Order No. | LSA cords 2-pole for configuration | Pack |
|---------------|------------------------------------|------|
| 6624 2 071-01 | LSA cord-2/1/2 open, 2p, 1.0 m | 1 pc |
| 6624 2 071-00 | LSA cord-2/1/2 open, 2p, 1.5 m | 1 pc |
| 6624 2 071-02 | LSA cord-2/1/2 open, 2p, 2.0 m | 1 pc |
| 6624 2 071-03 | LSA cord-2/1/2 open, 2p, 3.0 m | 1 pc |
| 6624 2 071-04 | LSA cord-2/1/2 open, 2p, 4.0 m | 1 pc |

Connection cord 2/1, 2-pole, open at one end, with one LSA-PLUS plug 2/1.



| Order No. | LSA to LSA patch cord, 2-pole | Pack |
|---------------|---------------------------------|------|
| 6624 2 081-01 | LSA cord-2/1/2-2/1/2, 2p, 1.0 m | 1 pc |
| 6624 2 081-00 | LSA cord-2/1/2-2/1/2, 2p, 1.5 m | 1 pc |
| 6624 2 081-02 | LSA cord-2/1/2-2/1/2, 2p, 2.0 m | 1 pc |
| 6624 2 081-03 | LSA cord-2/1/2-2/1/2, 2p, 3.0 m | 1 pc |
| 6624 2 081-04 | LSA cord-2/1/2-2/1/2, 2p, 4.0 m | 1 pc |

Connection cord 2/1, 2-pole, fitted with two LSA-PLUS plugs 2/1 for parallel connection.



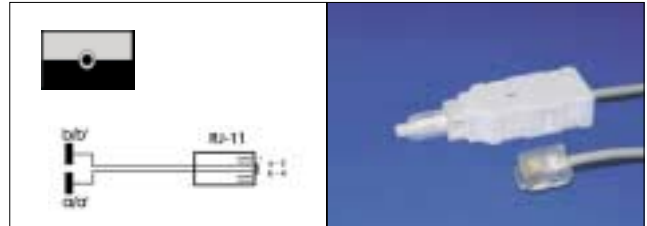
| Order No. | LSA to RJ45 patch cord, 2-pole | Pack |
|---------------|--------------------------------|------|
| 0637 0 008-54 | LSA cord-2/1/2-RJ45, 2p, 1.0 m | 1 pc |
| 0637 0 008-09 | LSA cord-2/1/2-RJ45, 2p, 1.5 m | 1 pc |
| 0637 0 008-55 | LSA cord-2/1/2-RJ45, 2p, 2.0 m | 1 pc |
| 0637 0 009-17 | LSA cord-2/1/2-RJ45, 2p, 3.0 m | 1 pc |
| 0637 0 009-10 | LSA cord-2/1/2-RJ45, 2p, 4.0 m | 1 pc |

Connection cord 2/1, 2-pole, fitted with one LSA-PLUS plug 2/1 and one RJ-45 plug for patchpanels.



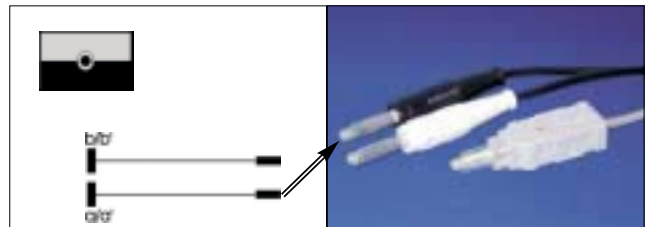
| Order No. | LSA to RJ11 patch cord, 2-pole | Pack |
|---------------|--------------------------------|------|
| 0637 0 008-08 | LSA cord-2/1/2-RJ11, 2p, 1.5 m | 1 pc |
| 0637 0 008-56 | LSA cord-2/1/2-RJ11, 2p, 3.0 m | 1 pc |
| 0637 0 008-57 | LSA cord-2/1/2-RJ11, 2p, 4.0 m | 1 pc |

Connection cord 2/1, 2-pole, fitted with one LSA-PLUS plug 2/1 and one RJ-11 plug for telephone patchpanels.



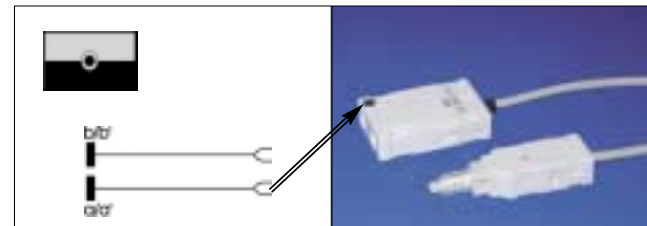
| Order No. | LSA test cord with 2 banana plugs | Pack |
|---------------|-----------------------------------|------|
| 6624 2 061-07 | LSA cord-2/1/2-2BS, 2p, 0.2 m | 1 pc |
| 6624 2 061-01 | LSA cord-2/1/2-2BS, 2p, 1.0 m | 1 pc |
| 6624 2 061-00 | LSA cord-2/1/2-2BS, 2p, 1.5 m | 1 pc |
| 6624 2 061-02 | LSA cord-2/1/2-2BS, 2p, 2.0 m | 1 pc |
| 6624 2 061-03 | LSA cord-2/1/2-2BS, 2p, 3.0 m | 1 pc |

Test cord 2/1, 2-pole, fitted with one LSA-PLUS plug 2/1 and two banana plugs.



| Order No. | LSA test cord with 2 couplings for banana plugs | Pack |
|---------------|---|------|
| 6624 2 040-09 | LSA cord-2/1/2-2KP, 2p, 0.2 m | 1 pc |
| 6624 2 040-01 | LSA cord-2/1/2-2KP, 2p, 1.0 m | 1 pc |
| 6624 2 040-00 | LSA cord-2/1/2-2KP, 2p, 1.5 m | 1 pc |
| 6624 2 040-02 | LSA cord-2/1/2-2KP, 2p, 2.0 m | 1 pc |
| 6624 2 040-03 | LSA cord-2/1/2-2KP, 2p, 3.0 m | 1 pc |

Test cord 2/1, 2-pole, fitted with one LSA-PLUS plug 2/1 and one coupling for two banana plugs.



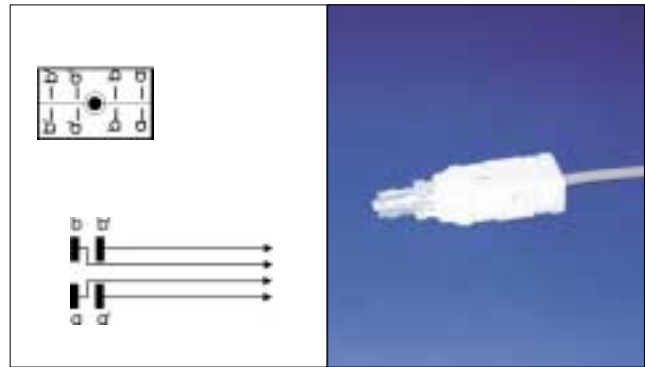


Accessories LSA-Series 2

LSA-cord for disconnection and switching modules

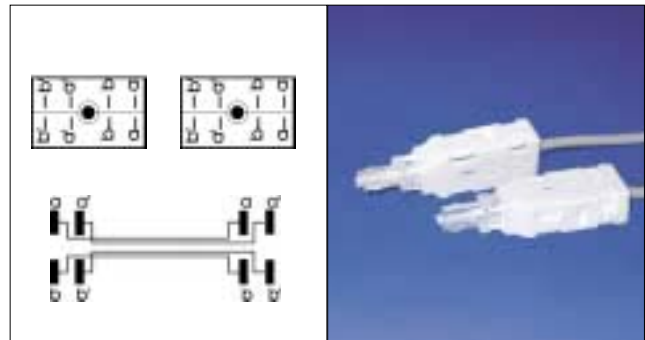
| Order No. | LSA cord, 4-pole, for configuration | Pack |
|---------------|-------------------------------------|------|
| 6624 2 701-01 | LSA cord-2/2/4-open, 4p, 1.0 m | 1 pc |
| 6624 2 701-00 | LSA cord-2/2/4-open, 4p, 1.5 m | 1 pc |
| 6624 2 701-02 | LSA cord-2/2/4-open, 4p, 2.0 m | 1 pc |
| 6624 2 701-03 | LSA cord-2/2/4-open, 4p, 3.0 m | 1 pc |
| 6624 2 701-04 | LSA-cord-2/2/4-open, 4p, 4,0 m | 1 pc |

Connection cord 2/2, 4-pole, open at one end, with one LSA-PLUS plug 2/2.



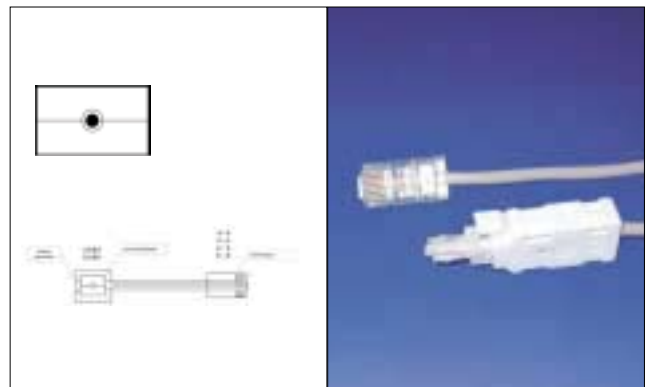
| Order No. | LSA patch cord, 4-pole | Pack |
|---------------|---------------------------------|------|
| 6624 2 801-01 | LSA cord-2/2/4-2/2/4, 4p, 1.0 m | 1 pc |
| 6624 2 801-00 | LSA cord-2/2/4-2/2/4, 4p, 1.5 m | 1 pc |
| 6624 2 801-02 | LSA cord-2/2/4-2/2/4, 4p, 2.0 m | 1 pc |
| 6624 2 801-03 | LSA cord-2/2/4-2/2/4, 4p, 3.0 m | 1 pc |
| 6624 2 801-04 | LSA cord-2/2/4-2/2/4, 4p, 4.0 m | 1 pc |

Connection cord 2/2, 4-pole with two LSA-PLUS plugs 2/2.



| Order No. | LSA to RJ45 patch cord, 4-pole one-way safety version | Pack |
|---------------|---|------|
| 0637 0 007-34 | LSA cord-2/2/4-RJ45, 4p, 1.5 m Type A | 1 pc |
| 0637 0 009-06 | LSA cord-2/2/4-RJ45, 4p, 2.0 m Type A | 1 pc |
| 0637 0 008-44 | LSA cord-2/2/4-RJ45, 4p, 3.0 m Type A | 1 pc |
| 0637 0 008-92 | LSA cord-2/2/4-RJ45, 4p, 4.0 m Type A | 1 pc |

Connection cord 2/2, 4-pole with one one-way safety LSA-PLUS plug 2/2 for disconnection and switching modules and one RJ45-plug for patchpanels.



| Order No. | LSA to RJ11 patch cord, 4-pole one-way safety version | Pack |
|---------------|---|------|
| 0637 0 009-41 | LSA cord-2/2/4-RJ11, 4p, 1.0 m | 1 pc |
| 0637 0 009-42 | LSA cord-2/2/4-RJ11, 4p, 1.5 m | 1 pc |
| 0637 0 009-21 | LSA cord-2/2/4-RJ11, 4p, 2.0 m | 1 pc |
| 0637 0 009-22 | LSA cord-2/2/4-RJ11, 4p, 4.0 m | 1 pc |

Connection cord 2/1, 2-pole with one one-way safety LSA-PLUS plug 2/1 for connection modules and one RJ11-plug for telephone patchpanels.



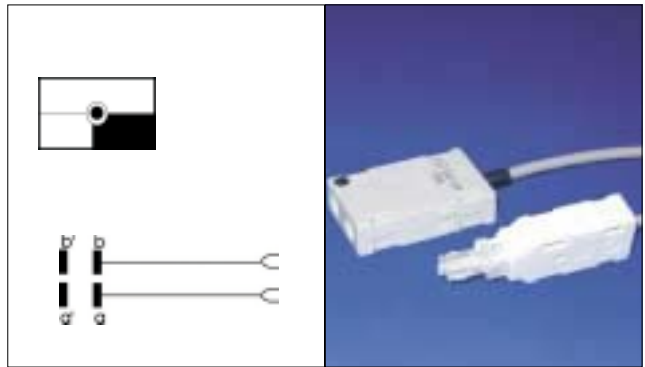
Further types and lengths on request.



LSA-cord for disconnection and switching modules

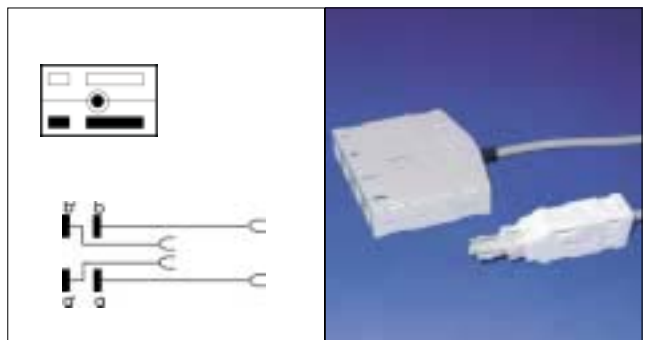
| Order No. | LSA test cord with two banana plugs | Pack |
|---------------|-------------------------------------|------|
| 6624 2 320-09 | LSA cord-2/2/4-2 KP, 2p, 0.12 m | 1 pc |
| 6624 2 320-01 | LSA cord-2/2/4-2 KP, 2p, 1.0 m | 1 pc |
| 6624 2 320-00 | LSA cord-2/2/4-2 KP, 2p, 1.5 m | 1 pc |
| 6624 2 320-02 | LSA cord-2/2/4-2 KP, 2p, 2.0 m | 1 pc |
| 6624 2 320-04 | LSA cord-2/2/4-2 KP, 2p, 4.0 m | 1 pc |

Test cord 2/2, 2-pole, fitted with one LSA-PLUS plug 2/2 and one coupling for two banana plugs.



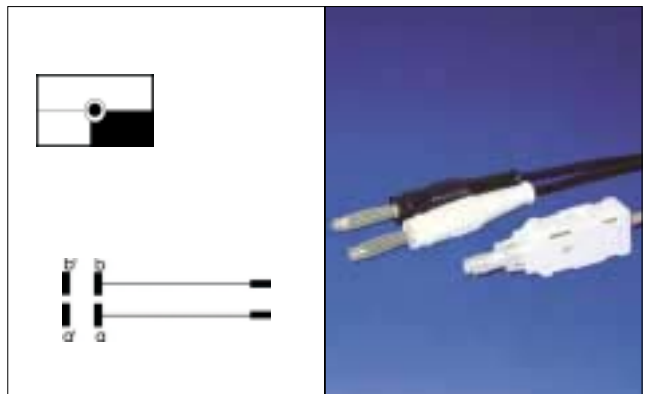
| Order No. | LSA test cord with coupling for 4 banana plugs | Pack |
|---------------|--|------|
| 6624 2 340-09 | LSA cord-2/2/4-4 KP, 4p, 0.2 m | 1 pc |
| 6624 2 340-01 | LSA cord-2/2/4-4 KP, 4p, 1.0 m | 1 pc |
| 6624 2 340-00 | LSA cord-2/2/4-4 KP, 4p, 1.5 m | 1 pc |
| 6624 2 340-02 | LSA cord-2/2/4-4 KP, 4p, 2.0 m | 1 pc |
| 6624 2 340-03 | LSA cord-2/2/4-4 KP, 4p, 3.0 m | 1 pc |
| 6624 2 340-04 | LSA cord-2/2/4-4 KP, 4p, 4.0 m | 1 pc |

Test cord 2/2, 4-pole, fitted with one LSA-PLUS plug 2/2 and one coupling for four banana plugs.



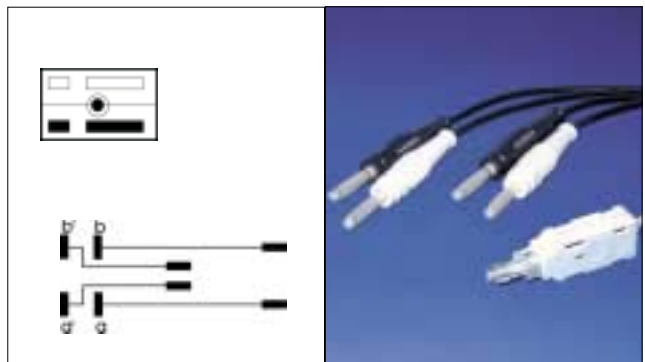
| Order No. | LSA test cord with 2 banana plugs | Pack |
|---------------|-----------------------------------|------|
| 6624 2 521-07 | LSA cord-2/2/4-2 BS, 2p, 0.05 m | 1 pc |
| 6624 2 521-01 | LSA cord-2/2/4-2 BS, 2p, 1.0 m | 1 pc |
| 6624 2 521-00 | LSA cord-2/2/4-2 BS, 2p, 1.5 m | 1 pc |
| 6624 2 521-02 | LSA cord-2/2/4-2 BS, 2p, 2.0 m | 1 pc |
| 6624 2 521-03 | LSA cord-2/2/4-2 BS, 2p, 3.0 m | 1 pc |
| 6624 2 521-04 | LSA cord-2/2/4-2 BS, 2p, 4.0 m | 1 pc |

Test cord 2/2, 2-pole, fitted with one LSA-PLUS plug 2/2 and 2 banana plugs.



| Order No. | LSA test cord with 4 banana plugs | Pack |
|---------------|-----------------------------------|------|
| 6624 2 541-07 | LSA cord-2/2/4-4 BS, 4p, 0.05 m | 1 pc |
| 6624 2 541-01 | LSA cord-2/2/4-4 BS, 4p, 1.0 m | 1 pc |
| 6624 2 541-00 | LSA cord-2/2/4-4 BS, 4p, 1.5 m | 1 pc |
| 6624 2 541-02 | LSA cord-2/2/4-4 BS, 4p, 2.0 m | 1 pc |
| 6624 2 541-03 | LSA cord-2/2/4-4 BS, 4p, 3.0 m | 1 pc |
| 6624 2 541-04 | LSA cord-2/2/4-4 BS, 4p, 4.0 m | 1 pc |

Test cord 2/2, 2-pole, fitted with one LSA-PLUS plug 2/2 and 4 banana plugs.



Further types and lengths on request.

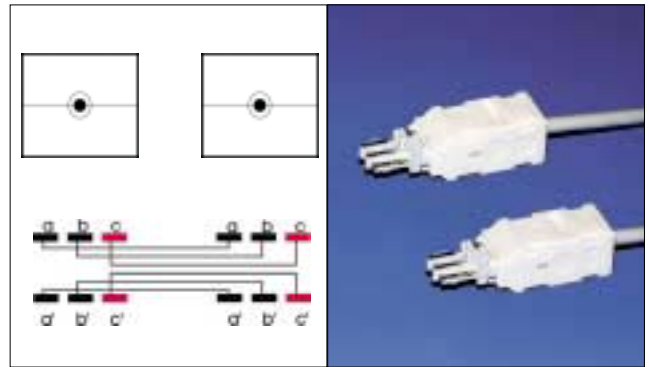


Accessories LSA-Series 2

LSA-cords for disconnection and switching modules for 3 wire circuit

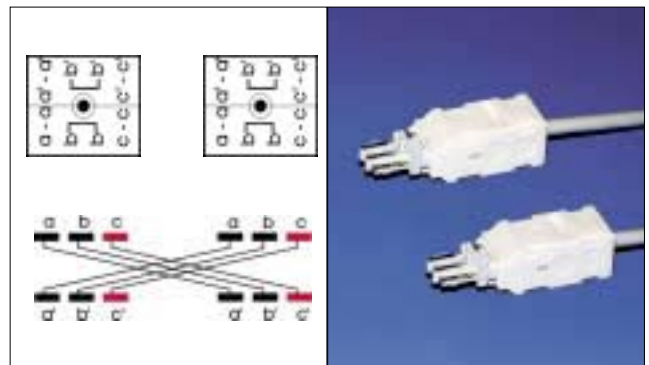
| Order No. | LSA patch cord 6-pole | Pack |
|---------------|---------------------------------|------|
| 6626 2 901-01 | LSA cord-2/6/6-2/6/6, 6p, 1.0 m | 1 pc |
| 6626 2 901-00 | LSA cord-2/6/6-2/6/6, 6p, 1.5 m | 1 pc |
| 6626 2 901-02 | LSA cord-2/6/6-2/6/6, 6p, 2.0 m | 1 pc |
| 6626 2 901-03 | LSA cord-2/6/6-2/6/6, 6p, 3.0 m | 1 pc |
| 6626 2 901-04 | LSA cord-2/6/6-2/6/6, 6p, 4.0 m | 1 pc |

Connection cord 2/6, 6-pole, fitted with two LSA-PLUS plug 2/6 for LSA-PLUS switching and disconnection for 3 wire circuits.



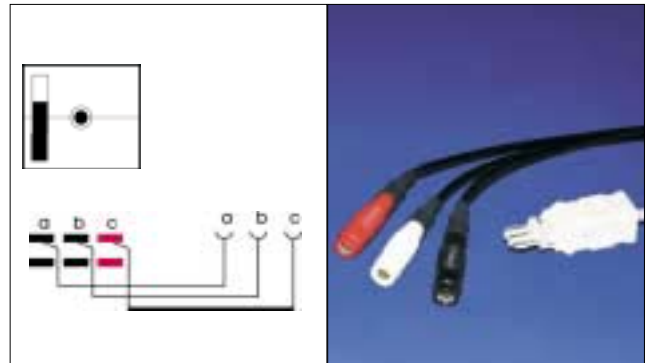
| Order No. | LSA patch cord 6-pole, crossed version | Pack |
|---------------|---|------|
| 6451 2 002-01 | LSA cord-2/6/6-2/6/6, 6p, 1.0 m abc-a'b'c' | 1 pc |
| 6451 2 002-02 | LSA cord-2/6/6-2/6/6, 6p, 2.0 m abc-a'b'c' | 1 pc |
| 6451 2 002-03 | LSA cord-2/6/6-2/6/6, 6p, 3.0 m abc-a'b'c' | 1 pc |

Connection cord 2/6, 6-pole, fitted with two LSA-PLUS plug 2/6 for LSA-PLUS switching and disconnection modules for 3 wire circuits. Crossed version.



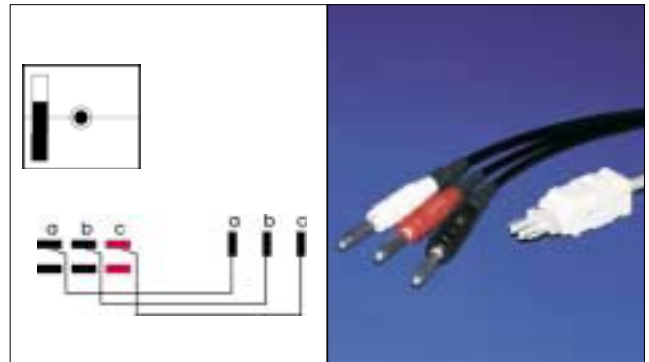
| Order No. | LSA test cord 3-pole with 3 coupling for banana plugs | Pack |
|---------------|---|------|
| 6626 2 331-01 | LSA cord-2/6/6-3KP, 2p, 1.0 m | 1 pc |
| 6626 2 331-00 | LSA cord-2/6/6-3KP, 2p, 1.5 m | 1 pc |
| 6626 2 331-02 | LSA cord-2/6/6-3KP, 2p, 2.0 m | 1 pc |
| 6626 2 331-03 | LSA cord-2/6/6-3KP, 2p, 3.0 m | 1 pc |

Test cord 2/6, 3-pole, fitted with one LSA-PLUS plug 2/6 for LSA-PLUS switching and disconnection modules for 3 wire circuits and three couplings for banana plugs.



| Order No. | LSA test cord 3-pole with 3 banana plugs | Pack |
|---------------|--|------|
| 6626 2 531-01 | LSA cord-2/6/6-3BS, 2p, 1.0 m | 1 pc |
| 6626 2 531-00 | LSA cord-2/6/6-3BS, 2p, 1.5 m | 1 pc |
| 6626 2 531-02 | LSA cord-2/6/6-3BS, 2p, 2.0 m | 1 pc |
| 6626 2 531-03 | LSA cord-2/6/6-3BS, 2p, 3.0 m | 1 pc |

Test cord 2/6, 3-pole, fitted with one LSA-PLUS plug 2/6 for LSA-PLUS switching and disconnection modules for 3 wire circuits and three banana plugs.



Further types and lengths on request.



LSA-PROFIL-System 2/8xabs for PROFIL-rods

| Order No. | LSA-PROFIL disconnection module 2/8xabs for shielded cables | Pack |
|---------------|---|--------|
| 7015 1 008-11 | LSA-PROFIL disconnection module 2/8abs with earthed shield contacts | 1 pc |
| 7015 1 001-11 | LSA-PROFIL disconnection module 2/8abs with not earthed shield contacts | 10 pcs |

LSA-PROFIL disconnection module for 8 shielded pairs (e.g. for 2Mbit-lines)



| Order No. | LSA cable support 2/8abs | Pack |
|---------------|---|------|
| 7015 1 009-20 | LSA cable support 2/8abs, universal for 1 up to 8 cords (with the same diameter, up to 6mm) | 1 pc |
| 7015 1 009-00 | LSA cable support 2/8abs, 1x12mm for 1 cord 8DA | 1 pc |
| 7015 1 009-10 | LSA cable support 2/8abs, 8x3mm for 8 cord 1DA | 1 pc |

Cable support for cable fixing and cable shield contact.



| Order No. | LSA wire guides 2/8abs | Pack |
|---------------|------------------------------|------|
| 7015 1 004-50 | LSA wire guide 2/8abs, links | 1 pc |
| 7015 1 005-50 | LSA wire guide 2/8abs, right | 1 pc |

Wire guide 2/8 x 3, left for jumpering to the left
Wire guide 2/8 x 3, right for jumpering to the right.



| Order No. | Hinged label holder 2/8abs | Pack |
|---------------|--------------------------------|------|
| 7015 1 003-50 | LSA hinged label holder 2/8abs | 1 pc |

Can be attached to LSA-PROFIL modules 2/8abs with transparent cover and paper label, blank.

| | | |
|-----------------|---|---------|
| 7015 1 003-50BS | LSA label-2/8abs-A4/32x, Pack=100bents, white | 100 pcs |
|-----------------|---|---------|

A4 sheets, perforated. 32 paper labels on one A4-bent.
For laser and inkjet printers. Enables an EDP supported inscription of hinged label holders (7015 1 003-50).



Accessories

LSA-PROFIL®-2/8abs

LSA-PLUS/PROFIL

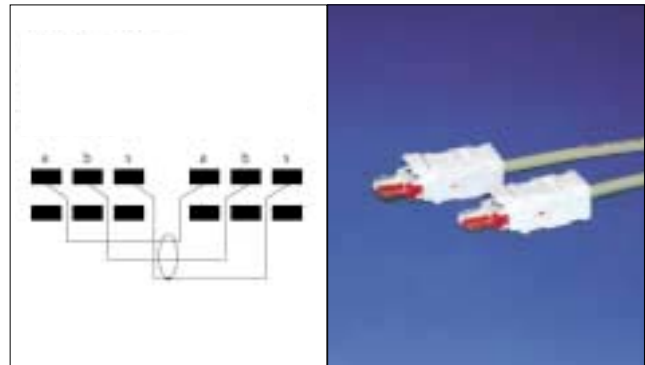


1.5

LSA cord for disconnection modules 2/8xabs

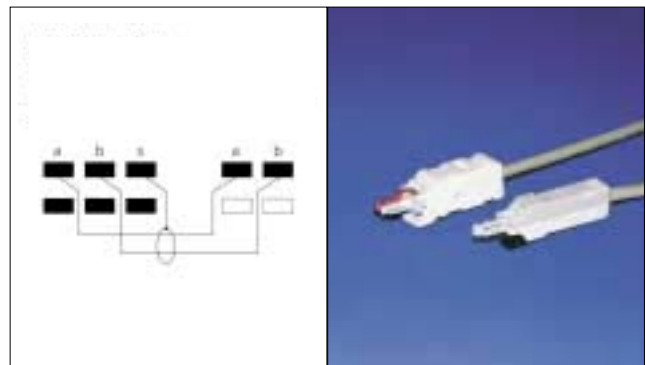
| Order No. | LSA patch cords, 120 Ohm shielded | Pack |
|---------------|--|------|
| 6661 2 811-01 | LSA cord-2/6/3-2/6/3, 3pole, 120 Ohm, 1.0 m | 1 pc |
| 6661 2 811-03 | LSA cord-2/6/3-2/6/3, 3pole, 120 Ohm, 3.0 m | 1 pc |
| 6661 2 811-xx | LSA cord-2/6/3-2/6/3, 3pole, 120 Ohm, xx.0 m | 1 pc |

Patch cord 2/6, 3-pole, shielded, fitted with two LSA-PLUS plug 2/6 and only one side connected.



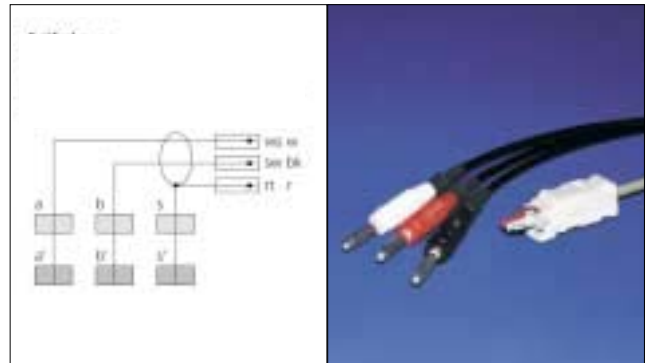
| Order No. | LSA patch cord, 120 Ohm one side shielded | Pack |
|---------------|--|------|
| 6661 2 711-01 | LSA cord-2/6/3-2/2/2, 2pole, 120 Ohm, 1.0 m | 1 pc |
| 6661 2 711-03 | LSA cord-2/6/3-2/2/2, 2pole, 120 Ohm, 3.0 m | 1 pc |
| 6661 2 711-xx | LSA cord-2/6/3-2/2/2, 2pole, 120 Ohm, xx.0 m | 1 pc |

Test cord 2/6, 2-pole, shielded, fitted with one LSA-PLUS plug 2/6 for modules series 2/8abs and one LSA-PLUS plug 2/2 for modules series 2.



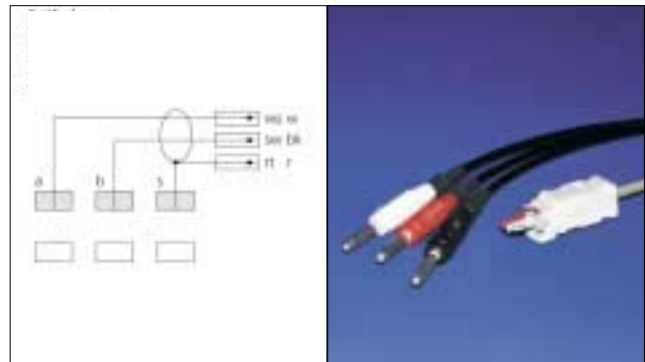
| Order No. | LSA patch cord, 120 Ohm, with banana plugs, for parallel connecting, shielded | Pack |
|---------------|---|------|
| 6661 2 551-01 | LSA cord-2/6/6-3BS, 3pole, 120 Ohm, 1.0 m | 1 pc |
| 6661 2 551-03 | LSA cord-2/6/6-3BS, 3pole, 120 Ohm, 3.0 m | 1 pc |
| 6661 2 551-xx | LSA cord-2/6/6-3BS, 3pole, 120 Ohm, xx.0 m | 1 pc |

Test cord 2/6, 6-pole, shielded, fitted with one LSA-PLUS plug 2/6 and three banana plugs. For parallel connecting, testing, monitoring.



| Order No. | LSA test cord, 120 Ohm, with banana plug, 3-pole, shielded | Pack |
|---------------|--|------|
| 6661 2 541-01 | LSA cord-2/6/3-3BS, 3pole, 120 Ohm, 1.0 m | 1 pc |
| 6661 2 541-03 | LSA cord-2/6/3-3BS, 3pole, 120 Ohm, 3.0 m | 1 pc |
| 6661 2 541-xx | LSA cord-2/6/3-3BS, 3pole, 120 Ohm, xx.0 m | 1 pc |

Test cord 2/6, 3-pole, shielded, fitted with one LSA-PLUS plug 2/6 and three banana plugs.



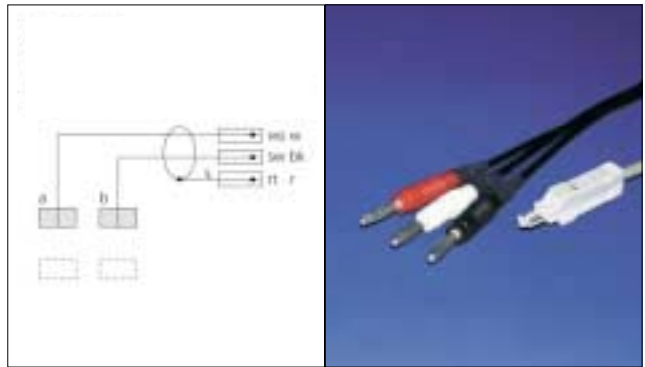
Further types and lengths on request.



LSA-cords for disconnection modules 2/8xabs

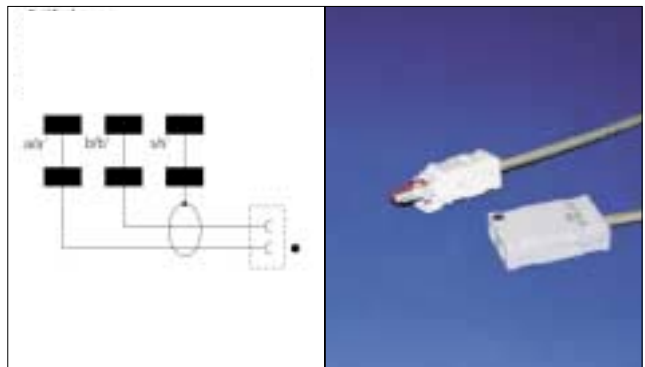
| Order No. | LSA test cord, 120 Ohm, with banana plugs, shielded | Pack |
|---------------|---|------|
| 6697 2 025-01 | LSA cord-2/2-3BS, 2pole, 120 Ohm, 1.0 m | 1 pc |
| 6697 2 025-03 | LSA cord-2/2-3BS, 2pole, 120 Ohm, 3.0 m | 1 pc |
| 6697 2 025-xx | LSA cord-2/2-3BS, 2pole, 120 Ohm, xx.0 m | 1 pc |

Test cord 2/2, 2-pole, shielded, fitted with one LSA-PLUS plug 2/2 and three banana plugs. (Shielding connected to banana plug)



| Order No. | LSA test cord, 120 Ohm, with coupling for banana plugs, for parallel connecting, shielded | Pack |
|---------------|---|------|
| 6661 2 340-01 | LSA cord-2/6/6-2KP, 2pole, 120 Ohm, 1.0 m | 1 pc |
| 6661 2 340-03 | LSA cord-2/6/6-2KP, 2pole, 120 Ohm, 3.0 m | 1 pc |
| 6661 2 340-xx | LSA cord-2/6/6-3KP, 2pole, 120 Ohm, xx.0 m | 1 pc |

Test cord 2/6, 3-pole, shielded, fitted with one LSA-PLUS plug 2/6 and two banana plugs for parallel connecting and testing. (Shielding connected to LSA-PLUS-plug 2/6)



Further types and lengths on request.



LSA-PLUS®-Series 7

LSA-PLUS®-Series 7 for mounting plate

| Order No. | Connection module for 10 pairs wire Ø 0.4 - 0.6 mm | Pack |
|---------------|---|--------|
| 6698 1 003-00 | LSA-PLUS connection module 7/06F | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.6 mm. Fixing on mounting plates with Ø 4 mm screws, fixing dimension 95 mm.



| Order No. | Connection module with magazine holder for 10 pairs for 10 pairs, conductor Ø 0.4 - 0.6 mm | Pack |
|---------------|--|--------|
| 6698 1 007-00 | LSA-PLUS-connection module 7/06F-GDT | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.6 mm.
LSA connection module with magazine holder.
Fixing on mounting plates with Ø 4 mm screws, fixing dimension 95 mm.



| Order No. | Connection module for 10 pairs conductor Ø 0.4 - 0.8 mm | Pack |
|---------------|--|--------|
| 6698 1 004-00 | LSA-PLUS connection module 7/08F | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.8 mm. Fixing on mounting plates with Ø 4 mm screws, fixing dimension 95 mm.



| Order No. | Connection module with magazine holder for 10 pairs for 10 pairs, conductor Ø 0.4 - 0.8 mm | Pack |
|---------------|--|--------|
| 6698 1 008-00 | LSA-PLUS connection module 7/08F-GDT | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.8 mm.
LSA connection module with magazine holder.
Fixing on mounting plates with Ø 4 mm screws, fixing dimension 95 mm.



| Order No. | Distribution module for parallel connection of 2x5 pairs, conductor Ø 0.4 - 0.6 mm | Pack |
|---------------|--|--------|
| 6698 2 062-01 | LSA-PLUS distribution module 7/06F | 10 pcs |

For parallel connection of 2 x 5 pairs.
Conductor diameter 0.4 up to 0.6 mm.
Fixing on mounting plates with Ø 4 mm screws, fixing dimension 95 mm.





LSA-PLUS®-Series 7 for LSA-PROFIL-rods

| Order No. | Connection module for 10 pairs wire Ø 0.4 - 0.6 mm | Pack |
|---------------|---|--------|
| 6698 1 005-00 | LSA-PROFIL connection module 7/06 | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.6 mm. For LSA-PROFIL rod frames. Distance between centre of profile bars (rods) 95 mm (LSA-PROFIL Series 2/10).



| Order Nr | Connection module with magazine holder for 10 pairs for 10 pairs, conductor Ø 0.4 - 0.6 mm | Pack |
|---------------|--|--------|
| 6698 1 009-00 | LSA-PROFIL connection module 7/06-GDT | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.6 mm. LSA connection module with magazine holder. For LSA-PROFIL rod frames. Distance between centre of profile bars (rods) 95 mm (LSA-PROFIL Series 2/10).



| Order Nr. | Connection module for 10 pairs conductor Ø 0.4 - 0.8 mm | Pack |
|---------------|--|--------|
| 6698 1 006-00 | LSA-PROFIL connection module 7/08 | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.8 mm. For LSA-PROFIL rod frames. Distance between centre of profile bars (rods) 95 mm (LSA-PROFIL Series 2/10).



| Order Nr . | Connection module with magazine holder for 10 pairs for 10 pairs, conductor Ø 0.4 - 0.8 mm | Pack |
|---------------|--|--------|
| 6698 1 010-00 | LSA-PROFIL connection module 7/08-GDT | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.8 mm. LSA-connection module with magazine holder. For LSA-PROFIL rod frames. Distance between centre of profile bars (rods) 95 mm (LSA-PROFIL Series 2/10).



| Order Nr. | Module for parallel connection of 2x5 pairs, conductor Ø 0.4 - 0.6 mm | Pack |
|---------------|---|--------|
| 6698 2 062-00 | LSA-PROFIL distribution module 7/06 | 10 pcs |

For parallel connection of 2 x 5 pairs. Conductor diameter 0.4 bis 0.6 mm. For LSA-PROFIL rod frames. Distance between centre of profile bars (rods) 95 mm (LSA-PROFIL-Series 2/10).





Accessories LSA-Series 7

LSA-PLUS®-Series 7-Accessories

| Order No. | Disconnection module for 10 pairs conductor Ø 0.4 - 0.6 mm | Pack |
|---------------|--|--------|
| 6698 1 027-00 | LSA-PROFIL disconnection module 7/06 | 10 pcs |

For 10 pairs with conductor diameters from 0.4 up to 0.6 mm. For LSA-PROFIL-rod frames. Distance between centre of profile bars (rods) 95 mm (LSA-PROFIL Series 2/10).



| Order No. | Disconnection module for 10 pairs conductor-Ø 0.4 - 0.8 mm | Pack |
|---------------|--|--------|
| 6698 1 027-10 | LSA-PROFIL disconnection module 7/08 | 10 pcs |

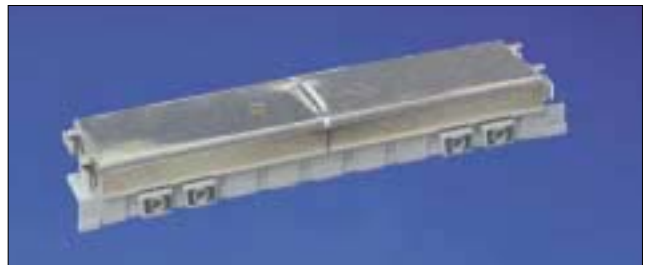
For 10 pairs with conductor diameters from 0.4 up to 0.6 mm. For LSA-PROFIL rod frames. Distance between centre of profile bars (rods) 95 mm (LSA-PROFIL Series 2/10).



| Order No. | Magazine for overvoltage arrestors 8x8 | Pack |
|---------------|---|--------|
| 6698 1 010-00 | LSA-GDT magazine for 20 pcs overvoltage arrestors 8x8 | 10 pcs |

For use with LSA magazine holder 7/10.

| | | |
|---------------|--------------------------|--------|
| 6698 1 011-00 | LSA magazine holder 7/10 | 10 pcs |
|---------------|--------------------------|--------|



| Order No. | Hinged label holder | Pack |
|---------------|-------------------------------|------|
| 6698 1 014-00 | LSA hinged label holder 7/10. | 1 pc |

Can be attached to LSA modules series 7 with transparent cover and paper label, printed.



| Order No. | Paper label | Pack |
|-----------------|------------------------------|---------|
| 6698 1 014-00BS | LSA label-7/10-A4/96x, white | 100 pcs |

A4 sheets, perforated. 96 paper labels on one A4-bent.
For laser and inkjet printers. Enables an EDP supported inscription of hinged label holders (6698 1 014-00).



LSA-PLUS®-Series 7-Accessories

| Order No. | Testprint | Pack |
|---------------|--------------------|------|
| 6625 2 012-00 | LSA testprint 7/10 | 1 pc |

PCB print for 10 pairs, for testing



| Order No. | LSA test cord with coupling for 2 banana plugs | Pack |
|---------------|--|------|
| 6625 2 011-00 | LSA cord 7/2/4-2KP, 2p, 0.2 m | 1 pc |

Test cord 7/2, 2-pole, with one LSA-PLUS plug 7/2 and coupling for two banana plugs. Length: 0.2m



| Order No. | Test cord for disconnection module with coupling for banana plugs | Pack |
|---------------|---|------|
| 6625 2 034-00 | LSA cord 7/2/4-4KP, 4p, 0.2 m | 1 pc |

Test cord 7/2, 2-pole, with one LSA-PLUS plug 7/2 and coupling for four banana plugs. Length: 0.2m



| Order No. | LSA to LSA patch cord, 2-pole | Pack |
|---------------|-------------------------------|------|
| 0637 0 009-86 | LSA cord 7/2/4-7/2/4, 2p, 4m | 1 pc |

Connections are made between a-a', and b-b'

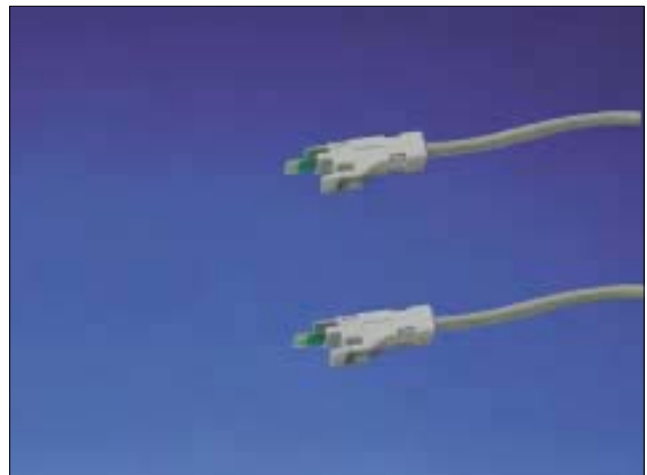
| Order No. | LSA to LSA patch cord, 4-pole | Pack |
|---------------|-------------------------------|------|
| 0637 0 009-85 | LSA cord 7/2/4-7/2/4, 4p, 4m | 1 pc |

| Order No. | LSA to RJ45 patch cord, 2-pole | Pack |
|---------------|--------------------------------|------|
| 0637 0 010-01 | LSA cord 7/2/4-7/2/4, 2p, 3m | 1 pc |

Connections are between: a - 5, and b - 4

| Order No. | LSA to RJ45 patch cord, 4-pole | Pack |
|---------------|--------------------------------|------|
| 0637 0 010-00 | LSA cord 7/2/4-RJ45, 4p, 3m | 1 pc |

Connections are between a - 5, b - 4, a' - 3, and b' - 6



| Order No. | LSA cord 2-pole for configuration | Pack |
|---------------|-----------------------------------|------|
| 0637 0 010-13 | LSA cord 7/2/4-open, 2p, 4m | 1 pc |

| Order No. | LSA cord 2-pole for configuration | Pack |
|---------------|-----------------------------------|------|
| 0637 0 010-25 | LSA-cord 7/2/4-open, 4p, 1m | 1 pc |
| 0637 0 009-87 | LSA-cord 7/2/4-open, 4p, 4 m | 1 pc |





LSA-PLUS®-NT for PROFIL-rods

| Order No. | Connection module for 10 pairs | Pack |
|---------------|--|--------|
| 7014 1 600-01 | LSA-PROFIL connection module NT/10. printed 2x 1 - 0 | 10 pcs |

For LSA-PROFIL rod frames. Distance between centre of profile bars 95 mm (LSA-PROFIL Series 2/10). Pitch: 17.5mm, higher capacity compared to LSA-Series 2 (300 pairs LSA-2/10 = 400 pairs LSA-NT/10).
For conductor diameters from 0.35 up to 0.8 mm.



| Order No. | Disconnection module for 10 pairs | Pack |
|---------------|---|--------|
| 7014 1 601-01 | LSA-PROFIL disconnection module NT/10. printed 2x 1 - 0 | 10 pcs |

For LSA-PROFIL rod frames. Distance between centre of profile bars 95 mm (LSA-PROFIL Series 2/10). Pitch: 17.5mm, higher capacity compared to LSA-Series 2 (300 pairs LSA-2/10 = 400 pairs LSA-NT/10).
For conductor diameters from 0.35 up to 0.8 mm.



| Order No. | Switching module for 10 pairs | Pack |
|---------------|---|--------|
| 7014 1 603-00 | LSA-PROFIL switching module NT/10. printed 2x 1 - 0 | 10 pcs |

For LSA-PROFIL rod frames. Distance between centre of profile bars 95 mm (LSA-PROFIL Series 2/10). Pitch: 17.5mm, higher capacity compared to LSA-Series 2 (300 pairs LSA-2/10 = 400 pairs LSA-NT/10).
For conductor diameters from 0.35 up to 0.8 mm.
Designed for use in overvoltage protection panels. The line is disconnected when protection is not installed.



| Order No. | LSA-PROFIL mounting aid NT/10 | Pack |
|---------------|-------------------------------|------|
| 6690 3 031-10 | LSA-PROFIL mounting aid NT/10 | 1 pc |

Mounting aid for 10 pairs NT-PROFIL modules NT/10.





LSA-PLUS®-NT for PROFIL-rods

| Order No. | Connection module for 8 pairs | Pack |
|---------------|--|--------|
| 7014 1 500-00 | LSA-PROFIL connection module NT/8 printed 2x 1 - 8 | 10 pcs |

For LSA-PROFIL rod frames. Distance between centre of profile bars 75 mm (LSA-PROFIL Series 2/8). Pitch: 17.5mm, higher capacity compared to LSA Series 2 (240 pairs LSA-2/8 = 320 pairs LSA-NT/8).
For conductor diameters from 0.35 up to 0.8 mm.



| Order No. | Disconnection module for 8 pairs | Pack |
|---------------|---|--------|
| 7014 1 501-00 | LSA-PROFIL disconnection module NT/8 printed 2x 1 - 8 | 10 pcs |

For LSA-PROFIL rod frames. Distance between centre of profile bars 75 mm (LSA-PROFIL Series 2/8). Pitch: 17.5mm, higher capacity compared to LSA Series 2 (240 pairs LSA-2/8 = 320 pairs LSA-NT/8).
For conductor diameters from 0.35 up to 0.8 mm.





LSA-PLUS®-NT for backmount frame

| Order No. | Connection module for 10 pairs | Pack |
|---------------|--|--------|
| 7014 1 003-01 | LSA-PLUS connection module NT/10. printed 2x 1 - 0 | 10 pcs |

Connection module for 10 pairs with angular arrangement of the contact rows for distributor systems ensuring enhanced access security. The mounting pitch is only 17.5mm. Suitable for installation on backmount frame NT. Small jumper guides left and right. For conductor diameters from 0.35 up to 0.8 mm.



| Order No. | Disconnection module for 10 pairs | Pack |
|---------------|---|--------|
| 7014 1 004-01 | LSA-PLUS disconnection module NT/10. printed 2x 1-0 | 10 pcs |

Disconnection module for 10 pairs with angular arrangement of the contact rows for distributor systems ensuring enhanced access security. The mounting pitch is only 17.5mm. Suitable for installation on backmount frame NT. For conductor diameters from 0.35 up to 0.8 mm.



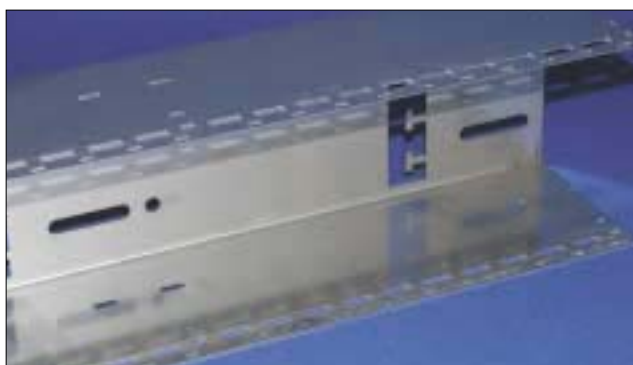
| Order No. | Earth module for 20 wires | Pack |
|---------------|-----------------------------|------|
| 7014 2 035-00 | LSA-PLUS earth module NT/10 | 1 pc |

For 20 earth wires, can be assembled on backmount frame NT. Without printing. Small jumper guides left and right.



| Order No. | NT backmount frame | Pack |
|---------------|---|------|
| 7005 3 051-50 | LSA backmount frame NT/10 pitch (RM) 17.5mm, for 50 modules | 1 pc |

Backmount frame for 50 LSA-PLUS-NT-10 pairs modules.





LSA-PLUS®-NT modules with screw terminal for screening conductor

| Order No. | Disconnection module 8 pairs+ screening conductor for backmount frames | Pack |
|---------------|--|--------|
| 7014 1 041-00 | LSA-PLUS disconnection module NT/s8s printed s, 1 - 8, s | 10 pcs |

Disconnection module for cable with 8 pairs and shielding. Jumpering with shielded one pair cables. The mounting pitch is only 17.5mm. Suitable for installation on backmount frame NT.

For conductor diameters from 0.35 up to 0.8 mm. Printed S, 1, 2, 3, ..., 8, S.



| Order No. | Screw terminal for screening conductor | Pack |
|---------------|---|------|
| 7014 2 041-00 | LSA-PLUS-NT earth contact | 1 pc |

Screw terminal for screening conductor, can be plugged in all LSA-NT modules.





Accessories LSA-PLUS®-NT

LSA-PLUS®-NT-plugs, adapter, label holder

| Order No. | Hinged label holder NT/10 | Pack |
|---------------|--|-------|
| 7014 2 007-00 | LSA label holder NT/10 hinged | 1 pc |
| 7014 2 032-00 | LSA label holder NT/8 hinged | 1 pc |
| 70142007-00BS | LSA-label NT/10A4/51x Pack=100sheets,wt | 1 Set |

Hinged label holder can be attached to LSA-NT modules.
With transparent cover, blank paper label.
A4 paper sheet, perforated. 51 paper labels on one A4-bent.
For laser and inkjet printers.



| Order No. | Module label holder NT/10 | Pack |
|---------------|----------------------------------|------|
| 7014 2 006-00 | LSA label holder NT/10 module | 1 pc |

With magazine for small parts, paper label and transparent cover.



| Order No. | Disconnection plug | Pack |
|---------------|---|---------|
| 7014 1 012-00 | LSA Disconnection plug NT/1pair, red | 100 pcs |

For opening connections in LSA-NT disconnection modules.



| Order No. | Marking caps | Pack |
|---------------|---------------------------|---------|
| 6196 3 042-00 | LSA marking caps 1/1, red | 100 pcs |

For marking important connections.

| Order No. | Disconnection adapter 1pair | Pack |
|---------------|--|--------|
| 7014 1 043-00 | LSA disconnection adapter NT, 1pair | 10 pcs |

Disconnection adapter for LSA-NT disconnection modules.
Disconnects the jumpered line and taps the wire from one side.



| Order No. | Changeover adapter, 1pair | Pack |
|---------------|----------------------------------|--------|
| 7014 1 044-00 | LSA changeover adapter NT, 1pair | 10 pcs |

Changeover for LSA-NT connection, disconnection modules.
For interruption-free switching of installation wiring.





LSA-PLUS®-NT-overvoltage protection, dust cover, number flags

| Order No. | LSA-NT number flags | Pack |
|---------------|-------------------------|------|
| 7014 2 038-00 | LSA-NT number flags 1-0 | 1 pc |

Number flags are used in order to quickly count and clearly identify LSA-PLUS/PROFIL modules for 8 or 10 pairs. Number flags can be inserted into the recesses on the left and right of the module. Number flags are not included in the delivery of NT modules.



| Order No. | LSA-NT dust cover | Pack |
|---------------|--|------|
| 7005 2 051-00 | LSA-NT dust cover, end piece for 10+1 LSA-NT modules | 1 pc |
| 7005 2 052-00 | LSA-NT dust cover, extension for 10+1 LSA-NT modules | 1 pc |

LSA-NT dust cover for 10+1 modules. The extension piece can be removed when no label holders are to be fitted (10+1 modules). Also suitable in conjunction with overvoltage protection. The end piece offers additional dust shield by means of covers on the top side.



| Order No. | Overvoltage protection | Pack |
|---------------|---|--------|
| 7019 1 003-01 | LSA-GDT magazine NT/10-180B1 230 V, 5A, 5 kA, T | 10 pcs |
| 7019 1 006-02 | LSA-GDT magazine NT/8-180B1 230 V, 5A, 5 kA, T | 10 pcs |

Equipped with 3-pole GDTs and fail-safe. The magazine is installed at the front of the NT module. For max. 180 V operating voltage.



| Order No. | Overvoltage protection plugs | Pack |
|---------------|------------------------------|--------|
| 7019 1 010-00 | ComProtect NTP OD180A1-NT/10 | 10 pcs |
| 7019 1 010-01 | ComProtect NTP OD180A1-NT/8 | 10 pcs |

Pack incl 1 pc earth bar.

| | |
|---|--------------------|
| Operating voltage (a/b-e) | 180 V |
| Impulse spark over voltage @ 1 kV/us (a/b-e) | <450 V |
| Nominal arrester surge current (100V/s) | 420 V ±20% |
| Nominal arrester alt. discharge current (50 Hz, 1s, 2x,a-e,b-e) | 5 A _{eff} |
| Nominal arrester surge current(50 Hz, 1s, 2x,a/b-e) | 5 kA |
| Max. Nominal current | 70 mA |
| Nominal resistance | 25 Ohm ±20% |
| Typ. operating frequency (-3dB, Z ₀ =600 Ohm) | 8 MHz |

| Order No. | Accessories | Pack |
|---------------|----------------------------|------|
| 7019 3 017-00 | ComProtect-earth bar-NT/10 | 1 pc |
| 7019 3 016-00 | ComProtect-earth bar-NT/8 | 1 pc |





Accessories LSA-PLUS®-NT

LSA-PLUS®-NT-cord

| Order No. | LSA-NT test cord for connection and disconnection modules with coupling for 2 banana plugs | Pack |
|---------------|--|------|
| 7014 2 003-00 | LSA cord NT/2-2KP, 0.2m | 1 pc |

Test cord NT/2, 2-pole, with one LSA-PLUS plug NT/2 and one coupling for two banana plugs.



| Order No. | LSA-NT test cord for disconnection and for switching modules, with coupling for 4 banana plugs | Pack |
|---------------|--|------|
| 7014 2 004-00 | LSA cord NT/4-4KP, 0.2m | 1 pc |

Test cord NT/2, 4-pole, with one LSA-PLUS plug NT/2 and one coupling for four banana plugs.



| Order No. | LSA-NT test cord for disconnection and switching modules, with banana plugs | Pack |
|---------------|---|------|
| 0637 0 010-38 | LSA cord NT/2/4-4BS, 4p, 2m | 1 pc |

Test cord NT/2, 4-pole, with one LSA-PLUS plug NT/2 and four banana plugs.



| Order No. | LSA-NT patch cord for disconnection and switching modules | Pack |
|---------------|---|------|
| 7014 2 045-05 | LSA cord NT/2/4-NT/2/4, 4p, 3m | 1 pc |
| 7014 2 045-09 | LSA cord NT/2/4-NT/2/4, 4p, 5m | 1 pc |
| 7014 2 045-11 | LSA cord NT/2/4-NT/2/4, 4p, 6m | 1 pc |
| 7014 2 045-15 | LSA cord NT/2/4-NT/2/4, 4p, 8m | 1 pc |

Test cord NT/2, 4-pole, with two LSA-PLUS plugs NT/2.



| Order No. | LSA-NT patch cord for disconnection modules | Pack |
|---------------|--|------|
| 7014 2 043-05 | LSA cord NT/2/4-NT/2/4, 2p, 3m aa' - aa', bb' - bb' | 1 pc |
| 7014 2 043-09 | LSA cord NT/2/4-NT/2/4, 2p, 5m aa' - aa', bb' - bb' | 1 pc |
| 7014 2 043-11 | LSA cord NT/2/4-NT/2/4, 2p, 6m aa' - aa', bb' - bb' | 1 pc |
| 7014 2 043-15 | LSA cord NT/2/4-NT/2/4, 2p, 8m aa' - aa', bb' - bb' | 1 pc |

Test cord NT/2, 4-pole, with two LSA-PLUS plugs NT/2.
Connections between a-a' and b-b'





LSA-PLUS®-NT-cord

| Order No. | LSA-NT cord for configuration for disconnection/switching modules | Pack |
|---------------|--|------|
| 0637 0 009-89 | LSA cord NT/2/4 open, 4p, 4m | 1 pc |

Connection cord NT/2, 4-pole, open at one end, with one LSA-plug NT/2.



| Order No. | LSA-NT cord for configuration for disconnection/switching modules | Pack |
|---------------|--|------|
| 0637 0 009-90 | LSA cord NT/2/4 open, 2p, 4m | 1 pc |

Connection cord NT/2, 4-pole, open at one end, with one LSA-plug NT/2.
Connections are between a-a' and b-b'.



| Order No. | LSA-NT patch cord for disconnection/switching modules | Pack |
|---------------|--|------|
| 7014 2 048-03 | LSA cord- T/2/4-NT/2/4,2p 3m a-a', b-b' | 1 pc |
| 7014 2 048-09 | LSA cord-NT/2/4-NT/2/4,2p 5m a-a', b-b' | 1 pc |

Connection cord NT/2, 2-pole, with two LSA plugs NT/2.
Connections are between a (first plug) and a' (second plug) and between
b (first plug) and b' (second plug).



| Order No. | LSA-NT patch cord for disconnection/switching modules | Pack |
|---------------|--|------|
| 7014 2 049-03 | LSA cord NT/2/4-NT/2/4,2p 2m a'-a', b'-b' | 1 pc |
| 7014 2 049-09 | LSA cord NT/2/4-NT/2/4,2p 5m a'-a', b'-b' | 1 pc |

Connection cord NT/2, 2-pole, with two LSA plugs NT/2.
Connections are made from a'/b' (first plug) to a'/b' (second plug).
a/b contacts are not connected





LSA-PLUS®-PCB-Series 2 for PCB, 8 pairs

| Order No. | Connection modules for 8 pairs of pins in row 1 | Pack |
|---------------|--|--------|
| 6693 1 003-00 | LSA-PLUS PCB connection module 2/8, pins in row 1 | 10 pcs |
| 6693 1 003-01 | LSA-PLUS PCB connection module 2/8, pins in row 1 with jumper guides | 10 pcs |

| Order No. | Disconnection modules for 8 pairs of pins in row 1 | Pack |
|---------------|--|--------|
| 6693 1 004-00 | LSA-PLUS PCB disconnection module 2/8, pins in row 1 | 10 pcs |
| 6693 1 004-01 | LSA-PLUS PCB disconnection module 2/8, pins in row 1, with jumper guides | 10 pcs |

| Order No. | Disconnection modules for 8 pairs of pins in row 1 and 2 | Pack |
|---------------|--|--------|
| 6693 1 004-04 | LSA-PLUS PCB disconnection module 2/8, pins in row 1 and 2 | 10 pcs |
| 6693 1 004-05 | LSA-PLUS-PCB-disconnection module 2/8, pins in row 1 and 2, with jumper guides | 10 pcs |

| Order No. | Switching module for 8 pairs of pins in row 1 and 2 | Pack |
|---------------|--|--------|
| 6693 1 005-04 | LSA-PLUS PCB switching module 2/8 Pins-1 | 10 pcs |
| 6693 1 005-05 | LSA-PLUS PCB switching module 2/8 Pins-1+2, with jumper guides | 10 pcs |

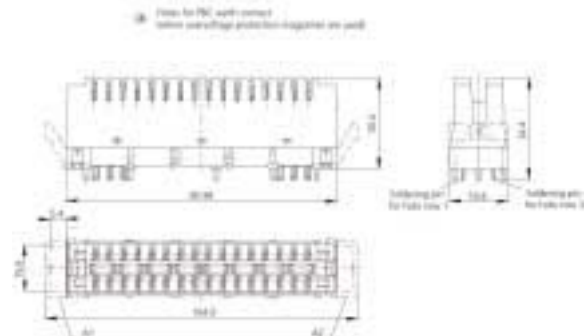
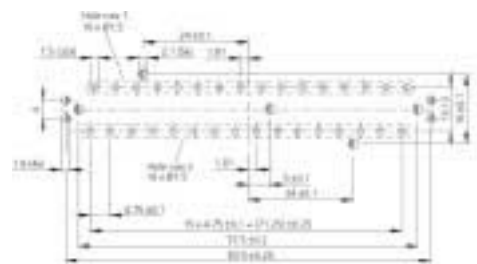
| Order No. | Earth contact | Pack |
|---------------|----------------------------|------|
| 6693 3 003-00 | LSA-PLUS PCB Earth contact | 1 pc |

The LSA-PLUS PCB earth contact for mounting on printed circuit boards is used in conjunction with overvoltage protection. (2pcs per module)

| Order No. | Unlatch wedge | Pack |
|---------------|----------------------------|------|
| 6467 1 009-00 | LSA-PLUS PCB unlatch wedge | 5 pc |

For easier dismantle of multiple modules (soldered to one PCB) from the LSA-PLUS backmount frame.

| | |
|--------------|--|
| Accessories: | Accessories for LSA-PLUS Series 2/8 (plugs, cords, overvoltage protection ...) |
|--------------|--|



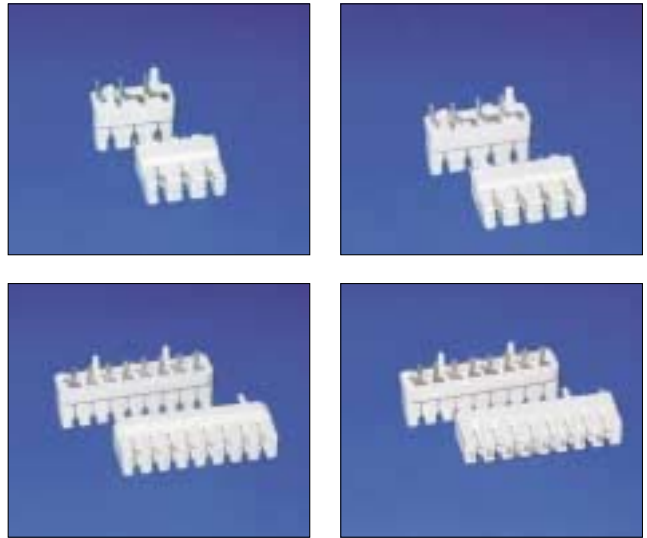
LSA-PLUS®-PCB-Series 4



1.9

LSA-PLUS® PCB-Series 4

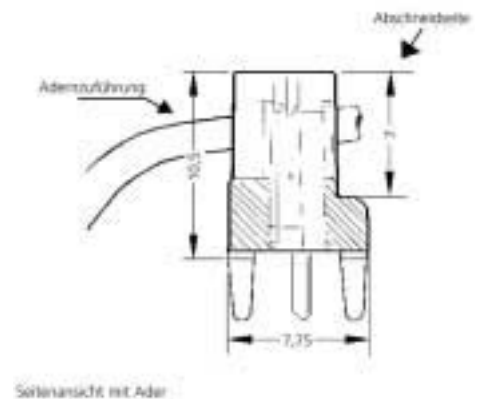
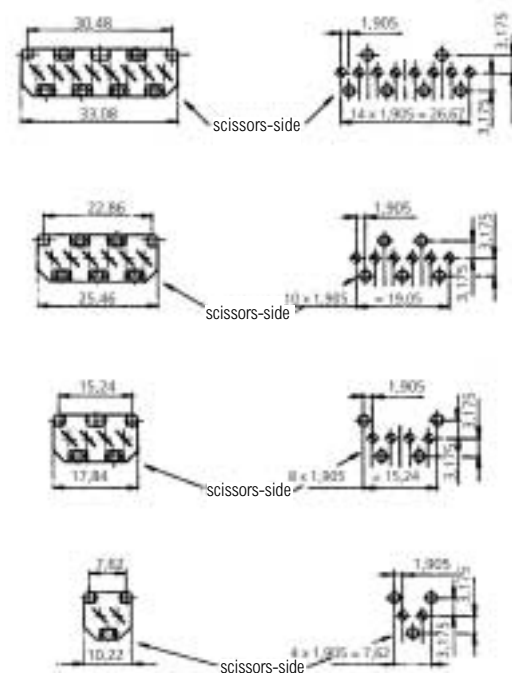
| Order No. | PCB connection module with 3.81 mm pitch | Pack |
|---------------|---|----------|
| 6048 1 007-02 | LSA-PLUS connection, module 4/2, 2-pole, RM 3.81 mm | 1000 pcs |
| 6048 1 007-04 | LSA-PLUS connection, module 4/4, 4-pole, RM 3.81 mm | 1000 pcs |
| 6048 1 007-06 | LSA-PLUS connection, module 4/6, 6-pole, RM 3.81 mm | 1000 pcs |
| 6048 1 007-08 | LSA-PLUS connection, module 4/8, 8-pole, RM 3.81 mm | 1000 pcs |
| 6048 1 008-08 | LSA-PLUS connection, module 4/8, 8-pole, RM 3.81 mm colour code: brown, green, orange | 1000 pcs |
| 6048 1 009-08 | LSA-PLUS connection, module 4/8, 8-pole, RM 3.81 mm colour code: bl, or, gn, bn | 1000 pcs |
| 6048 1 010-08 | LSA-PLUS-connection, module 4/8, 8-pole, RM 3.81 mm, printed 1-8 | 1000 pcs |



Footprint

Pins

Holes



Seitenansicht mit Ader

- ⊕ Bohrungen für Zapfen Ø 1,8 ±0,05 mm
- ⊕ Bohrungen für Lötpin Ø 1,2 ±0,1 mm



LSA-PLUS® PCB standard and high performance

| Order No. | PCB connection modules, standard | Pack |
|---------------|--|----------|
| 6048 1 080-00 | LSA-PLUS PCB connection module 4-pole | 1000 pcs |
| 6048 1 090-00 | LSA-PLUS PCB connection module 8-pole | 1000 pcs |

For soldering on printed circuit boards. For terminating CAT 3 and CAT 5 copper cables on LSA-PLUS contacts.

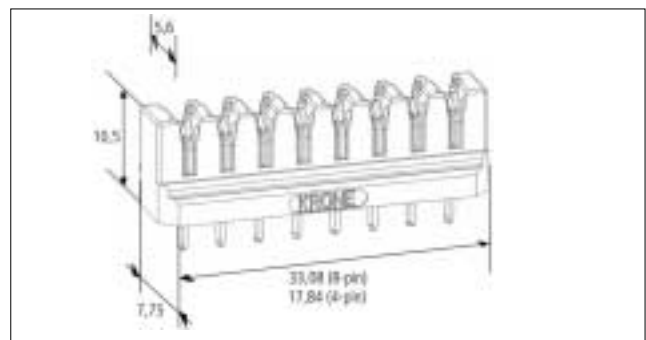
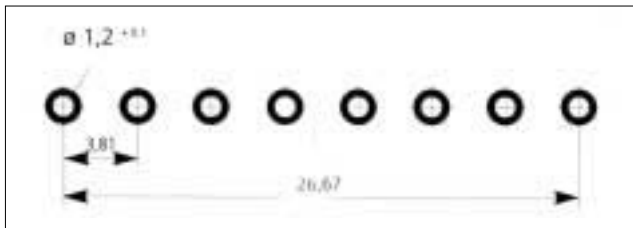
Wire diameter: 0.40...0.63mm,

External diameter: 0.70...1.70mm (PE)

(AWG 26...22)

Per LSA-PLUS-contact max. 1 wire

For boards with max. 1.6 mm.



| Order No. | PCB connection modules, high performance | Pack |
|---------------|---|----------|
| 6048 1 180-00 | LSA-PLUS PCB-HP connection module 4-pole | 1000 pcs |
| 6048 1 190-00 | LSA-PLUS PCB-HP connection module 8-pole | 1000 pcs |

For soldering on printed circuit boards. For terminating CAT 3, 5 and 6 copper cables on LSA-PLUS contacts

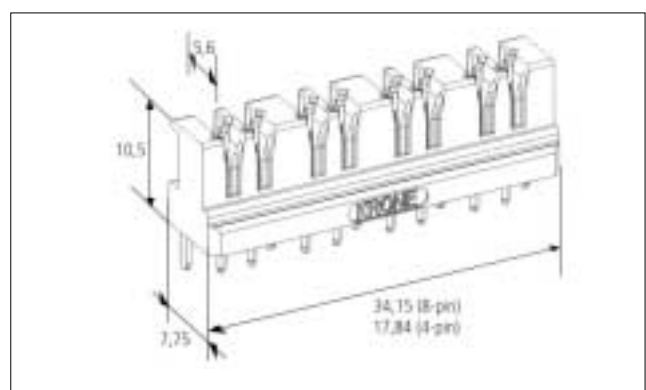
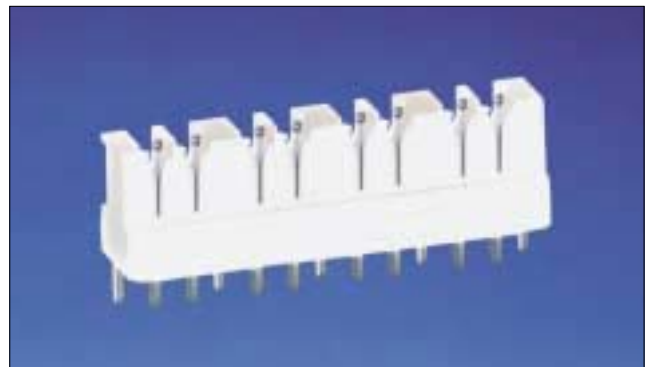
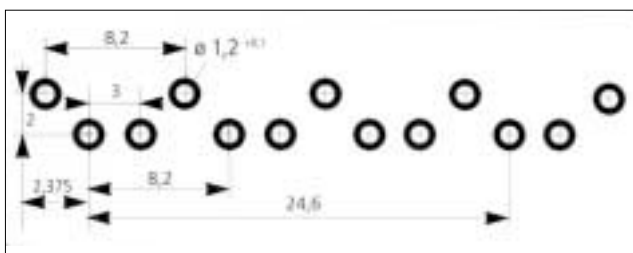
Wire diameter: 0.40...0.63mm,

External diameter: 0.70...1.70mm (PE)

(AWG 26...22)

Per LSA-PLUS-contact max. 1 wire

For boards with max. 1.6 mm.





LSA-Tools, Test Adapter

LSA-PLUS®-Tools

| Order No. | LSA-PLUS insertion tool S | Pack |
|---------------|---------------------------|------|
| 6417 2 055-01 | LSA-PLUS insertion tool S | 1 pc |

Standard tool for all data, information and telecommunication cabling systems. Can be used for all LSA-PLUS series as well as RJ 45 sockets and HIGHBAND.

For connecting conductor diameters of 0.35 ...0.9mm and wire diameters of 0.7.. 2.6mm (wire specifications depend on the connection system used). More Information on pages 1-4.



| Order No. | LSA-PLUS simple tool | Pack |
|---------------|----------------------|------|
| 6417 1 830-00 | LSA-PLUS simple tool | 1 pc |

For connecting wires without soldering, use of screws or stripping of wires. Without cutting device.



| Order No. | LSA-PLUS universal mounting aid | Pack |
|---------------|---|------|
| 6417 1 850-00 | LSA-PLUS universal mounting aid, for Series 2 and LSA-PLUS-NT | 1 pc |

This universal mounting aid ensures that cable wire reserve length is available at all times during installation work. Suitable for the following rack systems: Series 2 backmount frame for 10 pairs, LSA-PLUS NT backmount frame, LSA PROFIL rack systems for 8 and 10 pairs and for the following modules: LSA-PLUS/PROFIL 2/10, LSA PROFIL 2/8, LSA-PLUS/PROFIL NT/10 and LSA PROFIL NT/8.



| Order No. | Test adapter for Series 2 | Pack |
|---------------|---------------------------|------|
| 6417 2 002-00 | LSA test adapter 2/10 | 1 pc |
| 6418 2 018-01 | LSA test adapter 2/8 | 1 pc |

For LSA-PLUS connection and disconnection modules 2/8 and 2/10 for testing each cable wire against the other wires.



| | | |
|---------------|--|------|
| 6624 2 531-00 | LSA test adapter test cord, LSA 2 banana plugs | 1 pc |
|---------------|--|------|

For connection between test adapter and test equipment with a 4-pole plug, matching the test adapter, with two banana plugs. Length: 1.00m.

| | | |
|---------------|---------------------------|------|
| 6417 2 004-00 | LSA test adapter cord, 1m | 1 pc |
|---------------|---------------------------|------|

1 pole adapter cord for connection to the common test potential (with the backmount frames not being earthed or connected to each other), with 1 banana plug and 1 adapter plug. Length: 1.00m.

| | | |
|---------------|--|------|
| 6417 2 005-00 | LSA-test adapter-adapter connection cord, 0.1m | 1 pc |
|---------------|--|------|

For connecting test adapters to each other (with the Order No.s not being earthed or connected to each other), with 2 adapter plugs. Length: 0.10m.

