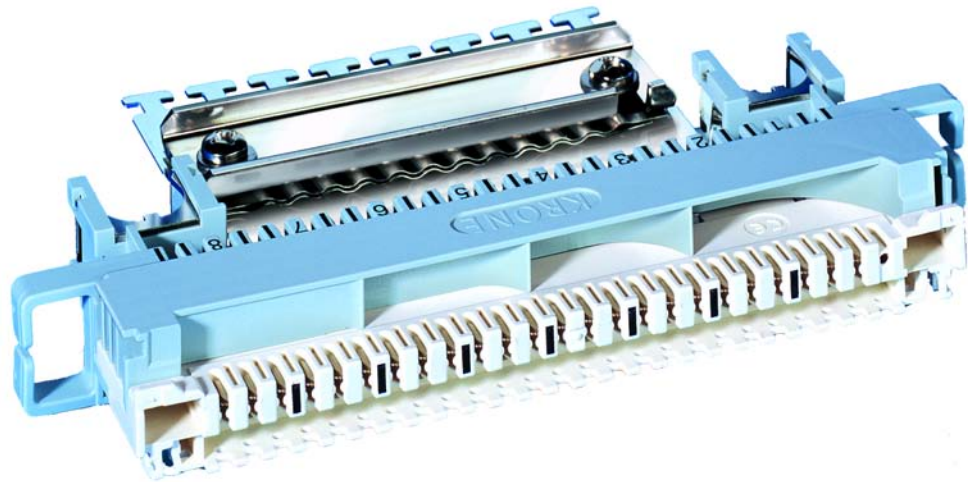


LSA PROFIL® NT

Disconnection Module for 2 Mbps Networks



Features and Benefits

- Disconnect module for the distribution of eight shielded pairs
- Applications include:
 - Internet backbone
 - GSM networks
 - UMTS networks
- Complies with ITU-T G.703 recommendations (physical/electrical characteristics of hierarchical digital interfaces)
- Category 6-rated NEXT performance
- Space-saving installation on a 17.5mm mounting grid
- Compatible with a wide-range of LSA-PLUS® NT accessories
 - One-pair disconnection plug
 - Patch cords
 - Test cords
 - Switch adapters
 - Disconnection adapters
 - Insertion tool
 - ComProtect® NT 1-pair protection (profile mounting module only)
- Accessories disconnect only the Line A/Line B contacts, while the shielding remains interconnected; plugs and cords are available to disconnect the shield, should that be required
- Ports are marked on a hinged label holder

The expansion of mobile communication networks, the introduction of third generation mobile phone systems (3G, UMTS) and the steady growth of IP networks, have created a demand for bandwidth in both access and transmission networks. This in turn causes the extension of existing hubs and the installation of new hubs.

The ADC KRONE PROFIL system provides a foundation for twisted pair, copper and fibre optic networks. For 2 Mbps copper pairs with impedance of 120 Ohms, ADC KRONE offers a complete range of connection and disconnection modules.

TECHNICAL DATA



LSA PROFIL® NT

Disconnection Module for 2 Mbps Networks

LSA-PLUS® and LSA PROFIL® NT 8-Pair Disconnection Modules (8 x abs)

These modules provide the maximum density at the signal distributor. The modules reliably connect 2 Mbps lines and provide Category 6 cross-talk (measured value: 57dB at 100 MHz; threshold value: 54dB), due to paired contacts with an additional single-ended contact in between. The outer contacts are completely shielded; even the outer pairs' stray field is considerably limited.

The flexible LSA PROFIL NT (8 x abs) installs in PROFIL 95 frames. Depending on the wire-routing plate used, the installation grid is either:

17.5mm

- If one wire-routing plate is omitted
- If one wire-routing plate is used to route four pairs on the right and another is used to route four pairs to the left

Or

19mm

- If all eight pairs are patched to one side

Routing plates can be stacked if a crossed installation of patch wires is necessary; in this case, the size of the grid increases by 8mm with every plate.

A cable take up is assembled on the back side of the plate. It is earthed via a built-in earthing clip and connects all shielded contacts. A contact to the cable shield can be established with the use of various cable clamps that are the same used by the eight-pair Series 2 blocks.

The LSA-PLUS NT (8 x abs) modules snap on to the NT holder that occupies a space-saving mounting grid of 17.5mm. This module is used in collocation distributors. Wire-routing plates can be omitted, or one that routes four-pairs right and four-pairs left can be used. Shielding and strain relief is done at the respective holder.

Specifications

Electrical data

Insulation resistance:	>50 GW
Termination resistance:	1 mW
Electrical strength:	2 kVeff
Surge voltage strength:	3.6 kV (8/20)
Operating voltage of basic insulation:	12 VeffTNV
Pollution degree:	II
Insulation group:	I
Transient overvoltage for B/S insulation:	1.5 kV
Ampacity:	2 A
Surge voltage ampacity:	5 kA

Environmental

In wet or dry rooms without condensation	
Environment class:	ETS 300 013-1-3 IEC 60721 part 3: 3K3/3Z1/3C2/3S1/3M2
Temperature range:	-40° C to +70° C/ 1K2

Mechanical data

LSA-PLUS contacts for plastic isolated, compact or twisted pair copper wire:	According to IEC 352, part 4
Conductor Specification (valid diameter)	
• single wire conductor connected with 1 wire per contact:	0.4mm to 0.63mm AWG 26 to AWG 22
• single wire conductor connected with 2 wires per contact (both with same diameter and type):	0.4mm to 0.3mm AWG 26 to AWG 22
Wire diameter:	
Outer diameter over PE or PVC insulation (larger diameters are possible with foamed insulation)	0.7mm to 1.6mm
Connection frequency:	>200 time

LSA PROFIL[®] NT

Disconnection Module for 2 Mbps Networks

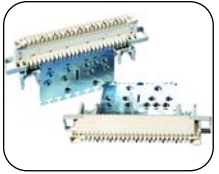
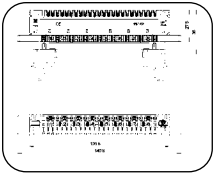


Materials (Flammability)

Plastics: PBT
Self-extinguishing according to UL94V-0

Transmission performance at 100 MHz


	Value	Category 6 (limit)
Insertion loss:	0.04dB	>0.2dB
NEXT:	57dB	>54dB
FEXT:	63dB	>43.1dB
Return loss:	26dB	>24dB
ITU-T consistent:	G.703	

Ordering Information

Description	Catalogue Number	
<p>LSA PROFIL[®] NT disconnection module (8 x abs) for 8 shielded 2-wire lines or 4 x E1 (4 x Rx/Tx) Installs in LSA PROFIL system frames (95mm rod distance) Delivered with precounted cable support. Matching cable clamps are ordered separately</p> <ul style="list-style-type: none"> • Colour: cream white • Dimensions in mm (H x W x D): 88,3 x 140,6 x 17,5 <p>Includes transparent PVC cover and paper label</p>	7014 2 300-00	
<p>LSA-PLUS[®] NT disconnection module (8 x abs) For 8 shielded 2-wire lines or 4 x E1 (4 x Rx/Tx) Installs on LSA-PLUS NT holders (ordered separately).</p> <ul style="list-style-type: none"> • Colour: cream white • Dimensions in mm (H x W x D): 61 x 140,6 x 17,5 <p>Includes transparent PVC cover and paper label</p>	7014 2 301-00	
<p>Wire routing plate, for 8-shielded pairs</p> <p>The plate is installed after the cable side of the module is connected. Mounting distance increased by 1.5mm (to 19mm) when this plate is used</p> <p>8-shielded pairs routed to left</p> <p>8-shielded pairs routed to right</p>	7014 2 302-01 7014 2 302-00	 
<p>Wire-routing plate for 4-pairs right, 4-pairs left</p> <p>The plate is installed after the cable side of the module is connected. Mounting distance is not increased; matches grid of commonly used holders in collocation applications</p>	7014 2 303-00	

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Ordering Information

Description	Catalogue Number	
<p>Hinged label holder</p> <ul style="list-style-type: none"> • Colour: bright grey <p>Label frame self-extinguishing according to UL94V-0</p> <ul style="list-style-type: none"> • Colour: transparent (labelling can occur on both sides) <p>Flammability class: UL94V-2</p>	<p>7014 2 305-00</p> <p>7014 2 305-10</p>	
<p>Patch cord</p> <p>120 Ohm, 2 poles shielded</p> <p>Connects Line A to Line A, Line B to Line B; cord separates a jumpered line and connects cable sides</p> <p>Length:</p> <p>2m</p> <p>3m</p> <p>5m</p>	<p>7014 2 310-03</p> <p>7014 2 310-05</p> <p>7014 2 310-09</p>	
<p>Test cord</p> <p>Single-sided connection; connects Line A and Line B, disconnects patch wire side. Shielded contact remains interconnected.</p> <p>Terminated to 4mm connectors</p> <p>Length: 0.2m</p> <p>Test cord</p> <p>Uninterrupted connection to Line A, Line B and shield.</p> <p>Terminated to 4mm connectors</p> <p>Length: 0.2m</p>	<p>7014 2 312-00</p> <p>7014 2 313-00</p>	
<p>Cable clamps</p> <p>Universal: accommodates range of cables up to 6mm.</p> <p>Clamp set includes: 2 corrugated plates (70mm x 20mm), pressure plate, two shims, 4 screws (2 each 5x9.5mm, 5x13mm)</p> <p>8 cables with 3mm diameter. Set includes: 4 double clamps, 4 screws (5x9.5mm)</p> <p>4 cables with 4mm diameter. Set includes: 2 double clamps, 2 screws (5x9.5mm)</p> <p>1 cable with 12mm diameter. Set includes: 1 clamp, 2 screws (5x9.5mm)</p> <p>1 clamp for cable up to 12mm diameter; 1 clamp establishes shield contact (7.5 to 8.5mm). Set includes 2 clamps (7mm/11mm) and 3 screws (5x9.5mm)</p>	<p>7014 2 306-00</p> <p>7014 2 306-01</p> <p>7014 2 306-02</p> <p>7014 2 306-03</p> <p>7014 2 306-04</p>	

TECHNICAL DATA



KRONE



Internet: www.adckrone.com

For a listing of our global sales office locations, please refer to our web site.

ADC GmbH, Beeskowdamm, 3-11, 14167 Berlin, Germany
Phone: +49 30 8453-0 Fax: +49 30 8453-1703

ADC Telecommunications, Inc., P.O. Box 1101, Minneapolis, Minnesota USA 55440-1101
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