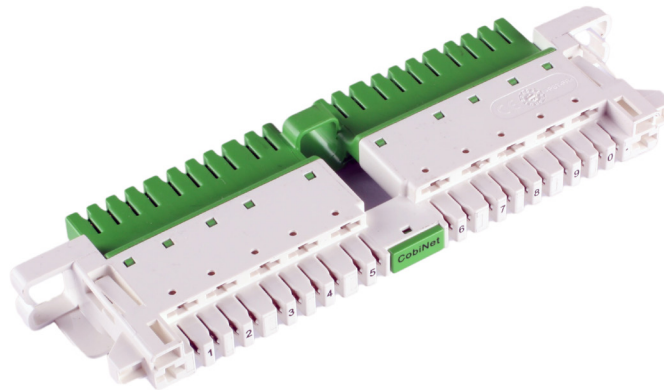


1.1 LSA Overview

Connection & Disconnection Modules



► LSA - HD



Application

- High packing density
- Ease of installation lead to time and cost savings
- LSA connection technology with contacts at a 45° angle
- Connection and disconnection modules are available
- Plug-in locations for overvoltage protection, splitters, test plugs etc.
- SGS-tested and approved by Deutsche Telekom AG
- Insulation displacement connection according to IEC 352-4 part 4 and DIN 41 611-6-C-EL-CL

Technical Specifications

Climate Area

For application in dry or damp rooms without condensation

- Temperature range during storage -40 to +90 °C (-40 to 194 °F)
- Temperature range during operation -40 to +80 °C (-40 to 176 °F)

Mechanical values for Housing

- Material.....PBT
- Flammability according to UL94.....self-extinguishing, V0
- Dimensions
 - Width.....129.7 mm
 - Height.....12.5 mm
 - Depth.....42.0 mm
- Weight.....44 g

Mechanical values for plastic insulated copper conductors

- Wire diameter
 - Connection with one solid wire 0.40 to 0.80 mm² AWG 26 to 20
 - Connection with two solid wires (same diameter and same type) 0.40 to 0.65 mm² AWG 26 to 22
 - Connection with one stranded wire, tin-plated 7x 0.12 to 0.32 mm² AWG 28 to 20
- Overall diameter (insulation PVC and PE) 0.70 to 1.60 mm
- Repeatability of the wire connecting
 - With strands or solid wires 0.40 to 0.65 mm 200x
 - With solid wires 0.80 mm 50x
- Contact material special brass, silver-plated 0.5 µm, in contact area ≥5 µm

1.1 LSA Overview

Connection & Disconnection Modules

Technical Specifications (continued)

Electrical values

The electrical values were collected after 4Pday storage in a constant climate environment at 40 °C (104 °F) and 93 % relative humidity.

- Insulation resistance $>5 \times 10^4 \text{ M}\Omega$
- Dielectric strength 2 kVrms
- Impulse strength (waveform 1.2/50 μs) 3.6 kV
- Permitted current carrying capacity (waveform 8/20 μs) of the LSA contact
- Wire diameter $\geq 0.6 \text{ mm}$ 10 kA
- Wire diameter $< 0.6 \text{ mm}$ 5 kA
- Contact resistance (wire connection)
- Typical 1.0 m Ω
- Guaranteed $\leq 2.5 \text{ m}\Omega$
- Total resistance disconnection contact incl. $\leq 10.0 \text{ m}\Omega$

Communication Transmission Values

The LSA-HD® modules are suitable for the following communication services:

- Analog and digital telecommunication services^ Other communication services
- Ethernet (10BaseT) with 10 MBit/s^ Token Ring with 4 or 16 MBit/s^ TPDDI with 100 MBit/s

Ordering Information

Code	Description	Picture
1008 1010	LSA-HD® module <ul style="list-style-type: none"> • LSA-HD® connection module for 10 pairs • LSA-HD® connection module for 10 pairs for core diameters up to 1.8 mm (i.e. for circuit integrity cables) 	
1008 1010/F	<ul style="list-style-type: none"> • LSA-HD® separation module for 10 pairs • LSA-HD® separation module for 10 pairs 	
1008 1110	Core diameter 1.8 mm for cables with functional integrity	
1008 3101	LSA-Punch Down Tool with Sensor <ul style="list-style-type: none"> • With sensor for detection of wire end-position • Housing color: green/gray • For termination of wires with the conductor <ul style="list-style-type: none"> o Diameter range 0.35 P 0.9 mm (overall o Diameter range 0.7 P 2.6 mm) on LSA modules • Scissors can be deactivated so that a potential can be through-connected to other contacts • Fold-out blade and extraction hook 	

1.1 LSA Overview

Connection & Disconnection Modules

Ordering Information (continued)

Code	Description	Picture
3030 051 3030 052	Designation kit <ul style="list-style-type: none"> For marking of LSA-HD® modules and LSA modules Series 2 Colour: Gray 	
1008 3502	Module label holder HD <ul style="list-style-type: none"> Can be fitted to free spaces Both sides can be labeled, with unprinted paper plate and glass cover Unilaterally labeled with printed paper label 	
1008 3501	Hinged Label Holder HD 10 pairs <ul style="list-style-type: none"> Attached onto LSAPHD® Modules and Surge Protection Magazine Allows labeling on both sides with blank paper labels and transparent covers 	
1008 3405	Disconnection plug HD 1 pair <ul style="list-style-type: none"> For separating a pair in LSA-HD® 	
1008 3515	Marking cap HD 1 pair <ul style="list-style-type: none"> To identify important pairs of LSA-HD® modules Colour coding: 0 = gray^ 1 = yellow^ 2 = green^ 3 = blue^ 5 = red^ 6 = brown^ 9 = white 	
1008 3410	Disconnection Plug HD 10 pair <ul style="list-style-type: none"> For separating 10 pairs of LSA-HD® modules 	

1.1 LSA Overview

Connection & Disconnection Modules

Ordering Information (continued)

Code	Description	Picture
1008 3421	Bridge plug HD The bridges of pairs in LSA-HD® connection and disconnection modules	
1008 3425	<ul style="list-style-type: none"> Bridge plug can be separated by means of diagonal cutters with draw-out 	
1008 3420	<ul style="list-style-type: none"> Sizes: 1 pair (2-pole) ^ 5 pairs (10-pole) ^ 10 pairs (20-pole) 	
1008 5910	Mounting adapter LSA-HD® / LSA Series 2/10 profile round bar <ul style="list-style-type: none"> Fastens by latching onto the profile rods Tool-less installation Stainless steel Complete set 	
	LSA-HD® Overvoltage GDT magazine 10 pairs <ul style="list-style-type: none"> Equipped with 10 3-pole arresters 6x8, 230 V, 5 kA, fail-safe Overvoltage protection magazine for LSA-HD® connection and disconnection modules Coarse protection 	
1008 3212	Test cord HD <ul style="list-style-type: none"> For LSA-HD® connection and disconnection modules Offered in the following configurations: <ul style="list-style-type: none"> 2 pole 4 pole 	
1008 3214	<ul style="list-style-type: none"> Equipped with LSA-HD® plug and 2 sockets (4 mm) for banana plugs Length: 0.2m ^ 0.5m ^ 1.0m ^ 1.5m ^ 2.0m ^ 3.0m ^ 4.0m ^ 5.0m 	
1008 3232	Connection cord HD <ul style="list-style-type: none"> For LSA-HD® connection and disconnection modules Equipped with 2 LSA-HD® plugs and RJ45 plug Offered in the following configurations: <ul style="list-style-type: none"> 2 pole - configuration: 1:1 4 pole - configuration: a-4, a'-5, b-3, b'-6 Configuration: 1:1 Length: 0.2m ^ 0.5m ^ 1.0m ^ 1.5m ^ 2.0m ^ 3.0m ^ 4.0m ^ 5.0m Type: 2 = 2 pole ^ 4 = 4 pole 	