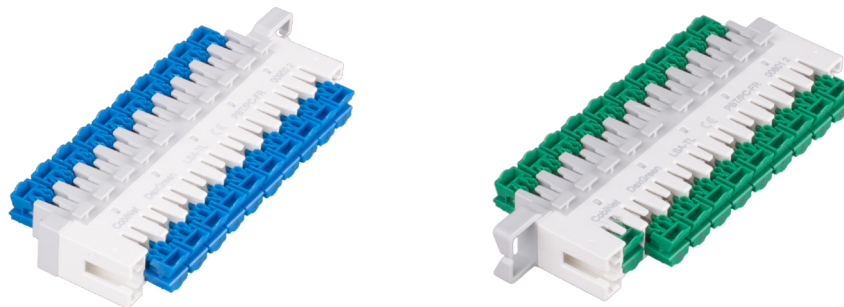# 1.1 LSA Overview
Connection & Disconnection Modules

DEXGREEN

▶ LSA – TL

Application

- Fully tool-less disconnection module with LSA-contacts (45˚ angle) for connecting plastic-insulated copper conductors
- The tool-less design allows wire termination without special insertion tool
- Separate test ports to test both ways
- Silicone Gel encapsulation to provide excellent environmental protection
- Insulation displacement connection according to IEC 60352-4 and DIN-41-611-6-C-EL-CL

Technical Specifications

Climate Area
For application in dry or damp rooms with or without condensation
- Temperature range storage/operation...........................-40 to +80˚C (-40 to 176˚F)

Mechanical values for LSA-TL module
- Housing parts..PBT-PC
- Contact material..Special brass, silver-plated
- Flammability of plastic material.........Self-extinguishing, V0 (According to UL94)
- Dimensions
  - o Width...119.4mm
  - o Height (effective/nominal)...............................17.3/17.8mm
  - o Depth...35.6mm
- Recommended grid dimension in frame.......................22.5mm
- Weight incl. gel...58g

Mechanical values for plastic insulated copper conductors
- Wire diameter for connection with one or two solid wires (same diameter and same type)..0.40 to 0.65mm_ AWG 26 to 22
- Overall diameter (insulation PVC and PE).............................0.70 to 1.10mm
- Repeatability of the wire connecting ....200x (With strands or solid wires 0.4 to 0.65mm)

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Technical Specifications (continued)

Electrical values
The electrical values were collected after 4-day storage in a constant climate environment at 40°C (104°F) and 93% relative humidity
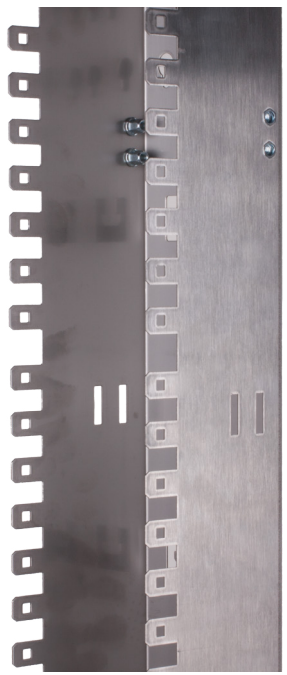
- Insulation resistance at 500V...>5 x 104MΩ
- Dielectric strength..2kVrms
- Impulse strength (waveform 1.2/50μs)....................................3.6kV
- Permitted current carrying capacity of the LSAGTL contact............5kA (waveform 8/20μs)
- Contact resistance (wire connection)..Typical 1.0mΩ
- Guaranteed...≤2.5mΩ
- Total resistance disconnection contact incl......................................≤10.0mΩ

Transmission technical values
The LSA-TL-P modules are suitable for the following communication services:
- xDSL and other analogue and digital telecommunication services
- Ethernet (10BaseT) with 10MBit/s
- Token Ring with 4 or 16MBit/s
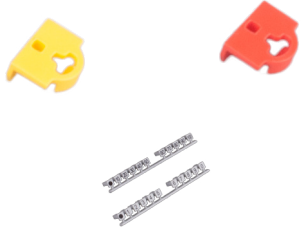- TPDDI with 100Mbit/s

Ordering Information

Code	Description	Picture
82606 / 83035	LSA TL – E side / D side LSA-TL with new Jumper Rings (left and right)	
82602	Mounting Column Capable of mounting onto hanging back rails of standard cabinets, without the need of modifying the existing frame-work • Constructed of stainless steel. The edges of the mounting column are free from burrs or sharp edges that come into contact with connectors and wires. • 300 pair and 400 pair mounting column provided for installation in traditional telecom cabinets • 2 backmount frames provided per unit • Brackets (stability devices) are included with the mounting column in order to connect it to the rear of the cabinet. This ensures the mounting column does not move during installation / maintenance of the connectors. These devices do not interfere with the hanging bars or jumper field.	

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Ordering Information (continued)

Code	Description	Picture
82603	Outrigger • Outrigger fits on back mount frame of LSA 237 and 3M SID. • Cable guides for defined length and accurate wire position. Allows one by one switchover	
82604	Test Adapter • Robust and smart design to provide greater number of insertions and improve the test facilities • Banana plugs for connecting individual testing equipment	
82605	Designation kit • Red marking clip - 100 pieces • Yellow marking clip - 50 pieces • 2 set of Plug number sets • 1,2,3-----0, 10,11,12-------19. & 6 sets of 10,20,30,--------100.	
TBC	Aerial Distribution Box Dexgreen offers distribution point boxes that house LSA-TL modules in the overhead access network. Key features of this solution include: • Bespoke Distribution Point (DP) for 10/20 pair Copper twisted pair applications only. • IP rating: o IP54 rating - standard box_ and o IP68 rating - cable gland added for IP68 rating to accommodate both 10 / 20 pair cable diameters.	

Installation Instructions:

1. **Cabinet Instructions:**
   http://www.dexgreen.com/quickguides/cabinet-instructions
2. **Testing:**
   http://www.dexgreen.com/quickguides/testing
3. **Terminating:**
   http://www.dexgreen.com/quickguides/terminating
4. **Jumpering:**
   http://www.dexgreen.com/quickguides/jumpering

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