

LSA-HD module for 10 pairs

Application

- Connection module with LSA contacts (45° tilt) for connecting plastic insulated copper conductors with solid or stranded wires
- Insulation displacement connection according to IEC 60352-4 and DIN 41 611-6-C-EL-CL



Design

- Printing “1...0”
- According to the technical requirements of Deutsche Telekom AG
- Colour
 - Connection module
 - Jumper side.....RAL 7035 (light gray)
 - Cable side.....RAL 6018 (yellow green)
 - Disconnection module
 - Jumper side.....RAL 9010 (pure white)
 - Cable side.....RAL 6018 (yellow green)

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..... 0.4 to 0.80¹ mm; AWG 26 to 20
 - Connection with two solid wires (same diameter and same type)..... 0.40 to 0.65 mm; AWG 26 to 22
 - Connection with one stranded wire, tin-plated..... 7x 0.12 to 0.32 mm; 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 0.4 to 0.65 mm..... 200x
 - With solid wires 0.80 mm..... 50x
- Contact material..... special brass, silver-plated

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 500 V..... >5·10⁴ MΩ
- Dielectric strength..... 2 kV_{rms}
- Impulse strength (waveform 1.2/50 μs)..... 3.6 kV
- Permitted current carrying capacity (waveform 8/20 μs) of the LSA contact
 - Wire diameter ≥0.6 mm..... 10 kA
 - Wire diameter <0.6 mm..... 5 kA
- Contact resistance (wire connection)
 - Typical..... 1.0 mΩ
 - Guaranteed..... ≤2.5 mΩ
 - Total resistance disconnection contact incl. ≤10.0 mΩ

Communication transmission values

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

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

1 after connecting once wires ≥0,65 mm not usable for smaller wire diameters