Data sheet R813510

# Connection Module Cat. 6A EL, 1xRJ45/u, Special, 10x

PRODUCT_IMAGE

## DESCRIPTION

The module for the classic office cabling. Easy to install with solid Category 6A performance.
The R&Mfreenet Category 6A EL connection modules, part of the Freenet cabling system, are ideal for voice, fast data transmissions and high bandwidth applications. This highperformance Category 6A module is perfect for use in 10 Gigabit Ethernet (10GBASE-T) and future high-speed applications up to 500 MHz.

## SCOPE OF SUPPLY

- RJ45 Category 6A EL connection module, unshielded
- Dust cover

## TENDER

RJ45 connection module of Category 6A EL, for the setting up of transmission channels of Class EA with up to 4 connectors acc. to ISO/IEC 11801, EN 50173-1, (DIN EN 50173-1), complies with Category 6A requirements of the standards ISO/IEC 11801, EN 50173-1 as well the U.S. standard Category 6A according to TIA/EIA 568.2-D, re-embedded tested in acc. with IEC 60603-7-41 and 60512-27-100, interoperable and backwards compatible with Category 6 and Category 5e.

Suitable for 10GBASE-T applications in acc. with IEEE 802.3™ Section Four up to 500 MHz and 100 m.

Tested in line with R&M's manufacturing control, performing 100% inspection. Each module has an own serial number and is traceable.
Compatible with RJ standard plugs (RJ11, RJ12, RJ45), connection of installation cables AWG 26 22 (0.4 mm 0.65 mm) and flexible cables AWG 26/7 AWG 22/7 without special tools. Parallel pair termination without crossover in acc. with TIA 568-A/B, gold-plated bronze contacts for >1000 mating cycles, IDC contacts with ≥4 insertion cycles acc. to IEC 60352-3, contact resistance <5 mOhm, dielectric strength >1000 Veff. Supports PoE (IEEE 802.3af), PoEP (IEEE 802.3at), 4PpoE (IEEE 802.3bt) and is compatible to IEC 60512-99-001/002. With integral cable strain relief, including dust cover. Red / black plastic housing.

Material: halogen-free and heavy-metal free in acc. with EU directives RoHS 2.

Connection module Category 6A EL, red / black, unshielded and dust cover.

## GET MORE

- Just two components
- Terminated in just a few steps
- Integrated strain relief
- Installation not requiring specialized knowledge
- Shielded and unshielded
- For all cable types and diameters
- Can be rewired
- Compatible with common platforms
- Fully tested
- Reliable insulation displacement contacting (IDC)
- Independently certified

• R&M warranty program Productive

## FEATURES

• Meets the Category 6A ISO component specification (for the entire re-embedded plug range as specified by the standards ISO/IEC 11801, EN 50173, TIA/EIA 568.2-D, IEC 60603-7-51 and 60603-7
• Exceeding the IEEE 802.3 an minimum requements for 10GBASE-T performance
• Achieves best transmission characteristics with R&Mfreenet Category 6A patch cables
• Gold-plated contact area and tin-plated insulation displacement contact area
• Capacitive and inductive compensation
• Compatible with Category 6A standard patch cords and cables
• Full mechanical and electrical backward compatibility with Cat. 5e/6
• RJ-11/12/14 compatible
• Fits into 3rd party outlets and patchpanel with 4 different adapter
• Tool-free (w/o special tools) connection of installation cables of AWG 22 - 26 plus stranded cables of AWG 22/7 - 26/7
• Wiring option according to TIA 568 A and B with parallel termination of the pairs without splitting of pair 3,6
• Label with color wiring chart, integrated production date and serialnumber (each module) for quality tracing
• Halogen-free materials
• 4PPoE level 4, 90W compatible
• 3P certified

## TECHNICAL DATA

| DESCRIPTION | VALUE / VALUE RANGE |
|---|---|
| Category connector (A) | Cat. 6A ISO |
| Connector type (A) | RJ45 |
| Shielding connector (A) | unshielded |
| Protection class IP | IP 20 |
| PoE | Yes |
| PowerSafe | Yes |
| Connector class | connection module |
| Wiring diagram | T568A and T568B |
| Holder for connector / module | Special (without mounting plate) |
| Poles | 8 |

## MECHANICAL DATA

| DESCRIPTION | VALUE / VALUE RANGE |
|---|---|
| Color | black / red |

## ELECTRICAL DATA

| DESCRIPTION | VALUE / VALUE RANGE |
|---|---|
| Standard | EN 50173-1 |
| | IEC 60603-7-41: Electrical Characteristics of the Telecommunication Outlets |
| | ISO/IEC 11801 |
| | UL Recognized |

## ACCESSORIES

| Type | Picture | Description | Article | E-Number |
|---|---|---|---|---|

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|---|---|---|---|---|
| Accessories | | Cable Insert Cat. 6A EL, 4-5 mm Cable | R813797 | |
| Accessories | | Adapter No. 1, module Cat. 6A EL & ISO | R832197 | |
| Accessories | | Adapter 90° Module RJ45 C6A-EL/u-10 | R833666 | |
| Accessories | | Adapter C6 EL, 6A /u Keystone 3rd Gen. | R837033 | |
| Accessories | | Adapter C6 EL, C6A /u Keystone LARGE | R848274 | |