



### DESCRIPTION

The module for the highest standards. Guarantees the best performance reserves for 10G Ethernet cabling and beyond. The R&Mfreenet Cat. 6A shielded connection modules, part of the Advanced cabling system, are ideal for voice, fast data transmissions and high bandwidth applications. This high-performance Cat. 6A module is perfect for use in 10 Gigabit Ethernet (10GBASE-T) and future high-speed applications to 500 MHz. Together with Cat.7A installation cables with AWG22 it is «25G Ready» according to TR11801-9905 and allows for 25GBase-T transmission up to 30m.

090.5360

### SCOPE OF SUPPLY

- RJ45 Cat. 6A ISO connection module, shielded
- Mounting plate
- EMC cover
- Dust cover
- Cable tie
- Installation instructions

### TENDER

RJ45 connection module of Cat. 6A ISO, for the setting up of transmission channels of Class EA with up to 4 plugged connections acc. to ISO/IEC 11801, EN 50173-1, (DIN EN 50173-1) and Class F on 2 pairs, complies with Cat. 6A requirements of the standards ISO/IEC 11801, EN 50173-1, as well the U.S. standard Cat. 6A according to TIA/EIA 568.2-D, re-embedded tested in acc. with IEC 60603-7-51 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.

Meets the requirements of ISO/IEC TR11801-9905 together with Cat.7A installation cables with AWG22 and allows for 25GBase-T transmission up to 30m.

Tested in line with R&M's manufacturing control, performing 100% inspection.

Compatible with RJ standard plugs (RJ11, RJ12, RJ45), connection with automatic wire cutting of installation cables AWG 26 22 (0.4 mm 0.65 mm) and flexible cables AWG 26/7 AWG 22/7 without special tools. X-Separator for individual pair shielding. Parallel pair termination without crossover in acc. with TIA 568-A/B, gold-plated bronze contacts for >1000 mating cycles, IDC contacts with >20 insertion cycles, 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. 90° wire orientation without bending cable. With integral cable strain relief, including dust cover. Shield contacting by patented shield lance with integral cable strain relief, shield material tin-coated bronze, ground contacting through 1 contact finger for flat connectors 4.8 x 0.5 mm.

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

Connection module Cat. 6A ISO, shielded, with EMC cover, dust cover, mounting plate, cable tie and installation instructions.

### GET MORE

- Innovation in twisted-pair connection technology
- Reliable high-frequency data transmission
- High performance enables 2 m short links and «25G Ready» support
- Guaranteed 4dB margin NEXT on permanent link or channel
- High density in the patch panel and rack

- Assembly saves time and cost
- Innovatively protected signal transmission
- Consistent performance
- 360° shield housing
- Large-area color coding
- 100% quality control
- «25G Ready»
- Quick and simple installation
- Reliable IDC technology
- Automatic cutting of wires
- Each module delivered with protective cover
- 0° and 90° orientation in one module

## FEATURES

- Exceeds the Cat. 6A ISO specification (mated) for the entire re-embedded plug range as specified by IEC 60603-7-51 (shielded), 60603-7-41 (unshielded) and IEC 60512-27-100. Exceeds the Cat. 6A specification (mated) for the entire re-embedded plug range as specified by TIA/EIA 568.2-D
- Achieves exceptional margins when installed as part of an R&M Cat. 6A ISO 4-connector channel or permanent link, exceeding the IEEE 802.3™ Section Four minimum requirements for 10GBASE-T performance, as well as the requirements for Class EA performance according to ISO/IEC 11801 and Cat. 6A performance according to TIA/EIA 568.2-D
- Meets the requirements of ISO/IEC TR11801-9905 together with Cat.7A installation cables with AWG22 and allows for 25GBase-T transmission up to 30m.
- Automatic cutting of wires for precise, consistent termination
- X-Separator isolates pairs from each other, minimizing influence of cable termination on NEXT performance
- Use of all four sides of modules maximizes distance between pairs for optimum performance
- GHMT and 3P certifications for Cat. 6A ISO component performance

## TECHNICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Category connector (A)	Cat. 6A ISO «25G Ready»
Connector type (A)	RJ45
Shielding connector (A)	shielded
PoE	Yes
Connector class	connection module
Wiring diagram	T568A and T568B
Holder for connector / module	Mounting plate
Poles	8
Standard	ISO/IEC TR11801-9905 UL Listed EN 50173-1 IEC 60603-7: Electrical Characteristics of the Telecommunication Outlets ISO/IEC 11801

## MECHANICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Color	silver / red
Material	plastic: PC, UL 94 V-0