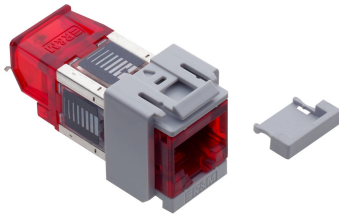# Product information

Connection Module Cat. 6A, 1xRJ45/u, Snap-in, grey, 100x

R509503
100 pcs

The module for the highest standards, guarantees the best performance in the 10 Gigabit Ethernet cabling.
RJ45 Cat. 6_A ISO connection module, unshielded
Snap-in adapter
Dust cover
Cable tie
Installation instructions

090.5448

Description

The R&M*freenet* Cat. 6_A unshielded connection modules, part of the Advanced cabling system, are ideal for voice, fast data transmissions and high bandwidth applications. This high-performance Cat. 6_A module is perfect for use in 10 Gigabit Ethernet (10GBASE-T) and future high-speed applications to 500 MHz.

Technical Data

DESCRIPTION [UNIT]	VALUE/VALUE RANGE
Standard	UL Listed IEC 60603-7-41: Electrical Characteristics of the Telecommunication Outlets ISO/IEC 11801-1 Ed 1.0 2017-11 EN 50173-1: May 2011
Protection class IP	IP 20
PoE	Yes
Connector class	connection module
Shielding connector (A)	unshielded
Connector type (A)	RJ45
Category connector (A)	Cat. 6_A ISO
Holder for connector / module	Snap-in
Wiring diagram	TIA-568A / TIA-568B
Poles	8

Mechanical Data

DESCRIPTION [UNIT]	VALUE/VALUE RANGE
Color	module, red / Snap-in adapter, gray (NCS 2502-B)

RJ45 connection module of Cat. 6_A ISO, for the setting up of transmission channels of Class E_A with up to 4 plugged connections acc. to ISO/IEC 11801 ed. 2.2, June 2011, EN 50173-1 May 2011 (DIN EN 50173-1) and Class F on 2 pairs, complies with Cat. 6_A requirements of the standards ISO/IEC 11801 ed. 2.2, June 2011, EN 50173-1 May 2011, as well the U.S. standard Cat. 6_A according to TIA 568-C.2, 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.

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.

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

Connection module Cat. 6_A ISO, unshielded, with dust cover, snap-in frame (gray), cable tie and installation instructions.