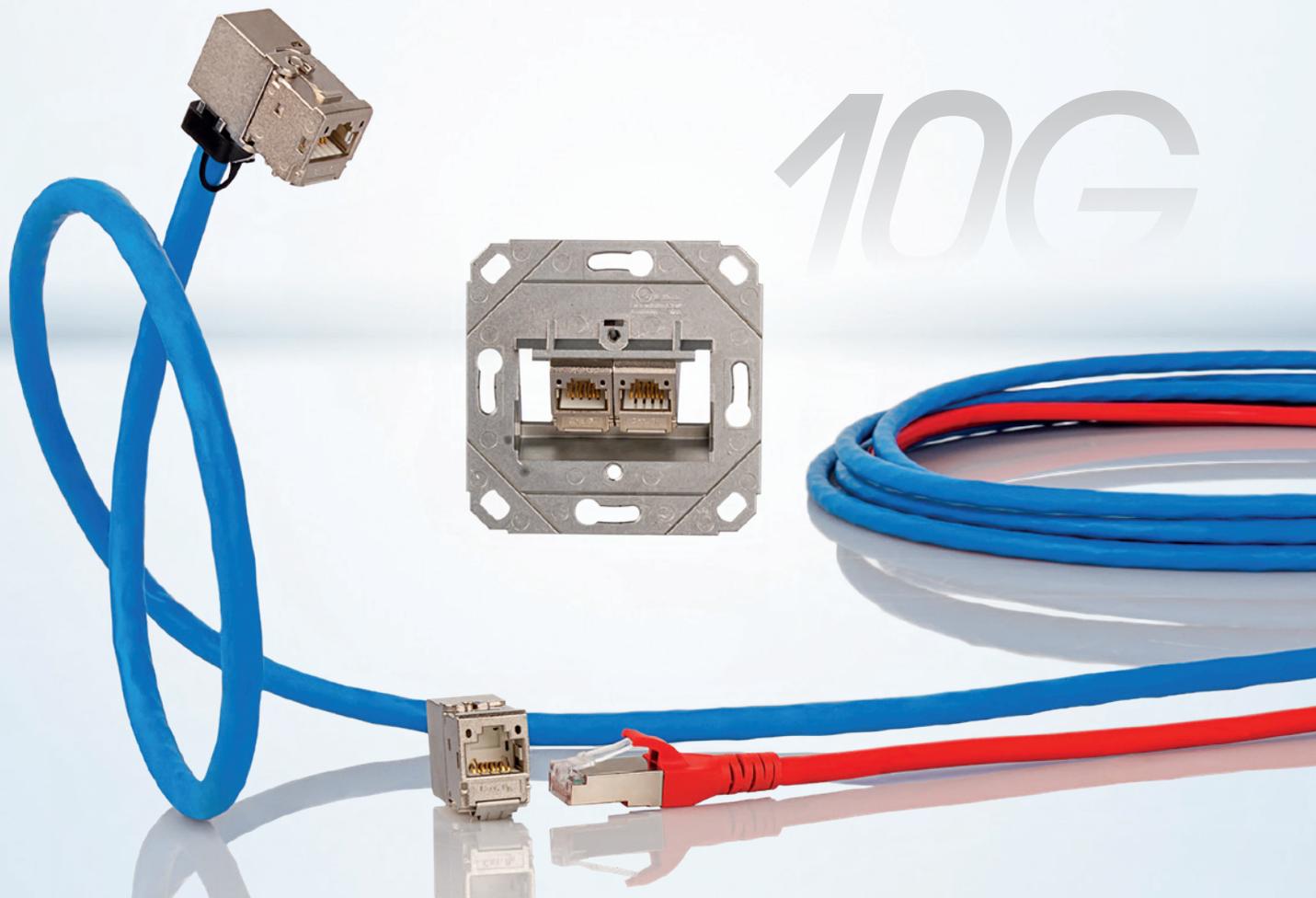


C6_Amodul and C6_Amodul Keystone – The connection system for a variety of applications



Intelligent system solution for structured cabling

Today, the need for high data transfer rates is enormous. This applies to public buildings and office complexes, but also for real estate and private real estate. A forward-looking, intelligent building cabling for a wide variety of uses is similar important to residents as basic building control systems.

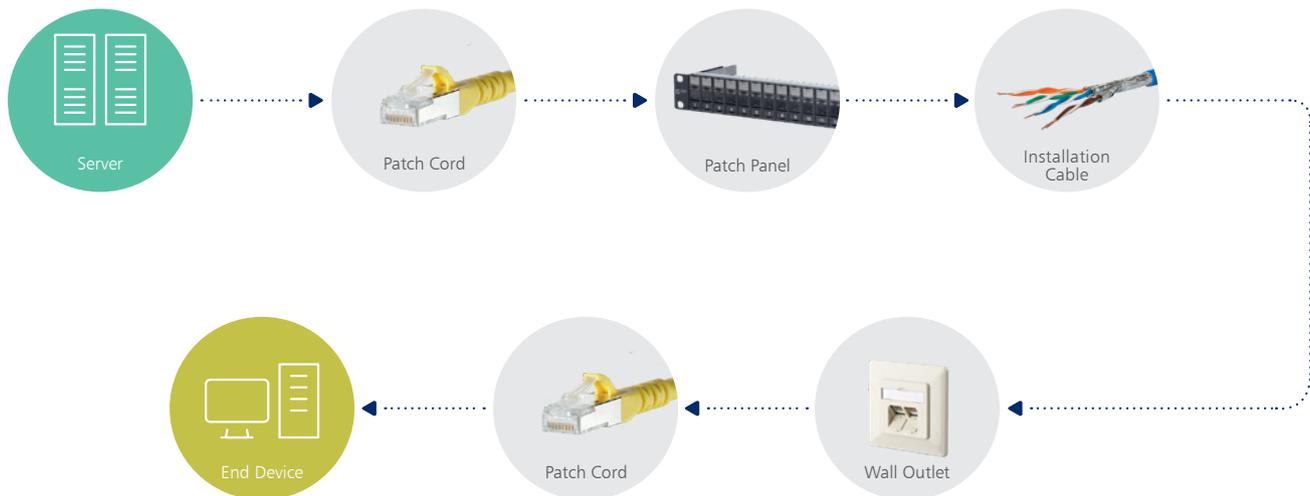
It helps owners to manage their investments over the years as well as to minimize installation and maintenance costs. As a guide for planning and implementation of cabling systems there are national and international standards, however they only represent a basis. Important for a sustainable, structured building cabling are continuous, internationally standardized and powerful network solutions. These needs are covered by our C6Amodul and C6Amodul Keystone connection systems with Cat.6A. Because of their high system capability, the modules can be used in a wide variety of applications.

In addition to the C6Amodul, we also offer solutions in the P|Cabling product range for structured building, industrial cabling and data centers. These are highly specialized, internationally standardized and powerful connection components and systems in copper and fiber optic technology.

All these products offer a high level of installation friendliness, maximum quality and highest system capability across all relevant performance classes. With RJ45, we offer the 25G system with transmission rates up to 25 GBit/s. In the Fiber Optic from Singelmode OS2 up to the new Multimode OM5 products for transmission rates of more than 200 GBit/s and more.

The highest compatibility for efficient use

Our connection system is consistent and compatible – a requirement for transparent, efficient and individual use of future-oriented network and cabling systems.

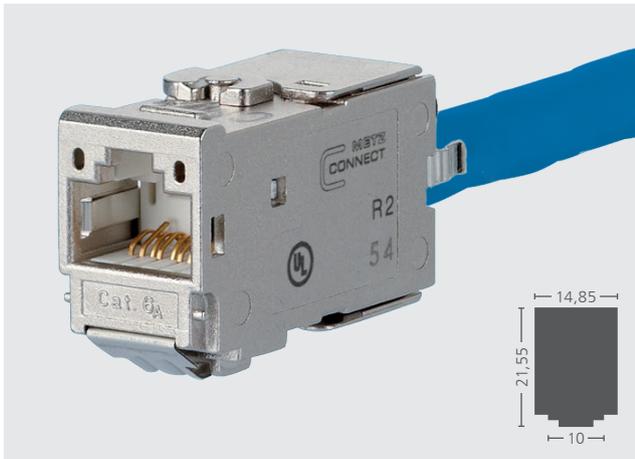


Performance overview C6_Amodul and C6_Amodul Keystone

This flexible, modular core of the system manages to ensure a general cabling basis, non-regarding which communication application is transmitted.

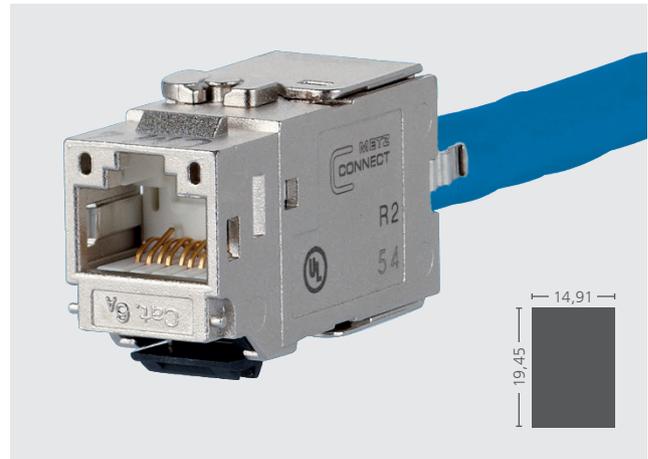
- > GHMT Cat.6_A re-embedded PVP certified
- > Cat.6_A component testing according to ISO/IEC 11801-1, EN 50173-1, GHMT certified
- > Compliance with Class E_A according to ISO/IEC 11801-1 and EN 50173-1
- > Components tested up to 600 MHz, link tested up to 800 MHz
- > 2 mounting version: module and Keystone
- > 3 Variants of cable feeding: 90°, 180° and 270°
- > Connection without special tools, short assembly and connection time
- > Patch and installation cable can be connected in the sizes AWG 26/7–22/7 and AWG 24/1–22/1
- > for 10BaseT, 100BaseT, ATM 155 MBit/s, Gigabit Ethernet, 10GBASE-T, suitable for remote powering (PoE, PoE plus, UPoE and 4PPoE), HDBaseT, SAT-IP and AVoverIP
- > Robust and reusable zinc diecast module housing
- > Intelligent cable management for heavily twisted cables
- > Strain relief directly on the charging piece
- > 360° shield connection
- > A dust cover is optionally available

Variants C6_Amodul (Installation cut-out MC Module)



C6_Amodul 180°

Variants C6_Amodul K (Installation cut-out design Keystone)



C6_Amodul K 180°



C6_Amodul 90°



C6_Amodul 270°



C6_Amodul K 90°



C6_Amodul K 270°

Versatile and universal - system solutions from a single source

The challenge to a future-oriented connection system, which can be used universally and flexible, is enormous. The C6_Amodul and C6_Amodul Keystone connection systems meet these complex requirements: This enables a use in a wide variety of applications, including the already existing applications of the E-DAT module system as well as in the Keystone applications on the market. The three versions of cable feeds permit a use even in small spaces.

Further advantages are the simple and cost-effective assembly without special tools as well as the direct use of switch manufacturer-labeled covers. Our network components forms a continuous system - from server via patch cable, patch panel and wall outlet up to the end device we offer compatibility from one source. The advantages of our system solutions are increased safety and a simplification of assembly and installation.

Applications for C6_Amodul



Wall outlets



DIN rail housing REGplus



IP-protected wall outlet



Patch panel with Patch-Management sensor, unequipped 24 port



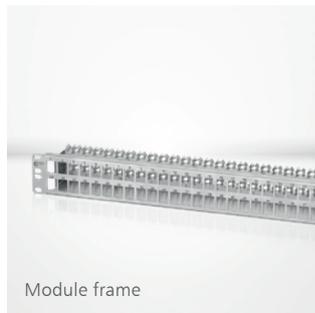
Underfloor GB2/GB3



Surface-mounted housing
3, 4, 6, 8, 12, 16 and 24 Port



Module frame



Module frame



Surface-mounted wall
outlets and face plates

High performance

The modules demonstrate high performance by meeting the Cat.6A component standard ISO/IEC 11801-1 for applications in the range up to 500 MHz bandwidth and 10 GBit Ethernet according to IEEE 802.3an. The C6Amodul is available as a component tested up to 600 MHz and in the link up to 800 MHz. The product quality is further enhanced by a robust zinc die-cast housing.

Independent certification

The connection system meets the requirements of the Cat.6A standards and is certified by an independent accredited test laboratory according to ISO/IEC 11801-1, TIA/EIA-568, IEC 60603-7-51 and EN 50173-1 tested and certified. By participating in the continuous and independent GHMT Premium

Verification Program (PVP) and the resulting certification, you can be sure that you will always have a high-quality product.

According to the above standard, the requirements of Class E_A are also met in the permanent- and channel- link.



Cat.6A, Cat.6_A?

There is some confusion on the market about the names and the specifications of the Cat.6_A standard, because there are two valid standards for this. The specifications according to TIA/EIA (American standard) are less strict and do not differentiate between cabling route and component. Here everything is referred as category (Cat.).

Compared to the ISO/IEC (international standard) which differs between cabling routes (class/class) and components (Category/Cat.), also the specifications

are higher. Another difference between the two standards is the notation Cat.6A (TIA/EIA) and Cat.6_A or Class E_A (ISO/IEC). The performance of a Cat.6A channel link to EIA/TIA does not match the performance of a class E_A Channel-Link compared to ISO/IEC!

If you would like to ensure, that you have an optimal cabling according to class E_A, you need to choose your components to the Cat.6_A specification according to ISO/IEC.

Suitability of the components compared to the standards ISO/IEC and TIA/EIA

	TIA/EIA Cat.6A Channel	TIA/EIA Cat.6A Permanent Link	TIA/EIA Cat.6A Components	ISO/IEC Class E _A Channel	ISO/IEC Class E _A Permanent Link	ISO/IEC Cat.6 _A Components
TIA/EIA Cat.6A Components	✓	✓	✓	2 Conn. nearly 4 Conn. No	2 Conn. nearly 3 Conn. No	✗
ISO/IEC Cat.6A Components	✓	✓	✓	2 and 4 Conn. ✓	2 and 3 Conn. ✓	✓
Einhaltung der Spezifikationen						keine Einhaltung der Spezifikationen

Conclusion: Components that comply with the specifications of ISO/IEC Cat.6_A, such as our C6_A module connection system, can be used worldwide, because here applies the "stricter" limit values.

No system without installation and patch cables

10 GBit high-speed data transmission requires the performance of all components. In addition to the connection components, we offer appropriate installation cable and patch cord for a complete and comprehensive solution from the server up to the end device



GC1300 pro22 Cat.7_A S/FTP LSHF-FR Simplex/Duplex

- > 25/10 GBit installation cable
- > Pair shielded installation cable Cat.7_A AWG 22 S/FTP
- > Simplex 4 pairs (PiMF) or Duplex 2 x 4 pairs (PiMF)
- > Overall shield: Cu tinned braid, coupling loss \geq 85 dB
- > Applicable standards: EN 50173-1; ISO/IEC 11801-1; EN 50288-9-1 and IEC 61156-5
- > Flame retardancy: IEC 60332-1; IEC 60332-3-24; IEC 60754-2 and IEC 61034
- > Standard length: Simplex = 1000 m/Duplex = 500 m on a drum
- > Cable sheath: LSHF-FR (LSOH-FR) - Low Smoke, Halogen-Free, Flame Retardant
- > Reaction to fire: Class D_{ca} s2d2a1 according to EN 50399 (classification according to EN 13501-6)

P/N	DESCRIPTION	EAN
1308427B34142	Simplex 1000 m on a drum	4251394603995
1308427B34143	Duplex 500 m on a drum	4251394604008



Patch cord Cat.6_A 10G AWG 26

- > especially suitable for unshielded and shielded Class E_A systems
- > fully shielded Cat.6_A patch cord AWG 26/7
- > two shielded RJ45 plugs, wiring 1 - 1
- > Cable type: S/FTP 4 x 2 x AWG 26/7 PIMF
- > Cat.6_A component testing according to ISO/IEC 11801-1 and IEC 61935, GHMT certified
- > Cable sheath LSHF(LSOH), Halogen Free
- > Class E_A link up to 500 MHz according to ISO/IEC 11801-1, EN 50173-1
- > for 10BaseT, 100BaseT, ATM 155 MBit/s, Gigabit Ethernet, 10GBASE-T, suitable for remote powering (PoE, PoE plus and UPoE), HDBaseT, SAT-IP and AVoverIP
- > Anti-kink sleeve sprayed, with integrated locking lever protection

P/N (xx = length)	DESCRIPTION	P/N (xx = length)	DESCRIPTION
130845xx00-E	black	130845xx44-E	blue
130845xx01-E	orange, black bend protection	130845xx55-E	green
130845xx02-E	magenta, black bend protection	130845xx66-E	red
130845xx09-E	violet, black bend protection	130845xx77-E	yellow
130845xx33-E	grey	130845xx88-E	white

Order matrix

C6Amodul		DESIGN MC MODULE		
C6Amodul package		Individual module package C6Amodul 130B11-E		12 unit module package C6Amodul 130B11-Z
19 inch module frame unequipped*	1HE, alu/light grey 130920-00-E	1HE, stainless steel 130921-00-E	19 inch module support 1.5HE, 48 port, stainless steel 130924-00-E	1HE, black 130920-BK-E PM System 13PP11B-E
Module module frame unequipped				3HE, 7TE 6 port stainless steel 130B10E2E-E
DCCS2 component unequipped				4 Ports 130D2CBU4-E
Wall outlet unequipped*	AP 1 Port 130B10D10002-E 2 Port 130B10D20002-E 3 Port 130B10D30002-E	UP 1 Port 1309141002-E 2 Port 1309151002-E 3 Port 1309161002-E	UPk 1 Port 1309141102-E 2 Port 1309151102-E 3 Port 1309161102-E	UPO 1 Port 1309141200-E 2 Port 1309151200-E 3 Port 1309141200-E
DIN rail installation REGplus unequipped*				Module REGplus IP20 1309427103-E
Wall-mount housing unequipped	2 Port 130861-0202-E 3 Port 130861-0302-E	4 Port 130861-0402-E 6 Port 130861-0602-E	8 Port 130861-0802-E 12 Port 130861-1202-E	16 Port 130861-1602-E 24 Port 130861-2402-E
Underfloor installation unequipped X = Port number	Subway underfloor unit GB2, 3, 6, 9 port 1309350X01-E	Subway-M metal adapter plate SI 13093-AM3-E		Subway underfloor unit GB3, 03, 06, 09, 12 port 130936XX01-E
Wall outlet IPxx 2 port, unequipped	AP, IP20 1309450003-E	AP, IP44 1309430003-E		
IP67 V6 1 port	Flange 1309413003-E	with mounting kit 1309413203-E		
IP44 module housing MC module	AP pure white 1309470002-I gray 1309470003-I	UP pure white 1309471002-I gray 1309471003-I		

*19 inch panels available with 180° modules available, wall outlets and REGplus equipped with 180° or 270° modules available

C6Amodul K		DESIGN KEYSTONE		
C6Amodul K package		Individual module package C6Amodul K 130B21-E		12 unit module package C6Amodul K 130B21-Z
19 inch Keystone module frame 1HE, unequipped	Alu/light grey 130920-00KE	Light grey 130926-0003KE 130926A0003KE	Stainless steel 130A21-00-E	black 130920-BKKE 130926-0029KE 130926A0029KE
Keystone module frame unequipped				3HE, 7TE, 6 port stainless steel 130B20E2E-E
DCCS2 component unequipped				4 Ports Keystone 130D2CKU4-E
Wall outlets Keystone unequipped	AP 1 Port 130B20D10002KE 2 Port 130B20D20002KE 3 Port 130B30D30002KE	UP 1 Port 130B20D11002KE 2 Port 130B20D21002KE 3 Port 130B20D31002KE	UPk 1 Port 130B20D11102KE 2 Port 130B20D21102KE 3 Port 130B20D31102KE	UPO 1Port 130B20D11200KE 2Port 130B20D21200KE 3Port 130B20D31200KE
DIN rail installation REGplus unequipped Special junction boxes unequipped	AP 1 Port 1309140002KE 2 Port 1309150002KE 6 Port 1309190002KE		45 x 45 1 Port 130914J4502KE 2 Port 130915J4502KE	REGplus IP20 1309428103-E
Wall-mount housing unequipped	2 Port 130861-0202KE 3 Port 130861-0302KE	4 Port 130861-0402KE 6 Port 130861-0602KE	8 Port 130861-0802KE 12 Port 130861-1202KE	16 Port 130861-1602KE 24 Port 130861-2402KE
Underfloor installation Keystone unequipped X = port number	Subway Keystone Underfloor unit GB2 3, 6, 9 Port 130B20S50X01-E	Subway-M metal adapter plate SI 13093-AK3-E 13093-AK4-E		Subway Keystone Underfloor unit GB3 03, 06, 09, 12 Port 130B20S6XX01-E
Wall outlets 2 port, unequipped	AP, IP44 1309430003KE	AP, IP44 SG 1309460003KI	AP, IP44 SG 1309460003-I	UP, IP44 SG 1309461002-I (white) 1309461003-I (gray)
IP67 V6 1 port	Flange 1309413103-E	with mounting kit 1309413303-E		
IP44 module housing Keystone	AP pure white 1309470002KI gray 1309470003KI	UP pure white 1309471002KI gray 1309471003KI		

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