Telegärtner
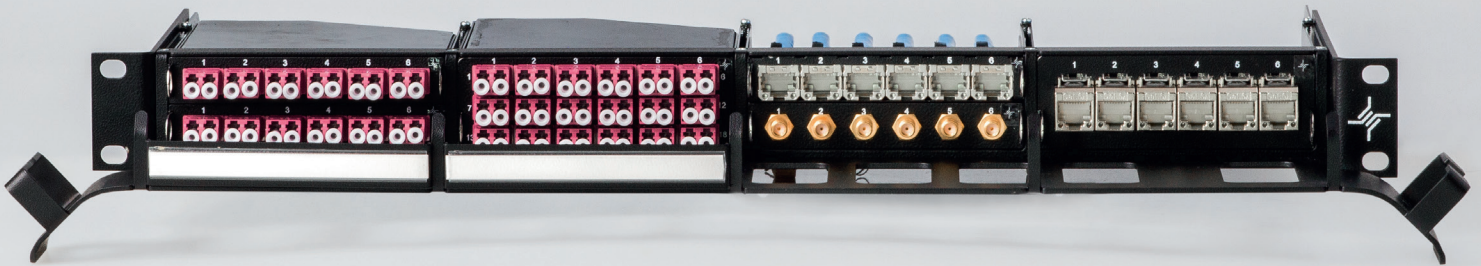**KARL GÄRTNER GMBH**

NETWORKING COMPONENTS

COAXIAL CONNECTORS

CABLE ASSEMBLIES

PRECISION TURNED PARTS

PLASTIC INJECTION MOULD PARTS

INDUSTRIAL ELECTRONICS

Flexibility and High Density

[HD]³ **High Density**
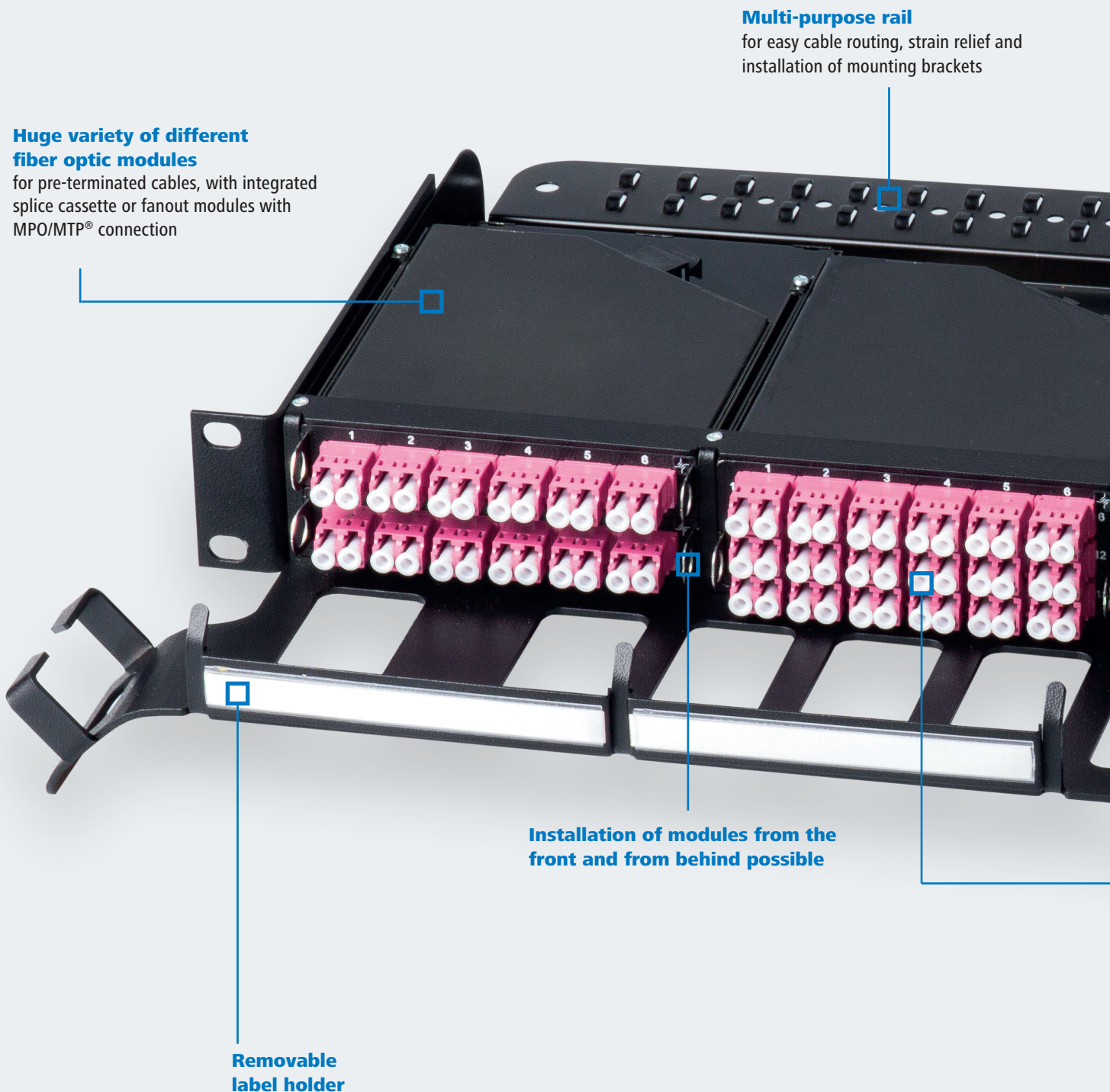**High Durability**
High Diversity

DataVoice

Modular Patch Panel HD³

Flexibility and high density for optimum results.

Space is expensive, especially in data centres and telecommunication rooms of telecom companies. High costs call for optimum usage with high density solutions. At the same time, connections have to be robust, reliable and easy to handle. And as there is a constant change in IT technologies, the cabling has to be highly flexible to allow efficient technology changes.
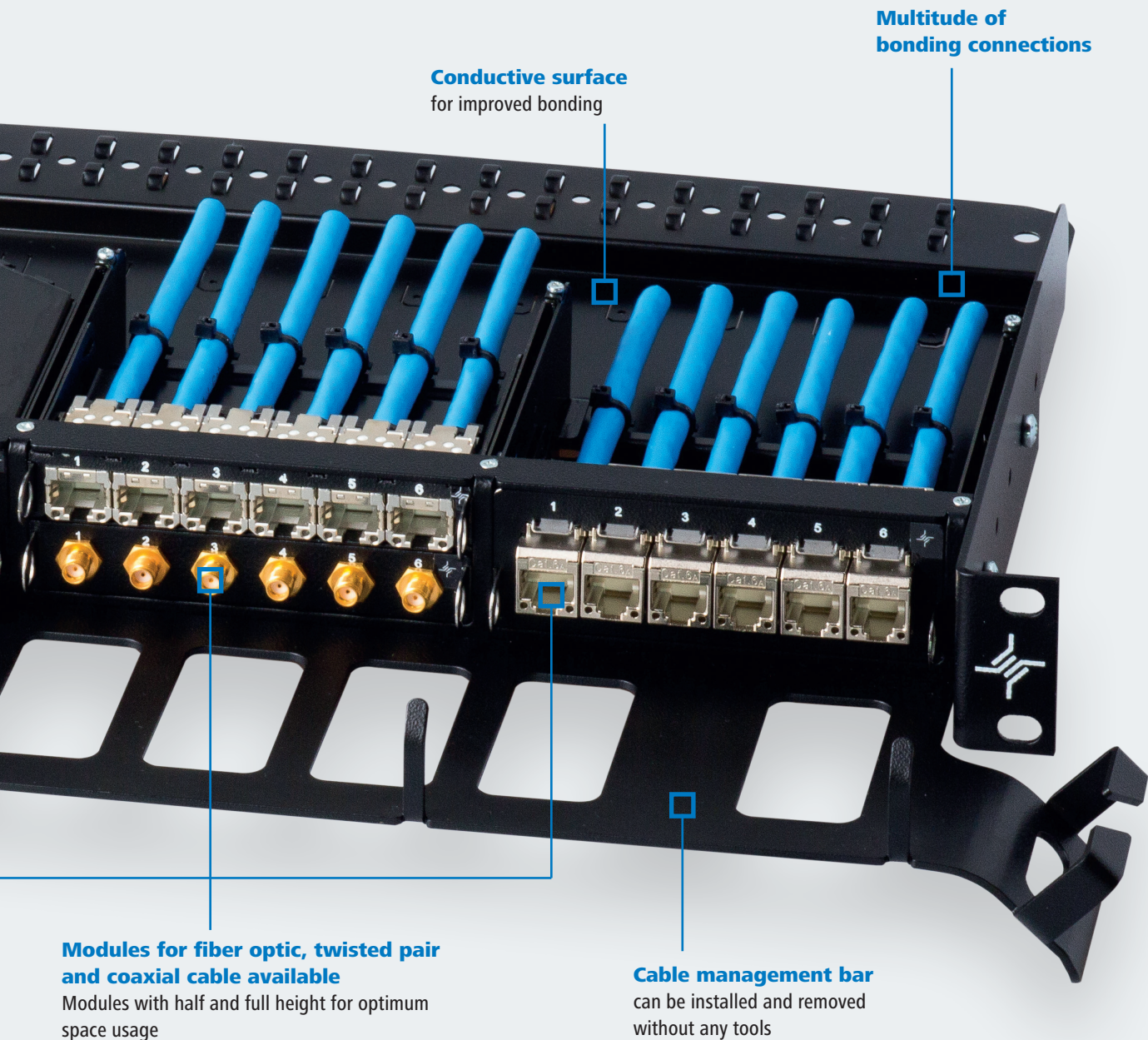
These opposed demands were our challenge, which we accepted according to our motto „Best Contacts for your Success". The new patch panel system HD³ – *High Density,*

High Durability, High Dynamic – offers the user the port density, ease of use, durability, performance and flexibility needed in the networks of today and tomorrow. With fiber optic, twisted pair and coax modules for the cabling installation on site as well as to connect pre-terminated cables that can be combined individually and be installed and changed within just a few seconds, the new HD³ patch panel is the ideal solution for users who need a high density, high quality, easy to use, efficient, flexible and future-proof solution.

Multi-purpose rail
for easy cable routing, strain relief and installation of mounting brackets

Huge variety of different fiber optic modules
for pre-terminated cables, with integrated splice cassette or fanout modules with MPO/MTP® connection

Installation of modules from the front and from behind possible

Removable label holder

Features and benefits:

- ½ HU, 1 HU and 3 HU modular 19" panels
- Panels can be installed in 19" racks and cabinets in recessed position
- Modules can be installed in recessed position in the panels
- Conductive surface of panel and module chassis for improved bonding
- Multitude of bonding connections
- Multi-purpose rail for easy cable routing, strain relief and installation of mounting brackets
- Modules for fiber optic, twisted pair and coaxial cable available
- Installation of modules from the front and from behind possible due to innovative locking mechanism
- Modules in standard non-recessed position can be exchanged quickly without the need for special tools

- Mixing of fiber optic, twisted pair and coaxial modules in the same panel for maximum efficiency
- Huge variety of different fiber optic modules for breakout/mini-breakout/pre-terminated cables, with integrated splice cassette or fanout modules with MPO/MTP® connection
- Up to 144 fibers with LC connectors per HU with MPO/MTP® modules
- Up to 144 fibers with LC connectors per HU with breakout and mini-breakout cables, up to 96 fibers with loose tube cables
- Up to 48 RJ45 jacks per HU
- Up to 48 SMA or 24 BNC coax connections per HU
- Cable management can be installed and removed without any tools
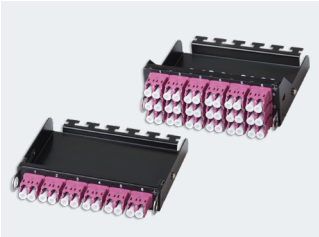- Customer-specific modules available on request

Multitude of bonding connections

Conductive surface
for improved bonding

Modules for fiber optic, twisted pair and coaxial cable available
Modules with half and full height for optimum space usage

Cable management bar
can be installed and removed without any tools

Modules

For breakout and mini-breakout cables as well as for pre-terminated cables (TICNET). Slots in 1 HU panels also accept two modules of half height stacked upon each other.
Please order mounting brackets for pre-terminated cable assemblies separately.

Order no.	Description	Remarks
H02050A4001	HD³ patch module 0.5HU 6xLC-D OM3	Module with 6 LC duplex OM3 adaptors aqua; half height (17 mm)
H02050A4002	HD³ patch module 0.5HU 6xLC-D OM4	Module with 6 LC duplex OM4 adaptors violet; half height (17 mm)
H02050A4005	HD³ patch module 1HU 18xLC-D OM3	Module with 18 LC duplex OM3 adaptors aqua; 3 rows with 6 adaptors each; full height (34 mm)
H02050A4006	HD³ patch module 1HU 18xLC-D OM4	Module with 18 LC duplex OM4 adaptors violet; 3 rows with 6 adaptors each; full height (34 mm)

For loose tube cables.
Integrated splice cassette with splice holder for crimp and micro heat shrink splice protectors; modules come pre-loaded with pigtails.
Slots in 1 HU panels also accept two modules of half height stacked upon each other.
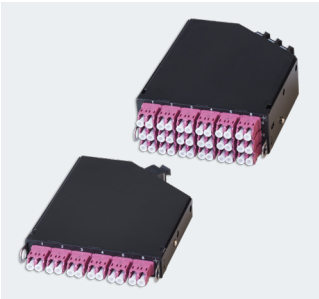Please order splice protectors separately.

Order no.	Description	Remarks
H02050A4023	HD³ splice module 0.5HU 6xLC-D/PC OS2	Module with 6 LC duplex/PC OS2 adaptors blue; pigtails included; half height (17 mm)
H02050A4024	HD³ splice module 0.5HU 6xLC-D/APC OS2	Module with 6 LC duplex/APC OS2 adaptors green; pigtails included; half height (17 mm)
H02050A4021	HD³ splice module 0.5HU 6xLC-D OM3	Module with 6 LC duplex OM3 adaptors aqua; pigtails included; half height (17 mm)
H02050A4022	HD³ splice module 0.5HU 6xLC-D OM4	Module with 6 LC duplex OM4 adaptors violet; pigtails included; half height (17 mm)

With MPO/MTP® adaptors at the back.
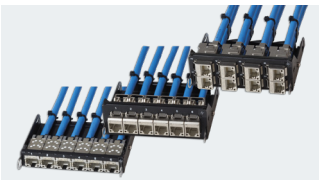Modules come with installed Fan Out kit MPO/MTP®-LC.
Slots in 1 HU panels also accept two modules of half height stacked upon each other.

Order no.	Description	Remarks
H02050A4011	HD³ FanOut module 0.5HU 6xLC-D OM3	Module with 6 LC duplex OM3 adaptors aqua at the front and 1 MPO/MTP® adaptor at the back; half height (17 mm)
H02050A4012	HD³ FanOut module 0.5HU 6xLC-D OM4	Module with 6 LC duplex OM4 adaptors violet at the front and 1 MPO/MTP® adaptor at the back; half height (17 mm)
H02050A4015	HD³ FanOut module 1HU 18xLC-D OM3	Module with 18 LC duplex OM3 adaptors aqua (3 rows of 6 adaptors each) at the front and 3 MPO/MTP® adaptors at the back; full height (34 mm)
H02050A4016	HD³ FanOut module 1HU 18xLC-D OM4	Module with 18 LC duplex OM4 adaptors violet (3 rows of 6 adaptors each) at the front and 3 MPO/MTP® adaptors at the back; full height (34 mm)

Accept STX or AMJ-S/AMJ Cat. 8.1 RJ45 jacks for twisted pair cables. STX RJ45 jacks can be mixed in the same HD³ module as can AMJ-S and AMJ Cat. 8.1 in the appropriate modules. Slots in 1 HU panels also accept two modules of half height stacked upon each other.
Please order RJ45 jacks separately.

Order no.	Description	Remarks
H02025A4011	HD³ module 0.5HU for 6x RJ45 STX	Module accepts up to 6 RJ45 jacks type STX; half height (17 mm)
H02025A4012	HD³ module 1HU for 6x RJ45 AMJ-S/AMJ Cat.8.1	Module accepts up to 6 RJ45 jacks type AMJ-S/AMJ Cat. 8.1; full height (34 mm)
H02025A4013	HD³ module 1HU for 8x RJ45 AMJ-S/AMJ Cat.8.1	Module accepts up to 8 RJ45 jacks type AMJ-S/AMJ Cat. 8.1; full height (34 mm)

Modules

HD³ Modules for Coaxial Cables

Modules come with coaxial adaptors already mounted.
Slots in 1 HU panels also accept two modules of half height stacked upon each other.

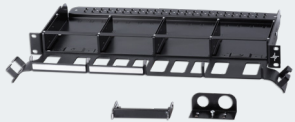|	Order no.	Description	Remarks
	H02025A4009	HD³ module 0.5HU 6x SMA	Module with 6 SMA 50 Ω adaptors; half height (17 mm)
	H02025A4010	HD³ module 1HU 6x BNC	Module with 6 BNC 75 Ω adaptors; full height (34 mm)

HD³ Modular Patch Panels

Accept HD³ modules of half or full height.
The modules can be installed from the front and from the back; different kinds of modules can be mixed in the same panel.
Slots in 1 HU panels also accept two modules of half height stacked upon each other.

	Order no.	Description	Remarks
	H02030A4050	HD³ panel 0.5 HU	0.5 HU, with 4 slots for modules of half height
	H02030A4049	HD³ panel 1 HU	1 HU, with 4 slots for modules of full height; accepts up to 4 modules of full height or 8 modules of half height or a combination of both
	H02032A4027	HD³ panel 3 HU	3 HU, with 12 slots for modules of full height; accepts up to 12 modules of full height or 24 modules of half height or a combination of both

Accessories

To customize the patch panels and for even more convenient installation and patching.

	Order no.	Description	Remarks
	H02025A4008	HD³ module 0.5HU − blank	Blanking panel of half height to cover unpopulated slots in patch panels; for a slot of full height, two blanks of half height are used
	H02025A4006	Standard cable management (D = 90 mm)	Pluggable cable management, depth = 90 mm, for neat and easy patch cord management; no tools required to install or remove the management; 4x label holder H10000A4001 incl.
	H10000A4001	Label holder for cable management L = 100 mm	Label holder made of metal, length is 100 mm; can be clicked on the front of the standard cable management; standard cable management accepts up to 4 label holders
	H06000A0079	M20/M25 mounting bracket for 1 HU and 3 HU HD panels	For securely fixing ODS/M20 and ODS/M25 cable splitters of pre-terminated cables; also accepts M20 and M25 cable glands
	L00040A0123	Bonding set for HD modules L = 150 mm	For reliable bonding of modules for copper cables; length is 150 mm
	N00010A0002	HD³ module removal tool	For easy and convenient removal of HD³ modules in fully populated patch panels

RJ45 Jacks and Coupler

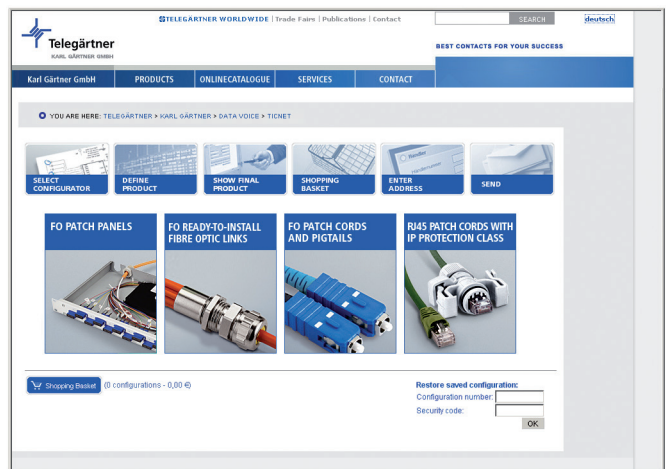To be installed in HD³ modules for RJ45 jacks and coupler.

	Order no.	Description	Remarks
	J80029A0000	STX RJ45 Module A Cat.6$_A$	For HD³ module H02025A4011
	J80029A0001	STX RJ45 Module B Cat.6$_A$	For HD³ module H02025A4011
	J80029A0010	STX RJ45 Coupler Cat.6 Class E$_A$	For HD³ module H02025A4011
	J00029A2000	AMJ-S Module Cat.6$_A$ T568A	UL listed; for HD³ module H02025A4012 and H02025A4013
	J00029A2110	AMJ-S Module Cat.6$_A$ T568A	UL listed; for HD³ module H02025A4012 and H02025A4013; Blister package of 24 modules
	J00029A2001	AMJ-S Module Cat.6$_A$ T568B	UL listed; for HD³ module H02025A4012 and H02025A4013
	J00029A2111	AMJ-S Module Cat.6$_A$ T568B	UL listed; for HD³ module H02025A4012 and H02025A4013; Blister package of 24 modules
	J00029A8000	AMJ Module Cat.8.1 T568A/B	For HD³ module H02025A4012 and H02025A4013

Designed to make things simpler for pre-assembled solutions: the TICNET configurator

The TICNET configurator is a convenient and quick way of ordering preassembled cabling components from the factory. Just follow six simple steps to order the product you need:

1. **Select Type of product**
2. **Define product**
3. **Check final product**
4. **Add product to shopping basket**
5. **Enter address details**
6. **Send inquiry**

Whether you need copper or optical fiber products, cables or patch panels, solutions for office buildings, data centers, industrial facilities or home networks: the TICNET configurator service is available around the clock to inquire customised products. Naturally it is also possible to save your configurations.

Easy, quick and reliable: that's Telegärtner

www.telegaertner.com/ticnet

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Your distributor: