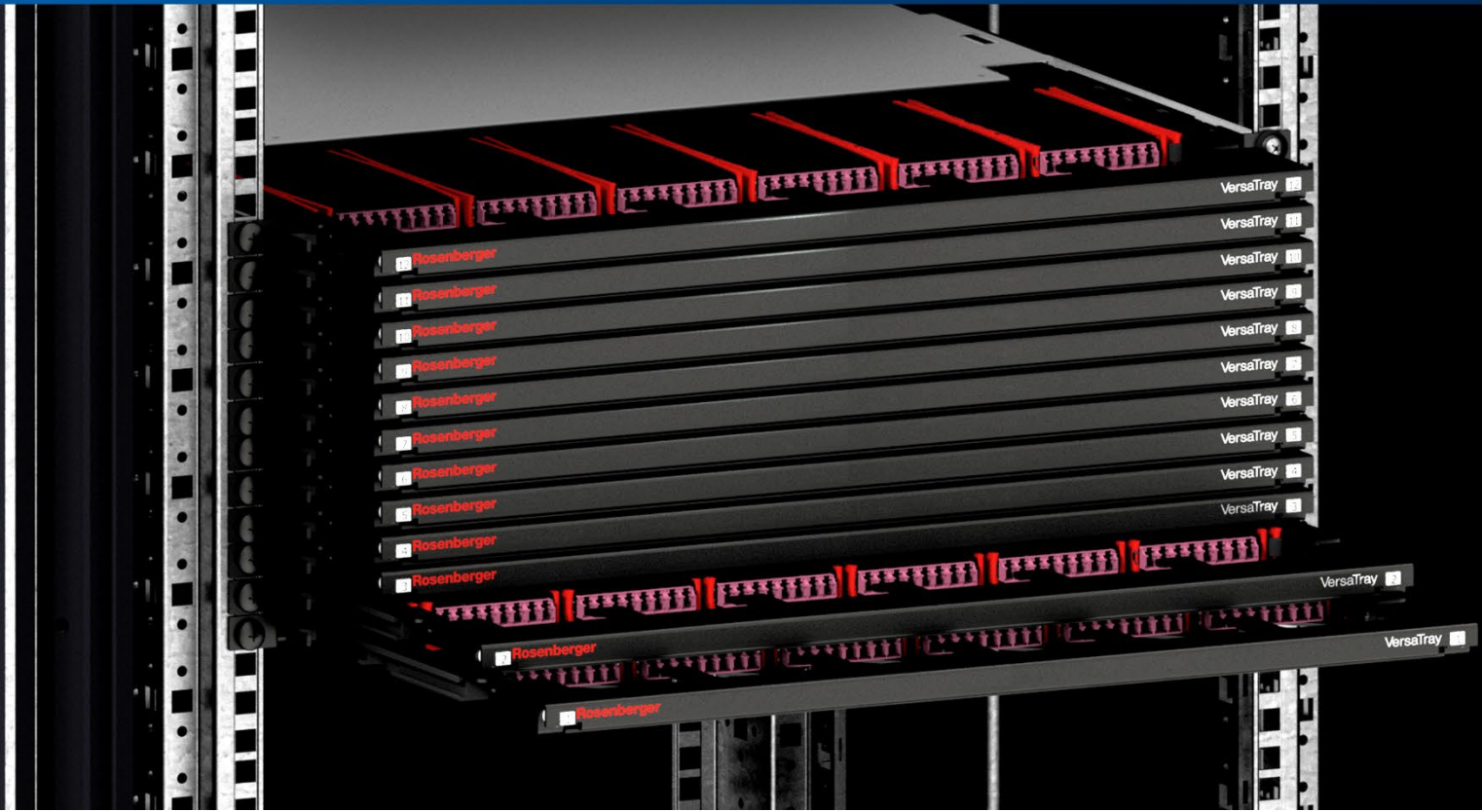


VersaTray – Tray System

PRODUCT INFORMATION



With VersaTray, Rosenberger OSI is now able to offer an outstandingly modular, easy-to-maintain 19" tray system for high-density cabling solutions in data centers. The forward-looking design opens up hitherto unexplored possibilities for accessing the interior of the rack and applying the pay-as-you-grow principle. Since the design is based on the use of extensible tray elements and 1/3 HU drawers, the overall height of the tray system can be individually adapted to meet specific customer requirements. Thanks to the overall system granularity of 1/3 HU, even the smallest installation spaces in the rack become productive.

The drawers have two pull-out positions to make the fiber-optic modules inside them more accessible than in the past. The drawers can also be completely removed from the unit thanks to an innovative, easy-to-operate unlock mechanism. The drawer widths are subdivided 4/4 and 6/6, making it possible to accommodate modules of two different sizes. Both types of module are available as MTP®/MPO modules, coupler modules or alternatively as splice modules and can be equipped with all standard couplers (LC, SC, MDC, SN®, MTP®, MDC, E-2000®).

No tools are needed when installing the modules thanks to the use of a uniquely designed leaf spring system. What is more, the modules can be installed from the front, back, top and even at an angle. Handling is greatly simplified by the fact that there is no need to align the modules precisely with their mounts. The patchcords are guided by height unit-independent patchcord guides which are located at the front of every module. In addition to the fiber-optic connection technology variants listed above, VersaTray also supports the transfer of electrical signals. The drawer developed for this function measures 2/3 HU and possesses mounts for RJ45 keystone modules as well as for keystone modules for fiber-optic signal transmission.

Characteristics:

- Optimized access to the inside of the rack from the front of the rack thanks to innovative drawer support elements
- Overall system extensible to accommodate any number of height units (HU) in steps of 1/3 HU (pay-as-you-grow)
- The drawers are partially and fully retractable and can also be removed without the need for tools if required.
- In the 1/3 HU design, the width of the drawers is subdivided 4/4 and 6/6 for the accommodation of fiber-optic modules
- In the 2/3 HU variant, the drawers possess mounts for RJ45 and fiber-optic keystone modules
- The unique leaf spring system makes it possible to insert and remove fiber-optic modules from the front, back, top and even at an angle of the mounts
- Fiber-optic modules are available as MTP®/MPO modules, coupler modules and splice modules (single and ribbon fibers) for both the 4/4 and 6/6 drawer width layouts
- Drawers with built-in height unit-independent patchcord guides
- A trunk support can be installed independently of the usual distribution system and can be subsequently extended in steps of 1 HU, 2 HU and 4 HU
- Port density:

	1/3 HU		1 HU kit	
	Ports	Fibers	Ports	Fibers
LC duplex	24	48	72	144
SN®	48	96	144	288
MDC	72	144	216	432
SC duplex	8	16	24	48
E-2000®	16	16	48	48
MTP® OCTO	24	192	72	576
MTP® SEDECIM	24	384	72	1152

Applications:

- Server and whitespace rooms with 19" panel systems in data centers
- Meet-me rooms and distribution in colocation data centers and telecoms applications with splice capability for single and ribbon fibers.
- Server rooms with a very wide variety of packing densities, whether flexible with low-density or with high-density cabling
- Suitable for spine-leaf architectures
- For all IT applications such as Ethernet and Fiber Channel

The benefits at a glance:

Service-friendly installation

- Can be installed by one person
- Shorter access distances thanks to optimized access to the rack interior from the front of the rack
- Fewer work operations thanks to the possibility of installing trunks directly and in the separate trunk holder
- Outstanding ease of access to modules and ports thanks to multiple drawer pull-out positions and the possibility of removing the drawers.
- The unique leaf spring system makes it possible to insert and remove fiber-optic modules from the front, back, top and even at an angle.
- Use of shuttered LC and MTP® couplers for the fast, reliable installation of patchcords
- Reduced cable volume thanks to matching VersaTray I-F divider trunks
- Optimized cable management thanks to the possibility of fixing the I-F dividers of matching VersaTray trunks directly in the coupler modules.

Exceptional versatility and modularity

- Can be equipped and combined with all standard couplers
- Integration of splice solutions for single and ribbon fibers
- Integration of RJ45 and fiber-optic keystone modules
- Fiber-optic modules for 4/4 and 6/6 width layouts make it possible to choose the number of ports per module
- Modules are available as MTP®/MPO modules, coupler modules, splice modules or blank modules

Modular system (pay-as-you-grow)

- The entire system can be constructed using 1/3 HU basic elements
- Individual modules can be added or replaced
- The trunk support can be extended in steps of 1 HU, 2 HU and 4 HU

The VersaTray system

This is an outstandingly modular, extremely service-friendly 19" tray system for high-density data cabling in data centers.

Port density:

72 LC duplex or MTP® OCTO ports per height unit (HU), 24 ports per 1/3 HU tray system
 144 SN® ports per HU, 48 ports per 1/3 HU tray system
 216 MDC ports per HU, 72 ports per 1/3 HU tray system

VersaTray consists of:

- 19" 1/3 HU tray system in 4/4 or 6/6 width layout
- Right-hand and left-hand tray element
- 1 HU trunk and cable tray
- Individually mountable trunk support can be extended in steps of 1 HU, 2 HU and 4 HU
- MTP®/MPO module, coupler module, splice module, blank module

1/3 HU tray system

- with 6/6 width layout: To accommodate 6 MTP®/MPO modules, each with 4 LC duplex ports (8 fibers) or coupler plug-ins, each with 4 LC duplex ports (8 fibers) or 4 MTP® ports
- with 4/4 width layout: To accommodate 4 MTP®- MTP®/MPO modules, each with 6 LC duplex ports (12 fibers) or coupler plug-ins, each with 6 LC duplex ports (12 fibers) or 6 MTP® ports

1/3 tray systems can be equipped with modules from the front, top, at an angle without the need for tools. They can be pulled out to two positions without tools and can also be fully removed for maintenance.

Front-mounted, integrated height unit-independent patchcord guide at 1/3 HU drawers. Fold up and open to insert and remove the patchcords. The patchcords are protected by the folding front cover.

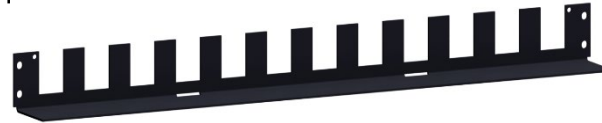


Back planes, steel powder coated RAL9005 black:

blind back plane
part number 170A1501



with 12 PreCONNECT® square interfaces
part number 170A1502



Z back plane with 2 PreCONNECT® square interfaces on the left, cable routing towards inside. Universal fixing of cables with cable ties on the right.
part number 170A1515



Modular back plane 2x3
 Right and left one toolless mountable plate with each 3 PreCONNECT® square interfaces.
 3 fixed PreCONNECT® square interfaces in the center.
part number 170A1520



Modular back plane 4x1
 4 toolless mountable plate with each 1 PreCONNECT® square interface.
part number 170A1521



Z back plane with 4 PreCONNECT® square interfaces cable routing towards inside
part number 170A1512



Z back plane with 4 PreCONNECT® square interfaces cable routing towards outside
part number 170A1516



For universal fixing of cables with cable ties
part number 170A1507



Z back plane with 2 PreCONNECT® square interfaces on the right, cable routing towards inside. Universal fixing of cables with cable ties on the left.
part number 170A1517



Back planes, steel powder coated RAL9005 black:

With 8 holes diameter 29mm fitting for PG21 cable glands

part number 170A1504



Z back plane with 2 PreCONNECT® square interfaces on the left, cable routing towards outside. Universal fixing of cables with cable ties on the right.

part number 170A1518



Z back plane with 2 PreCONNECT® square interfaces on the right, cable routing towards outside. Universal fixing of cables with cable ties on the left.

part number 170A1519



1/3 HU 19" tray system

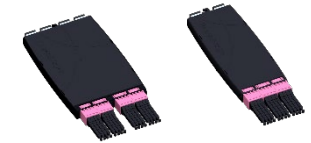
Material and colour:

- Trays and holder at rack: steel, CDC-coated, black
- Modules, coupler modules and splice modules: plastic, black
- Trunk holder: steel, CDC-coated, black



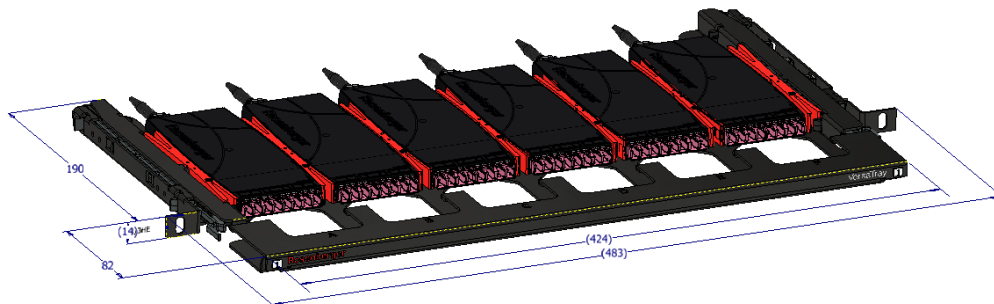
Weight:

One of the most lightweight tray systems of its kind. Can be installed by a single person thanks to the open screw holes in the right-hand and left-hand tray elements. 3 x 1/3 HU drawers and trunk management, without modules 4.2 kg



- 1/3 trays for 1/4 modules or coupler modules: 1200gr
- 1/3 trays for 1/6 modules or coupler modules: 1250gr
- 1 HU kit (2/3 HU + 1/3 HU) side holder for trays at the rack: 4200gr
- 1 HU trunk and cable tray with integrated cable guide: 1650gr

Dimensions:



Ordering data:

Tray systems & trunk and cable tray:

1/3 HU tray system
(empty, including the separate L-shaped tray elements)



1 HU kit (2/3 HU + 1/3 HU) tray system
(empty, including the separate L-shaped tray elements)

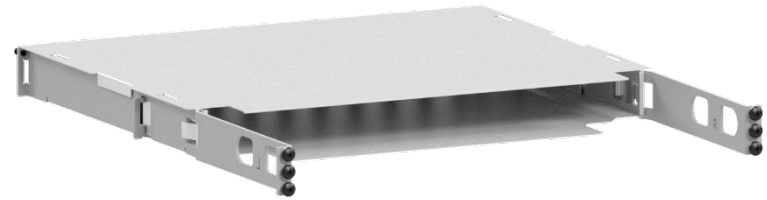


Delivery status 2/3 HU connected + 1/3 HU

1 HU trunk and cable tray for installation below the VersaTray system



1 HU trunk and cable tray for installation behind the VersaTray system



Region	Order number	Description
EU	ETSVTU3C6B	VersaTray Tray System 1/3 HU for modules with 6/6 width layout, black, empty
EU	ETSVT1UC6B	VersaTray Tray System 1 HU kit for 3 x 1/3 drawers with 6/6 width layout, black, empty
EU	ETSVTU3C4B	VersaTray Tray System 1/3 HU for modules with 4/4 width layout, black, empty
EU	ETSVT1UC4B	VersaTray Tray System 1 HU kit for 3 x 1/3 drawers with 4/4 width layout, black, empty
EU	EYVTTCH1UDBO8	VersaTray cable tray & back plane 1 HU to accommodate 12 trunks behind the drawers, black
EU	EYVTTCH1UDBO08	VersaTray cable tray & back plane 1 HU to accommodate 12 trunks below the drawers, black
EU	EYVT2UTEXM	VersaTray 2-HU trunk holder extension, black
EU	EYVT4UTEXM	VersaTray 4-HU trunk holder extension, black
EU	EYVTNUTCM	VersaTray cover for trunk holder
EU	EYVTBPH	VersaTray frame extension, 1 HU

The modular system:

VersaTray can be assembled up to 4 HU or more in steps of 1/3 HU.
A further trunk holder is needed as of 4 HU.

Example: 4 HU VersaTray modular system



Modules:

Installation on trays:

- Fast, simple installation via spring system without the need for precise alignment and without fixed rail system.
- Modules and coupler modules can be installed from the front, back, top and even the sides.

System options:

- MTP® module to LC, SN® or MDC
- Coupler module: Unit with couplers for the direct connection of trunks
- Splice module: Option for splicing with single fibers or ribbon fibers

Dimensions:

- Width: 1/6 and 1/4 width division
- Height: 1/3 HU
- Depth: 140 mm

Polarity for MTP® modules to LC, MDC, SN®

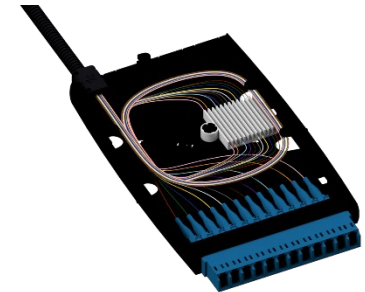
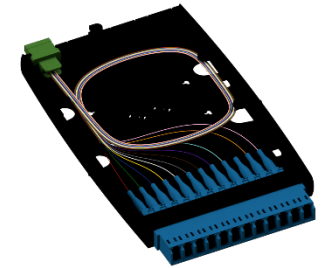
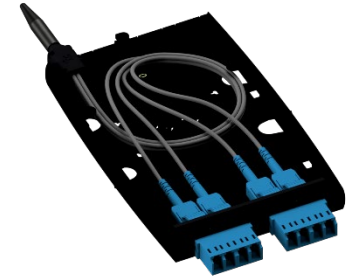
- Rx to Tx
- MTP® without pins on back: OM4 MTP® coupler type B “aligned key”, grey, singlemode MTP® connector type A, “opposed key”, green

Fiber options:

- From 8F and 12F in singlemode and OM4

Coupler characteristics

- Shuttered MTP® connections with integrated dust protection closure for one-handed installation.
- Shuttered LC connections with integrated dust protection closure for one-handed installation and to ensure the safety of installation personnel when plugging in individual fibers.
- MTP® and LC connections have VFL (Visual Fault Locator) transparency level
- Singlemode blue, singlemode APC green and OM4 purple



Module overview:

MTP®/MPO module, coupler module, splice module, blank module

1/4 width division:



Available module types	Blank module	6x MTP®	12F LC	32 F MDC	24 F SN®	4F E-2000®	4F SC
Module to MTP®		x	x	x	x		
Coupler module		x	x	x	x	x	x
Splice module		x	x				

1/6 width division:



Available module types	Blank module	8F LC	16F SN®	24F MDC	4x MTP®
Module to MTP®		x	x	x	
Coupler module		x	x	x	x
Splice module					

Ordering data for modules:

Region	Order number	Description	Product	Con- nector system, front	Connector system, back	Size	Fiber count	Fiber type
EU	EMVT34BB12SMORLTBS	VersaTray module 12F SM, blue LC connectors with internal shutter to MTP® opposed key connection, green, 1/3 HU, 1/4 width, black	Module	LC	MTP®	1/4	12	SM
EU	EMVT34BB12SMORLTGS	VersaTray module 12F SM, green LC connectors with internal shutter to MTP® opposed key connection, green, 1/3 HU, 1/4 width, black	Module	LC	MTP®	1/4	12	SM
EU	EMVT34BB12CMAGLTAS	VersaTray module 12F OM4, aqua LC connectors with internal shutter to MTP® aligned key connection, grey, 1/3 HU, 1/4 width, black	Module	LC	MTP®	1/4	12	OM4
EU	EMVT34BB12CMAGLTVS	VersaTray module 12F OM4, purple LC connectors with internal shutter to MTP® aligned key connection, grey, 1/3 HU, 1/4 width, black	Module	LC	MTP®	1/4	12	OM4
EU	EMVT36BB08SMORLEBS	VersaTray module 8F SM, blue LC connectors with internal shutter to MTP® opposed key connection, green, 1/3 HU, 1/6 width, black	Module	LC	MTP®	1/6	8	SM
EU	EMVT36BB08SMORLEGS	VersaTray module 8F SM, green LC connectors with internal shutter to MTP® opposed key connection, green, 1/3 HU, 1/6 width, black	Module	LC	MTP®	1/6	8	SM
EU	EMVT36BB08CMAGLEAS	VersaTray module 8F OM4, aqua LC connectors with internal shutter to MTP® aligned key connection, green, 1/3 HU, 1/6 width, black	Module	LC	MTP®	1/6	8	OM4
EU	EMVT36BB08CMAGLEVS	VersaTray module 8F OM4, purple LC connectors with internal shutter to MTP® aligned key connection, grey, 1/3 HU, 1/6 width, black	Module	LC	MTP®	1/6	8	OM4
EU	EMVT34BB24SMORSNB	VersaTray module 24F SM, blue SN® connectors to MTP® opposed key connection, green, 1/3 HU, 1/4 width, black	Module	SN®	MTP®	1/4	24	SM
EU	EMVT34BB24SMORSNG	VersaTray module 24F SM, green SN® connectors to MTP® opposed key connection, green, 1/3 HU, 1/4 width, black	Module	SN®	MTP®	1/4	24	SM
EU	EMVT34BB24CMAGSNA	VersaTray module 24F OM4, aqua SN® connectors to MTP® aligned key connection, grey, 1/3 HU, 1/4 width, black	Module	SN®	MTP®	1/4	24	OM4
EU	EMVT34BB24CMAGSNV	VersaTray module 24F OM4, purple SN® connectors to MTP® aligned key connection, grey, 1/3 HU, 1/4 width, black	Module	SN®	MTP®	1/4	24	OM4
EU	EMVT36BB16SMORSNB	VersaTray module 16F SM, blue SN® connectors to MTP® opposed key connection, green, 1/3 HU, 1/6 width, black	Module	SN®	MTP®	1/6	16	SM
EU	EMVT36BB16SMORSNG	VersaTray module 16F SM, green SN® connectors to MTP® opposed key connection, green, 1/3 HU, 1/6 width, black	Module	SN®	MTP®	1/6	16	SM
EU	EMVT36BB16CMAGSNA	VersaTray module 16F OM4, aqua SN® connectors to MTP® aligned key connection, grey, 1/3 HU, 1/6 width, black	Module	SN®	MTP®	1/6	16	OM4
EU	EMVT36BB16CMAGSNV	VersaTray module 16F OM4, purple SN® connectors to MTP® aligned key connection, grey, 1/3 HU, 1/6 width, black	Module	SN®	MTP®	1/6	16	OM4

Region	Order number	Description	Product	Con- nector system, front	Connector system, back	Size	Fiber count	Fiber type
EU	EMVT34BB32SMORMDB	VersaTray module 32F SM, blue MDC connectors to MTP® opposed key connection, green, 1/3 HU, 1/4 width, black	Module	MDC	MTP®	1/4	32	SM
EU	EMVT34BB32SMORMDG	VersaTray module 32F SM, green MDC connectors to MTP® opposed key connection, green, 1/3 HU, 1/4 width, black	Module	MDC	MTP®	1/4	32	SM
EU	EMVT34BB32CMAGMDA	VersaTray module 32F OM4, aqua MDC connectors to MTP® aligned key connection, grey, 1/3 HU, 1/4 width, black	Module	MDC	MTP®	1/4	32	OM4
EU	EMVT34BB32CMAGMDV	VersaTray module 32F OM4, purple MDC connectors to MTP® aligned key connection, grey, 1/3 HU, 1/4 width, black	Module	MDC	MTP®	1/4	32	OM4
EU	EMVT36BB24SMORMDB	VersaTray module 24F SM, blue MDC connectors to MTP® opposed key connection, green, 1/3 HU, 1/6 width, black	Module	MDC	MTP®	1/6	24	SM
EU	EMVT36BB24SMORMDG	VersaTray module 24F SM, green MDC connectors to MTP® opposed key connection, green, 1/3 HU, 1/6 width, black	Module	MDC	MTP®	1/6	24	SM
EU	EMVT36BB24CMAGMDA	VersaTray module 24F OM4, aqua MDC connectors to MTP® aligned key connection, grey, 1/3 HU, 1/6 width, black	Module	MDC	MTP®	1/6	24	OM4
EU	EMVT36BB24CMAGMDV	VersaTray module 24F OM4, purple MDC connectors to MTP® aligned key connection, grey, 1/3 HU, 1/6 width, black	Module	MDC	MTP®	1/6	24	OM4

Region	Order number	Description	Product	Con- nector sys- tem, front	Con- nector sys- tem, back	Size	Fiber count	Fiber type
EU	EAVT34B12LTBS	VersaTray coupler module 12F SM, blue LC connectors with internal shutter, 1/3 HU, 1/4 width, black	Coupler module	LC	-	1/4	12	SM
EU	EAVT34B12LTGS	VersaTray coupler module 12F SM, green LC connectors with internal shutter, 1/3 HU, 1/4 width, black	Coupler module	LC	-	1/4	12	SM
EU	EAVT34B12LTAS	VersaTray coupler module 12F OM4, aqua LC connectors with internal shutter, 1/3 HU, 1/4 width, black	Coupler module	LC	-	1/4	12	OM4
EU	EAVT34B12LTVS	VersaTray coupler module 12F OM4, purple LC connectors with internal shutter, 1/3 HU, 1/4 width, black	Coupler module	LC	-	1/4	12	OM4
EU	EAVT36B08LEBS	VersaTray coupler module 08F SM, blue LC connectors with internal shutter, 1/3 HU, 1/6 width, black	Coupler module	LC	-	1/6	8	SM
EU	EAVT36B08LEGS	VersaTray coupler module 08F SM, green LC connectors with internal shutter, 1/3 HU, 1/6 width, black	Coupler module	LC	-	1/6	8	SM
EU	EAVT36B08LEAS	VersaTray coupler module 08F OM4, aqua LC connectors with internal shutter, 1/3 HU, 1/6 width, black	Coupler module	LC	-	1/6	8	OM4
EU	EAVT36B08LEVS	VersaTray coupler module 08F OM4, purple LC connectors with internal shutter, 1/3 HU, 1/6 width, black	Coupler module	LC	-	1/6	8	OM4
EU	EAVT34B72MOR	VersaTray coupler module 72F SM, green MTP® connectors, 1/3 HU, 1/4 width, black	Coupler module	MTP®	-	1/4	72	SM
EU	EAVT34B72MOG	VersaTray coupler module 72F OM4, grey MTP® connectors, 1/3 HU, 1/4 width, black	Coupler module	MTP®	-	1/4	72	OM4
EU	EAVT34B72MOV	VersaTray coupler module 72F OM4, purple MTP® connectors, 1/3 HU, 1/4 width, black	Coupler module	MTP®	-	1/4	72	SM
EU	EAVT36B48MOR	VersaTray coupler module 48F SM, green MTP® connectors, 1/3 HU, 1/6 width, black	Coupler module	MTP®	-	1/6	48	OM4
EU	EAVT36B48MOG	VersaTray coupler module 48F OM4, grey MTP® connectors, 1/3 HU, 1/6 width, black	Coupler module	MTP®	-	1/6	48	SM
EU	EAVT36B48MOV	VersaTray coupler module 48F OM4, purple MTP® connectors, 1/3 HU, 1/6 width, black	Coupler module	MTP®	-	1/6	48	OM4

Region	Order number	Description	Product	Con- nector system, front	Con- nector sys- tem, back	Size	Fiber count	Fiber type
EU	EAVT34B04SDB	VersaTray coupler module 4F SM, blue SC duplex connectors, 1/3 HU, 1/4 width, black	Coupler module	SC	-	1/4	4	SM
EU	EAVT34B04SDG	VersaTray coupler module 4F SM, green SC duplex connectors, 1/3 HU, 1/4 width, black	Coupler module	SC	-	1/4	4	SM
EU	EAVT34B24SNB	VersaTray coupler module 24F SM, blue SN® connectors, 1/3 HU, 1/4 width, black	Coupler module	SN®	-	1/4	24	SM
EU	EAVT34B24SNG	VersaTray coupler module 24F SM, green SN® connectors, 1/3 HU, 1/4 width, black	Coupler module	SN®	-	1/4	24	SM
EU	EAVT34B24SNA	VersaTray coupler module 24F OM4, aqua SN® connectors, 1/3 HU, 1/4 width, black	Coupler module	SN®	-	1/4	24	OM4
EU	EAVT34B24SNV	VersaTray coupler module 24F OM4, purple SN® connectors, 1/3 HU, 1/4 width, black	Coupler module	SN®	-	1/4	24	OM4
EU	EAVT36B16SNB	VersaTray coupler module 16F SM, blue SN® connectors, 1/3 HU, 1/6 width, black	Coupler module	SN®	-	1/6	16	SM
EU	EAVT36B16SNG	VersaTray coupler module 16F SM, green SN® connectors, 1/3 HU, 1/6 width, black	Coupler module	SN®	-	1/6	16	SM
EU	EAVT36B16SNA	VersaTray coupler module 16F OM4, aqua SN® connectors, 1/3 HU, 1/6 width, black	Coupler module	SN®	-	1/6	16	OM4
EU	EAVT36B16SNV	VersaTray coupler module 16F OM4, purple SN® connectors, 1/3 HU, 1/6 width, black	Coupler module	SN®	-	1/6	16	OM4
EU	EAVT34B32MDB	VersaTray coupler module 32F SM, blue MDC connectors, 1/3 HU, 1/4 width, black	Coupler module	MDC	-	1/4	32	SM
EU	EAVT34B32MDG	VersaTray coupler module 32F SM, green MDC connectors, 1/3 HU, 1/4 width, black	Coupler module	MDC	-	1/4	32	SM
EU	EAVT34B32MDA	VersaTray coupler module 32F OM4, aqua MDC connectors, 1/3 HU, 1/4 width, black	Coupler module	MDC	-	1/4	32	OM4
EU	EAVT34B32MDV	VersaTray coupler module 32F OM4, purple MDC connectors, 1/3 HU, 1/4 width, black	Coupler module	MDC	-	1/4	32	OM4
EU	EAVT36B24MDB	VersaTray coupler module 24F SM, blue MDC connectors, 1/3 HU, 1/6 width, black	Coupler module	MDC	-	1/6	24	SM
EU	EAVT36B24MDG	VersaTray coupler module 24F SM, green MDC connectors, 1/3 HU, 1/6 width, black	Coupler module	MDC	-	1/6	24	SM
EU	EAVT36B24MDA	VersaTray coupler module 24F OM4, aqua MDC connectors, 1/3 HU, 1/6 width, black	Coupler module	MDC	-	1/6	24	OM4
EU	EAVT36B24MDV	VersaTray coupler module 24F OM4, purple MDC connectors, 1/3 HU, 1/6 width, black	Coupler module	MDC	-	1/6	24	OM4
EU	EAVT34B03E2G	VersaTray coupler module 4F SM, green E-2000® connectors, 1/3 HU, 1/4 width, black	Coupler module	E-2000®	-	1/4	4	SM

About Rosenberger OSI

Ever since 1991, Rosenberger **Optical Solutions & Infrastructure** (Rosenberger OSI) has been an acknowledged expert in the field of optical fiber-based connection technology, cabling solutions and infrastructure services for data centers, LANs, wireless networks and industrial applications. As an integrated solution provider, we have considerable development expertise and excel in the operational production of system solutions for communications networks. Our comprehensive services permit the secure, efficient operation of digital infrastructures. This combination combined with our commitment to our customers makes us unique and a strong partner in the global market.

Since 1998, Rosenberger OSI has been part of the globally active Rosenberger Group, one of the world's leading suppliers of high-frequency, high-voltage and fiber-optic connection solutions which has its head office in Germany.

For more information, go to: www.rosenberger.com/osi

Rosenberger

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