

### **CONNECT AND PROTECT**

# EuropacPRO Rugged



## nvent schroff

### Subracks - EuropacPRO Rugged

#### **OVERVIEW**

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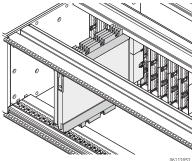
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06112020



"rugged" horizontal rail with 3 hole fixing for increased stability (+60 % compared to 2 hole fixing of "heavy" horizontal rail)



Special adaptor rails allow conducted cooled assemblies to be fitted



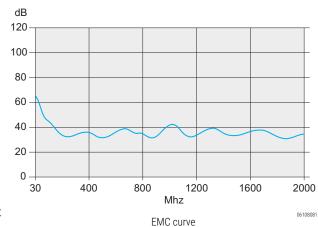
Shock and vibration resistant in all three axial directions

#### Standards/Approvals

- Internal and external dimensions in accordance with: IEC 60297-3-100, -101, -102, -103, -104, -105, IEEE 1101.1, IEEE 1101.10/11
- Type of protection IP 20, in accordance with IEC 60529
- EMC testing to IEC 61587-3
- Shock and vibration test report; MIL 167, IEC 61587 DL 3, MIL 810 G, MIL 901 D

#### Note

- · Other finishes e.g. yellow chromated on request
- Subrack with telescopic slides can be adapted for cabinet mounting on request



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#### **OVERVIEW**

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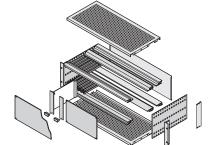
#### 19" SUBRACKS

- · Shock and vibration resistant up to 25 g
- · Kits or individually configured subracks
- A product and accessory platform for the most different customers' requirements and applications
- Suitable for CompactPCI and VMEbus insertion and extractor handles
- · EMC shielding can easily be retrofitted
- 3D PDF or CAD 3D data available for download



#### **Kits**

- · All required parts are available under one part number, even partly assembled
- Most popular versions and dimensions available from stock
- · For installed loads up to 25 kg
- · Supplied as a space-saving flat pack



#### ServicePLUS individual configuration

- Single parts may individually be configured, respectively assembled on request (from quantity 1)
- · Wide range of variants in heigth, width and depth
- · Guide rails for different applications
- · EMC shielding material to improve EMC performance
- · Other accessories and assembly kits

**ServicePLUS** 

e.g. modification (cut-outs)

e.g. downloads (CAD drawings, user manuals, test reports)

e.g. custom solutions (special depths, electromagnetically shielded applications)

Individual		
configuration .	• •	6.97

ServicePLUS	6.95
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obile railway	
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### KIT, RUGGED, SHIELDED,





- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz (as per VG 95373, part 15), on condition that the front is closed with sealed front panels
- Shock and vibration resistant to 25 g

#### **DELIVERY COMPRISES (Kit)**

14	04		Description
Item	Qty		Description
	3 U	6 U	
1	2	2	Side panel type R, Al, 3 mm, clear passivated, with 19" support bracket 3.5 mm (tox-cold welded); for EMC gasketing (textile)
2	2	2	Front handle incl. fixing material kit
3	2	2	Rear corner profile for EMC gasketing (textile)
4	1	-	Front horizontal rail (R-KD)
4a	1	2	Front horizontal rail (R-LD)
4b	2	2	Rear horizontal rail (H-KD)
4c	2	2	Rear horizontal rail, centre (R-ST)
4d	-	1	Rear horizontal rail, centre (ST)
5	6	8	Threaded insert (pre-fitted)
6	2	2	Perforated strip (pre-fitted)
7	2	4	Insulation strip (pre-fitted)
8	2	2	EMC cover plate, rugged, with top cover locking
9	1	1	EMC rear panel
10	1	1	EMC gasketing material, fixing material kit, user manual

#### ORDER INFORMATION

Width

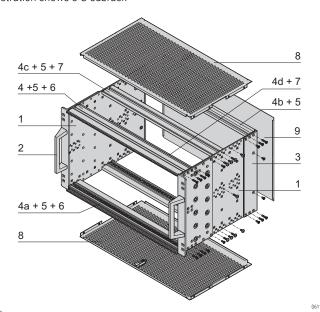
3	84	295	175	24567-149
6	84	295	175	24567-449
Accessorie	s			
Guide rails, PC, UL 94 V	24568-361			
Torx panher PU 100 piec	24560-141			
ESD clip for	guide rails PU 5	50 pieces		24560-255
Guide rail ad groove widt 1 piece (SPI	on, <b>34562-881</b>			
Torx pan he 100 pieces;	24560-157			
Adaptor to a (CCA) for VI fixing mater	24566-004			
Adaptor to a CompactPC PU 1 pair; in	for 24566-005			
	9	suitable for a su and nuts), PU 1	brack with double kit	24566-109

#### NOTE

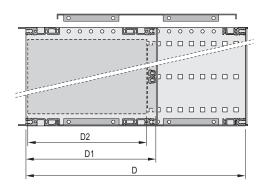
- Test reports online
- For further accessories see from page 6.19



Illustration shows 3 U subrack



6 U



D = overall depth, D1 = insertion depth, D2 = board depth = D1 - 15 mm



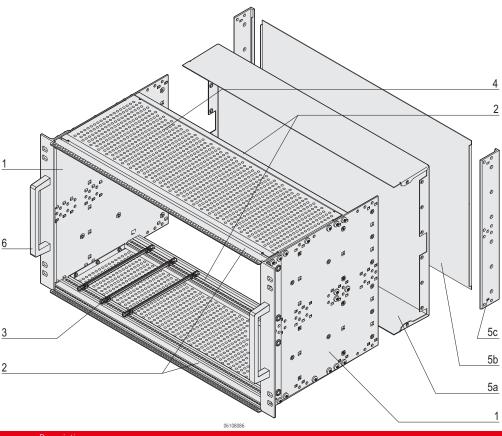
Rear horizontal rail for backplane mounting with insulation strip

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### OVERVIEW OF INDIVIDUAL COMPONENTS FOR SHIELDED OR UNSHIELDED SUBRACKS



Item	Description	Description	page
Item 1	Side panels	Establish the height and depth of the subrack; Al, 3 mm, with universal hole positions for mounting of accessories	6.97
Item 2	Horizontal rails	Establish the width of the subrack; Al extrusion, with defined hole positions for guide rails, grooves for threaded inserts, M4 thread at front, functional rail shapes, basically differing with regard to their mechanical loading capacity: rugged loading up to 15 kg	6.98
Item 3	Guide rails	Guide rails act as interface between subracks and boards, for different board formats, are available in plastic or metal, optionally codable and optionally can be fitted with ESD clip to allow electrostatic discharge	6.105
Item 4	Cover plates	Provide mechanical protection and/or EMC shielding and are perforated	6.108
Item 5	Rear/front	Rear hood (5a) or front panel (5b) with corner profile (5c) as support for EMC shielding gaskets used in conjunction with shielded front panels; Note: rear hood and corner profile cannot be fitted simultaneously	6.49
Item 6	Handles	Handles can be mounted on the 19" brackets	6.97
-	EMC shielding (without illustration)	Extensive component range for specific shielding of subrack according to your application	6.110
-	Internal mounting (without illustration)	Universal assemblies, e.g. for horizontal and vertical mounting and for mounting plates	6.109 6.60

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#### SIDE PANEL TYPE R, EMC SEALING, CORNER PROFILE, FRONT HANDLE

#### **ORDER INFORMATION**

	Side panel type R for textil		EMC textile gasket		Corner profile, rugged	Front handle
		gasket				
		Side panel, Al 3 mm, tox-cold welded with 19" Al bracket, 3.5 mm with handle hole, clear passivated, front anodised; please order front handles separately	Textile gasket, textile claddingwith UL 94 temperature rar	1 V-0,	a: Al extrusion, 3 mm, finish clear passivated; with lateral grooves for EMC stainless steel gasket; rear hood cannot be used simultaneously	Die-cast Al profile, powder-coated, RAL 9006; load-carrying capacity 30 kg, fixing material kit with Screw safety lacquer
Height	06112054 06112056 Depth					
U	mm	PU 1 pair	PU 10 pieces	PU 10 pieces	PU 1 pair	PU 1 kit
3	175	24568-145	·			
3	235	24568-147				
3	275	24568-143	21101-853	21102-853	24566-199	24566-010
3	277.75	24568-144	21101-853	21102-655	24500-199	24500-010
3	295	24568-149				
3	355	24568-151				
6	175	24568-445				
6	235	24568-447				
		24568-443				0.4566.010
6	275	24308-443	01101 OFF	01100 OFF		
6	275 277.75	24568-444	21101-855	21102-855	24566-499	24566-010
-	=: *		21101-855	21102-855	24566-499	24566-010
6	277.75	24568-444	21101-855	21102-855	24566-499	24566-010
6 6 6	277.75 295 355	24568-444 24568-449	21101-855	21102-855	24566-499	24566-010
6 6 6	277.75 295	24568-444 24568-449	21101-855	21102-855	24566-499	24566-010

Fixing material kits see page 6.103

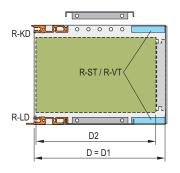
#### SIDE PANEL, TYPE R

- For high mechanical demands up to  $25\,g$  (vibration resistance, shock and vibration requirements to e.g. IEC 61587-DL 3)
- 19" bracket is fixed firmly to side panel (tox-cold welded)
- Height 3 U and 6 U
- Depths 175, 235, 275, 277.75, 295 and 355 mm
- EMC shielding concept for front/rear with EMC textile gasket
- Other dimensions on request

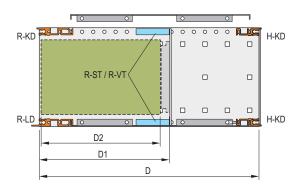


#### MOUNTING POSITION OF HORIZONTAL RAIL/CENTRAL RAILS

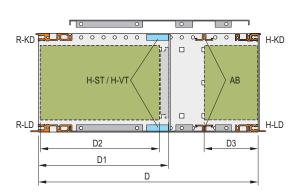
3 U (board depth 160, 220, 280 mm)



3 U (board depth 160, 220, 280 mm)



3 U (for CompactPCI/VME64x applications)

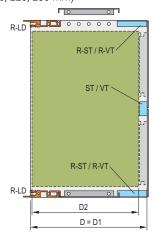


**Horizontal rails** R-ST



R-VT

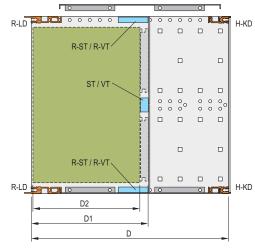
6 U (board depth 160, 220, 280 mm)



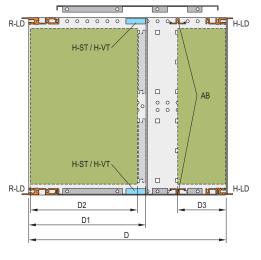
6 U (board depth 160, 220, 280 mm)

06112061

06112063



6 U (for CompactPCI/VME64x applications)



H-ST

06112065



06112066

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06112064

06112062

H-VT



#### **FRONT HORIZONTAL RAILS**

#### **ORDER INFORMATION**

		With long lip for insertion/ extraction of CompactPCI and VME64x boards	With long lip for insertion/ extraction of CompactPCI and VME64x boards	With short lip	With short lip
With HP markings from		"rugged" Type R-LD long lip  06112004 Al extrusion, anodised finish,	"heavy" Type H-LD long lip  061977009  Al extrusion, anodised finish,	"rugged" Type R-KD short lip  06112013  Al extrusion, anodised finish,	"heavy" Type H-KD short lip  06197008  Al extrusion, anodised finish,
Al extrusion, anodised fi conductive contact surfa Usable length	Length	conductive contact surface, with HP markings 1 piece (SPQ 10) <sup>1)</sup>	conductive contact surface, with HP markings 1 piece (SPQ 10) <sup>1)</sup>	conductive contact surface, with HP markings 1 piece (SPQ 10) <sup>1)</sup>	conductive contact surface, with HP markings  1 piece (SPQ 10) <sup>1)</sup>
HP	mm				
20	106.68	34566-320	34560-320	34566-220	34560-220
28	147.32	34566-328	34560-328	34566-228	34560-228
40	208.28	34566-340	34560-340	34566-240	34560-240
42	218.44		34560-342	34566-242	34560-242
63	325.12		34560-363	34566-263	34560-263
84	431.80	34566-384	34560-384	34566-284	34560-284
_	1000	34566-301	34560-301	34566-201	34560-201
Cover strips to cover the horizontal rail perforations Al, untreated, 0.8 mm length 431.5 mm, 1 piece (SPQ 10)		34566-301 34566-184	34560-301 _	34566-201 34566-184	34560-201 _
the horizontal rail perforations Al, untreated, 0.8 mm, length 431.5 mm, 1			- 6.104		- 6.104

<sup>1)</sup> SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple "heavy" load > 7.5 kg; "rugged" load > 15 kg;

#### NOTE

- 1000 mm version without M4 thread to front, without printing and without notch for 19"-bracket
- EMC gasket see page 6.56
- For further horizontal rails see page 6.29



#### **REAR HORIZONTAL RAILS**

#### **ORDER INFORMATION**

		For indirect backplane fixing with insulation strip		For direct backplane fixing		For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612)	
		0440001		04400002		0440003	
		"rugged"	"heavy"	"rugged"	"heavy"	"heavy"	
		Type R-ST	Type H-ST	Type R-VT	Type H-VT	Type H-MZ	
		Standard	standard	recessed installation	recessed installation	with Z-rail	
With HP markings fr Al extrusion, anodise conductive contact s	ed finish, surface	O6112005  Al extrusion, anodised finish, conductive contact surface, with HP markings	Al extrusion, anodised finish, conductive contact surface, with HP markings	Al extrusion, anodised finish, conductive contact surface, with HP markings	Al extrusion, anodised finish, conductive contact surface, with HP markings	Al extrusion, anodised finish, conductive contact surface, with HP markings	
Usable length HP	Length mm	T piece (SPQ TU)	Tiplece (SPQ Tu).	Tiplece (SPQ Tu).	T piece (SPQ Tu).7	1 piece (SPQ 10) <sup>1)</sup>	
20	106.68	34566-520	34560-520	34566-720	34560-720	34560-920	
28	147.32	34566-528	34560-528	34566-728	34560-728	34560-928	
40	208.28	34566-540	34560-540	34566-740	34560-740	34560-940	
42	218.44	34566-542	34560-542	34566-742	34560-742	34560-942	
63	325.12	34566-563	34560-563	34566-763	34560-763	34560-963	
84	431.80	34566-584	34560-584	34566-784	34560-784	34560-984	
-	1000	34566-501	34560-501	34566-701	34560-701	-	
Insulation strips s		6.104	6.104	-	-	-	
Threaded inserts		6.104	6.104	6.104	6.104	6.104	
Fixing material kit		6.103	6.103	6.103	6.103	6.103	
	1 0	her includes 1 piece, but d				******	

<sup>1)</sup> SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple "heavy" load > 7.5 kg; "rugged" load > 15 kg;

#### NOTE

- 1000 mm version without M4 thread to front, without printing and without notch for 19"-bracket
- EMC gasket see page 6.56
- For further horizontal rails see page 6.29

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REAR HORIZONTAL RAILS, CENTRE, FOR 6 U

#### **ORDER INFORMATION**

		For indirect backplane fixing with insulation strip	For direct backplane fixing	For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612
		0440001	0440002	0440003
		Type ST	Type VT	Type MZ
				and the state of t
	06108090	06197016	06197017	06197018
		Al extrusion, finish anodised, conductive contact surface; without markings	Al extrusion, finish anodised, conductive contact surface; without markings	Al extrusion, finish anodised, conductive contact surface; without markings
Usable length	Length	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>
HP	mm			
20	106.68	34561-020	34561-120	34561-220
28	147.32	34561-028		34561-228
40 42	208.28 218.44	34561-040	34561-140	34561-240
63	325.12	34561-042 34561-063	34561-142 34561-163	34561-242 34561-263
84	431.80			
04	1000	34561-084 34561-001	34561-184 34561-101	34561-284 34561-201
Insulation strips s		6.104	-	-
Threaded inserts		6.104	6.104	6.104
Fixing material ki		6.103	6.103	6.103
		her includes 1 niece, but delivery is exclusively made		0.100

<sup>1)</sup> SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple "heavy" load > 7.5 kg; "rugged" load > 15 kg;

#### NOTE

- · All horizontal rails without printed markings
- 1000 mm version without M4 thread to front



#### **HORIZONTAL RAILS (TYPE AB) FOR REAR I/O APPLICATIONS**

#### **ORDER INFORMATION**



<sup>1)</sup> SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple "heavy" load > 7.5 kg; "rugged" load > 15 kg;

#### NOTE

- All horizontal rails without printed markings
- 1000 mm version without M4 thread in end

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#### **SCREWS OVERVIEW**

	Description	Material	Dimension	Qty/PU	Part no.
0671205	Countersunk screw, with thread locking compound  Application: Rugged side panel to horizontal rail; for area of tox-cold welded brackets and corner profiles except when guide rail is fitted to slot 1	Stainless steel	M4 x 18	100	24566-100
0671205	Countersunk screw, with thread locking compound <b>Application:</b> Rugged side panel to horizontal rail; for area of tox-cold welded brackets and corner profiles if guide rail is fitted to slot 1	Stainless steel	M4 x 14	100	24566-101
aza4594	Panhead screw, with thread locking compound <b>Application:</b> Rugged side panel to horizontal rail; not for area of tox-cold welded brackets and corner profiles except when guide rail is fitted to slot 1	Stainless steel	M4 x 14	100	24566-102
0671205	Panhead screw, with thread locking compound <b>Application:</b> Rugged side panel to horizontal rail; not for area of tox-cold welded brackets and corner profiles if guide rail is fitted to slot 1	Stainless steel	M4 x 10	100	24566-103
0671205	Panhead screw, with thread locking compound <b>Application:</b> Rugged side panel to cover plate, not for area of tox-cold welded brackets and corner profiles	Stainless steel	M4 x 8	100	24566-104
0670805	Torx countersunk screw , with thread locking compound <b>Application:</b> Rugged side panel to cover plate, for area of tox-cold welded brackets and corner profiles	Stainless steel	M4 x 10	100	24566-106
0670805	Torx countersunk screw, with thread locking compound <b>Application:</b> Rugged side panel to corner profile; in EMC-shielded subracks and to increase robustness	Stainless steel	M4 x 7	100	24566-105
AZA459.	Square nut  Application: Rugged side panel to corner profile; in EMC-shielded subracks and to increase robustness	Zinc-plated steel	l M4	100	24560-140
		10" Dual fiving	matarial kit	220 6 104	24566-100

19" Dual fixing material kit, page 6.104 **24566-109** 

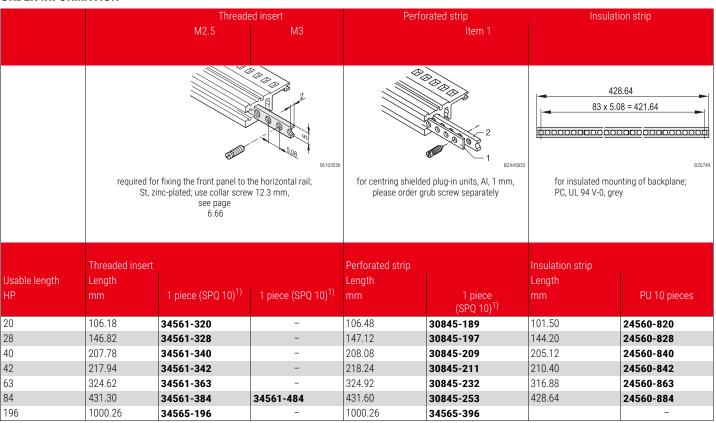
#### NOTE

• Stainless steel screws; with organic surface layer (silver)



#### THREADED INSERTS, PERFORATED STRIPS, INSULATION STRIPS

#### **ORDER INFORMATION**



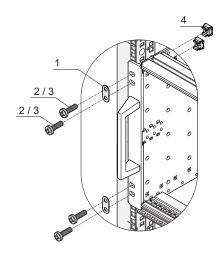
#### Accessories

Grub screw M2.5 x 8, PU 100 pieces	21100-276	-	-	-	-	-
Grub screw M2.5 x 9, PU 100 pieces	-	-	_	21101-359	-	_
Grub screw M3 x 8, PU 100 pieces	-	21100-646	-	-	-	-

<sup>1)</sup> SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Part no. includes one packing unit (PU); delivery is exclusively made in PU

#### 19" DUAL FIXING MATERIALS KIT



 For fixing a subrack with dual fixing holes to 19" mounting brackets (e.g. rugged and railroad subracks)

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	4	Double washer, stainless steel
2	8	M6 x 16 (Torx 30 drive) + Nomel washer
3	8	M6 x 16 (Pozidrive) + Nomel washer
4	8	Cage nut KM6
1	4	User manual

#### ORDER INFORMATION

Description	Part no.
19" dual fixing materials kit	24566-109

0611305

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#### ADAPTOR TO ACCOMMODATE CONDUCTION COOLED ASSEMBLIES (CCA)

#### **ORDER INFORMATION**



<sup>2)</sup> Part no. includes one packing unit (PU); delivery is exclusively made in PU

### GUIDE RAILS FOR PLUG-IN UNITS AND FRAME TYPE PLUG-IN UNITS, ONE-PIECE, GROOVE WIDTH 2 MM AND 2.5 MM

#### ORDER INFORMATION

				frame type plug-in units ndard"	
Assembly Plastic guide rail - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates  Storage temperature from -40 °C 130 °C			"Standard"  O6 102001		
			up to 220 mm length, PC, UL 94 V-0; from 280 mm length, multi-piece, end piece PC, UL 94 V-0, central section Al extrusion	PC, UL 94 V-0	
Board length	Groove width	Colour	2)	4 : (000 501)	
mm 70	mm	mm	PU 10 pieces <sup>2)</sup>	1 piece (SPQ 50) <sup>1)</sup>	
-	2	red	-	34568-230	
70	2	grey	-	34568-231	
160	2	red	24568-361	64568-001	
220	2	red	24568-362	64568-002	
280	2	red	24568-379	-	
340	2	red	24568-380	-	
160	2.5	red	-	64568-096	
220	2.5	red	-	64568-098	

#### Accessories

Retention screw, PU 100 pieces; Torque max. 0.2 Nm	24560-141	24560-141
ESD clip, PU 50 pieces	24560-255	24560-255

<sup>1)</sup> SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Description of accessories see from page 6.107

<sup>2)</sup> Part no. includes one packing unit (PU); delivery is exclusively made in PU  $\,$ 



#### **GUIDE RAILS FOR HEAVY ASSEMBLIES, COMPACTPCI, VME64X**

#### **ORDER INFORMATION**

Assembly - can be clipped into horizontal rails - can be clipped into Storage temperature from -40 °C 130 °C	1.5 mm thick pl		For CompactPCI, V In accordance with IEEE 1101.10 and IEC 60297-3-103	ME64x with coding Offset 0.1" for power supply units in accordance with IEEE 1101.10 and IEC 60297-3-103	For heavy modules, Al extrusion, silver, robust version
<ul> <li>can be clipped into horizontal rails</li> <li>can be clipped into</li> </ul> Storage temperature	1.5 mm thick pl			accordance with IEEE 1101.10 and	
<ul> <li>can be clipped into horizontal rails</li> <li>can be clipped into</li> </ul> Storage temperature	1.5 mm thick pl	lates			
		4			
			One-piece for groove width 2 mm, PC, UL 94 V-0; multi-piece for groove width 2.5 mm, end piece PC, UL 94 V-0, middle section Al extrusion	PC, UL 94 V-0, for installation of power supplies in CompactPCI systems or plug-in units with SMD placement	Al extrusion; is screwed to horizontal rail "heavy" with retention screws
	Groove Co vidth	olour	. PU 10 pieces. <sup>2)</sup> .	. PU 10 pieces. <sup>2)</sup> .	1 piece (SPQ 10) <sup>1)</sup>
	nm mr	m			
70 2			4568-357	_	_
70 2			4568-360	_	-
160 2	9 -	,	4568-356	_	-
160 2		-	4568-358	_	34562-881
160 2	J .	een	-	24568-359	-
220 2			_	-	34562-882
220 2	9 -	een	_	_	34562-883
	5 gre		-	-	34564-881
	5 rec	-	-	-	-
	.5 gre		-	-	34564-882
	5 rec		4568-331	-	-
280 2.	5 gre	ey 2	4568-341	-	34564-883
Accessories		, ,			
		4560-255	-	-	
ESD clips, for alignment pin, PU 50 pieces		2	4560-256	24560-256	-
Retention screw, PU 100 pcs.; torque max. 0.2 Nm		2	4560-141	24560-141	24560-157
Coding peg, PU 100 pieces		2	0817-501	20817-501	-

<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

Description of accessories see from page 6.107

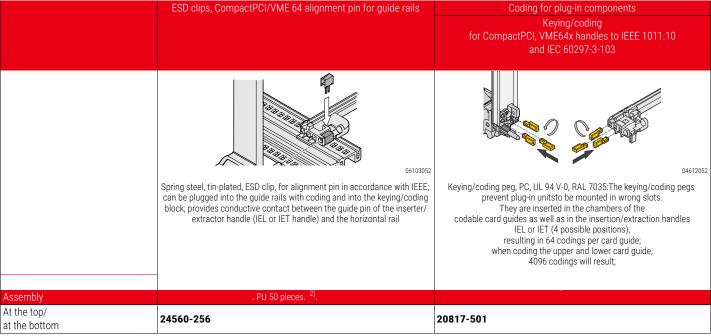
6.106 | nVent.com/SCHROFF

<sup>2)</sup> Order number includes one packaging unit (PU); delivery is exclusively made in PU



#### **GUIDE RAIL ACCESSORIES**

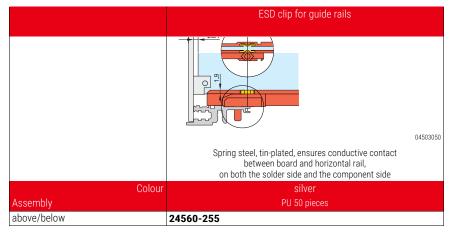
#### **ORDER INFORMATION**



<sup>2)</sup> Part no. includes one packing unit (PU); delivery is exclusively made in PU

#### **GUIDE RAIL ACCESSORIES**

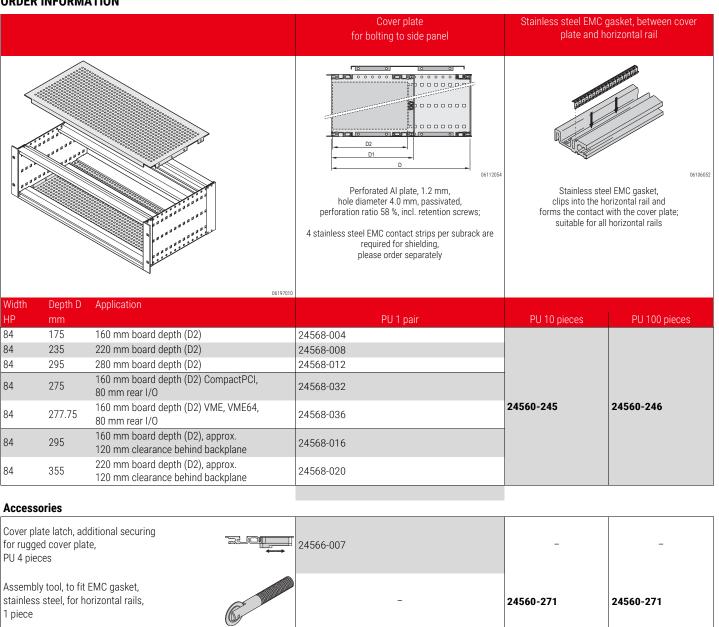
#### **ORDER INFORMATION**





#### **COVER PLATES FOR BOLTING TO RUGGED SIDE PANEL**

#### **ORDER INFORMATION**



#### NOTE

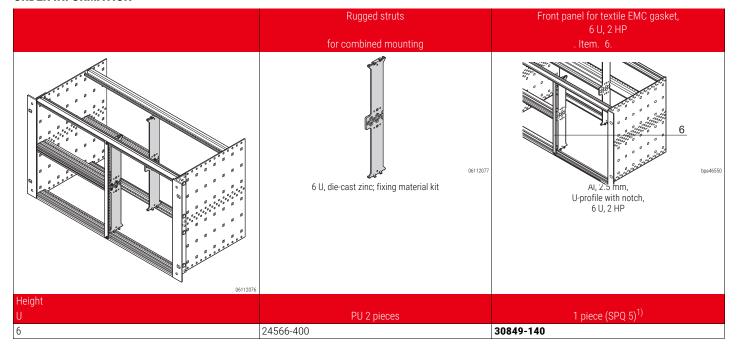
- Cover plates without perforation available on request
- Mounting position of horizontal rails, see page 6.98

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**COMBINED MOUNTING (6 U AND 2 X 3 U ONE ABOVE THE OTHER)** 

#### **ORDER INFORMATION**



#### **Accessories**

Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated, PU 100 pieces	-	21101-101
Pozidrive/slotted collar screw M2.5, black, zinc-plated, PU 100 pieces	_	21101-102
Washer 2.7 x 5 x 1, PA 6, PU 100 pieces	_	21101-121
Textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, PU 10 pieces	-	21101-855

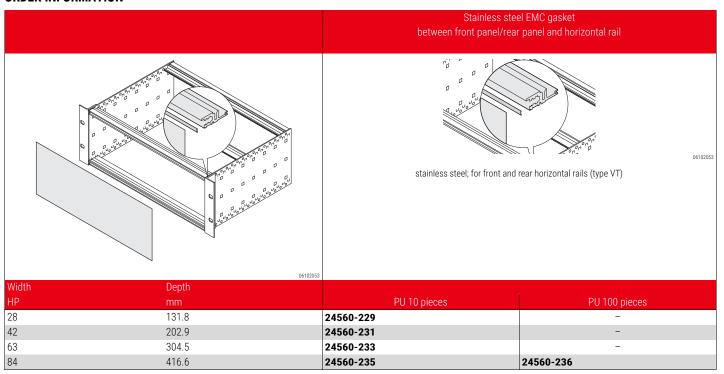
#### NOTE

• Rugged horizontal rails in various lengths, see page 6.99



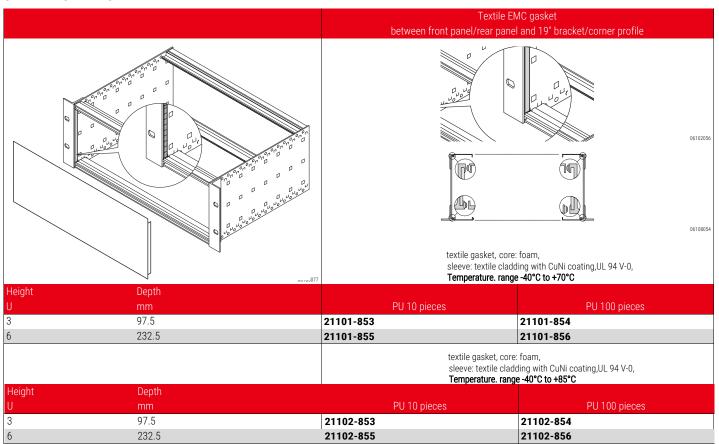
#### **EMC GASKETS BETWEEN FRONT/REAR PANEL AND HORIZONTAL RAIL**

#### **ORDER INFORMATION**



#### **EMC GASKETS BETWEEN FRONT PANEL AND 19" BRACKET/CORNER PROFILE**

#### **ORDER INFORMATION**

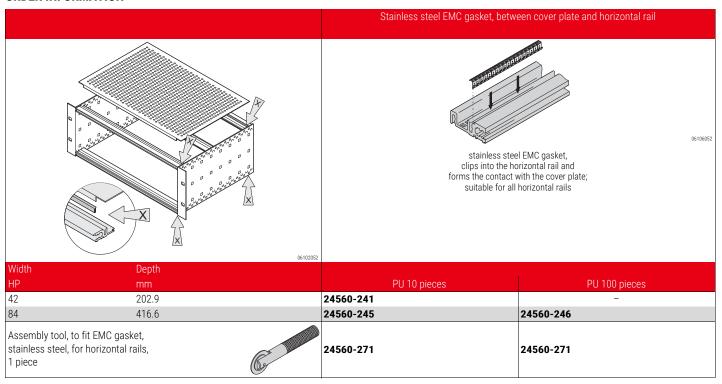


6.110 | nVent.com/SCHROFF



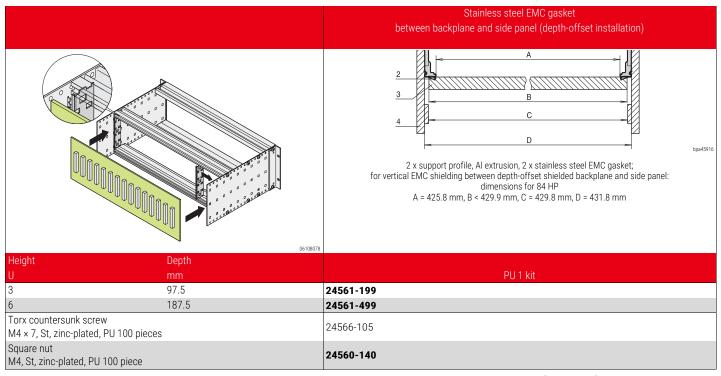
#### **EMC GASKET BETWEEN HORIZONTAL RAIL AND COVER PLATE**

#### **ORDER INFORMATION**



#### **EMC GASKET BETWEEN BACKPLANE AND SIDE PANEL**

#### **ORDER INFORMATION**



With appropriate design, the backplane can be used as shielded rear wall of the rack; in this case a rear horizontal rail (L-type VT or H-VT) must be used for deeper installation to ensure the horizontal contact.

For vertical contact the support profile can be fixed in the standard way to the europacPRO side panel (depth grid 30 mm



### Subracks – EuropacPRO

#### PLATFORM-BASED STANDARD SOLUTIONS FOR INDIVIDUAL REQUIREMENTS

Practical technology without time-consuming assembly. The modular europacPRO product platform allows a wide range of possible applications with only a few components. The intelligent design of all components results in remarkably simple and fast management in assembly and components.

Two ways of reaching your desired product:

Kits

06107001

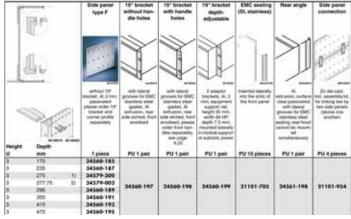
· Individual configuration

#### Simple assembly with europacPRO kits:



Delivered in space-saving flat packs. The threaded inserts or EMC gasket (depending on selected kit) are already pre-mounted on the horizontal rail.

#### Individual configuration:



0610905

You design your subrack as you wish, then receive it fully assembled via our **ServicePLUS assembly service** (even for orders of just one). We can also carry out individual modifications and cut-outs; and when time is short can do so very fast via ServicePLUS express.

#### HORIZONTAL RAILS AND SIDE PANELS FOR DIFFERENT LOAD-CARRYING CLASSES



Horizontal rails are available for three load classes:

- "light" (load up to approx. 7.5 kg)
- "heavy" (load > 7.5 kg)
- "rugged" (load 15 kg)



#### Side panels for 4 different load classes

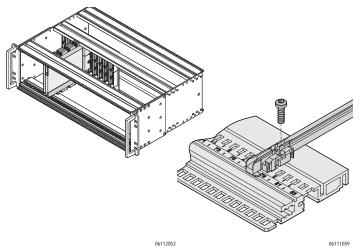
- Light: low-cost version with built-in 19" mounting bracket
- Flexible: with separate, depth-adjustable 19" mounting bracket
- Heavy: with integrated, tox-cold welded 19" mounting bracket, e.g. for shock and vibration environments up to 5 g
- Rugged: with integrated, tox-cold welded 19" mounting bracket and higher material thicknesses for extreme mechanical stresses, e.g. for increased shock and vibration environments up to 25 g
- The combination of the 3 horizontal rail variants with the 4 types of side panel results in an almost unlimited variety of potential applications for various market requirements

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### Subracks – EuropacPRO

#### **GUIDE RAILS FROM PLASTIC AND ALUMINIUM PROFILES**



Guide rails form the interface between the subrack mechanics and the assemblies (boards, plug-in units, frame type plug-in units, drive unit modules, ...).

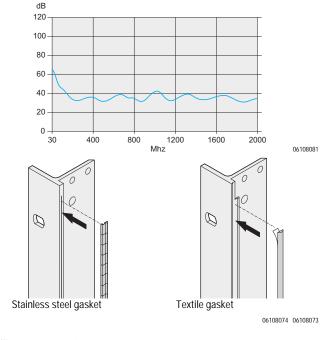
Robust snap-in fixings on the plastic rails assure a secure grip, even when exposed to vibrations. In the case of H and R-type horizontal rails the guide rails can also be bolted on. For extreme stresses, guide rails in aluminium extrusion are used.

To ensure that the wrong subassembly is not inserted into the wrong space we offer a mechanical coding to IEEE 1101.10/11 and IEC 60297-3-103.

The continuous numbering on the horizontal rail (from 28 HP) and the markings on the guide rails facilitate quick fitting in the correct position.

We offer the appropriate adaptors for accommodating VPX or CompactPCI boards with strengthening frame or conduction-cooled assemblies (CCA) installed in a subrack.

#### **ELECTROMAGNETIC SHIELDING AND ESD**



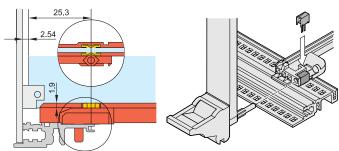
The product platform europacPRO offers a variety of off-the-shelf solutions to assure electromagnetic compatibility (EMC) and to avoid electrostatic discharge (ESD).

#### Two shielding concepts

It can't be more secure!

Two types of shielding concepts to front/rear of the subrack allow the use all Schroff frontpanels.

The shielding at the front of the subrack is by means of stainless steel or textile EMC gaskets.



#### ESD (electrostatic discharge)

To avoid electrostatic discharge when inserting PCBs, ESD contacts are clipped into the guide rails. These establish a conductive connection between PCB and subrack-earth. Under IEC 60297-3-101 two ESD areas are defined on the euroboard. The ESD clips of the guide rail of the europacPRO subrack allow the assembly of both following variants:

- ESD area (bottom and top) over the complete board length
- ESD area (bottom/top) begins at the front from 70 mm to end of board)

04503050 06103052

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