

CONNECT AND PROTECT

EuropacPRO

04/2025





OVERVIEW

MAIN KATALOG

Cabinets 1

Wall mounted cases 2

Accessories for cabinets and wall mounted cases . . 3

Climate control . . 4

Electronics cases 5

Subracks/ 19" chassis 6

Front panels, plug-in units 7 Systems 8

Power supply units 9

Backplanes . . . 10

Connectors, front panel component system 11

Appendix 12





Different horizontal rails for various applications



The IEEE handles and shielded front panels are designed for the construction of CompactPCI and VME64x subrack systems



Sequential numbering on horizontal rails (> 28 HP) and markings on the guide rails provide quick optical positioning aids. ESD clips can be used at front or rear, to protect electronics from electrostatic discharge

STANDARDS/CERTIFICATIONS

- Inner and outer dimensions meet: IEC 60297-3-100, -101, - 102, -103, -104, -105 IEEE 1101.1 and IEEE 1101.10/11
- Type of protection IP 20 to IEC 60529
- EMC testing to IEC 61587-3 (3GHZ) and IEC 61000-5-7 (40GHz)
- Shock and vibration test reports: German "Bahn" standards BN 411002, BN 411003; NF F 60002, NF F 67012 IEC 61587-2, EN 50155, part 12.2.11
- · Safety Requirements IEC 62368-1
- Plastic parts: Improved fire safety properties, fulfills EN 45545-2 requirement sets R22, R23 and R24 with HL3, "Halogen-Free", according to IEC 61249-2-21

EMC CURVE Gesant 0,03-40 GHz

Nuclear plants KTA 1401

ſ



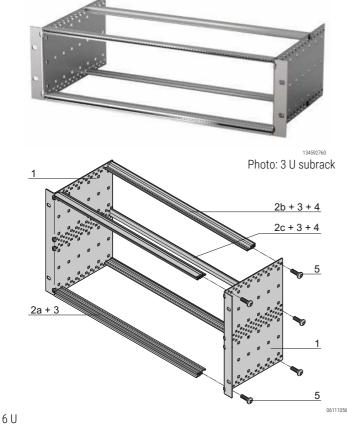
| OVERVIEW | | Overview 6.6 |
|--|--|---|
| 19" SUBRACKS Kits or individual configuration One product and accessories platform customer requirement and application Suitable for CompactPCI and VME64x EMC shielding can easily be retrofitte Shock and vibration resistant up to 5 3D PDF or CAD 3D data available for form | insertion and extractor handles d if needed g | Introduction 6.4 |
| | KITS All required parts available under one order number, some pre-fitted Most popular dimensions and versions available from stock For installed loads up to 7.5 kg, up to 11 kg and up to 15 kg As unshielded or shielded version Supplied as space-saving flat-pack | Kits Light |
| <image/> <image/> <image/> <image/> <image/> | SERVICEPLUS INDIVIDUAL CONFIGURATION Single parts may individually be configured, respectively assembled on request (from quantity 1) Very wide range of variants in heigth, width and depth Guide rails for different applications EMC shielding material to improve EMC performance Interior assembly options with mounting plate or combined mounting (3U and 6 U segments) Other accessories and assembly kits | ServicePLUS configuration Side panels 6.21 Horizontal rails, threaded inserts, perforated strips . 6.30 Guide rails 6.39 Cover plates 6.48 EMC Cover plates 6.48 EMC Shielding 6.62 Interior assemblies . 6.66 Assembly kits 6.73 Application examples 6.79 Subracks for mobile railway applications 6.70 |
| | SERVICEPLUS e.g. individual configuration and assembly e.g. modification (cut-outs) e.g. downloads (CAD drawings, user manuals, test reports) e.g. custom solutions | europacPRO for industrial applications 6.86 europacPPO for |

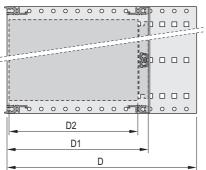
nVent.com/SCHROFF | 6.5

rugged applications 6.92



KIT, "LIGHT", UNSHIELDED, FOR BACKPLANE MOUNTING





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



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type L ("light") with firmly fixed 19" brackets
- Rear horizontal rails for backplane mounting with insulation strip
- Installed load up to 7.5 kg
- Cost-optimised

DELIVERY COMPRISES (Kit)

| U 6U 2 | Side panel type L, Al, 2 mm, passivated, |
|-----------|--|
| 2 | |
| | with built-in 19" support bracket |
| 2 | Front horizontal rail (L-KD) |
| 2 | Rear horizontal rail (L-ST) |
| 1 | Rear horizontal rail centre (ST) |
| 6 | Threaded insert, front and rear (pre-fitted) |
| 4 | Insulation strip (pre-fitted) |
| 1 | Fixing material kit, user manual |
| | 2 1 6 |

ORDER INFORMATION

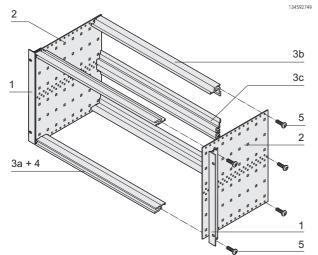
| Height | Width | Depth D | Depth D1 | Part no. |
|---|--|---|---|---|
| U | HP | mm | mm | |
| 3 | 84 | 175 | 175 | 24564-131 |
| 3 | 84 | 235 | 175/235 | 24564-132 |
| 3 | 84 | 295 | 175/235/295 | 24564-133 |
| 6 | 84 | 175 | 175 | 24564-431 |
| 6 | 84 | 235 | 175/235 | 24564-432 |
| 6 | 84 | 295 | 175/235/295 | 24564-433 |
| Accesso | ries | | | |
| 19" assem | ıbly kit (screw, w | /asher, nut) | | 21100-435 |
| (8 × screw | s, 8 × plastic wa | shers, 8 × cage | nuts) | 21100-435 |
| | | | | |
| Trims for s | side panels Type | e (19" angle) type | e L, 3 U, packaging | 34561-197 |
| Trims for s unit 1 piec | | e (19" angle) type | e L, 3 U, packaging | 34561-197 |
| unit 1 piec | e | | e L, 3 U, packaging e L, 6 U, packaging | 34561-197 34561-497 |
| unit 1 piec Trims for unit 1 piec | e side panels Type ce | e (19" angle) typ | e L, 6 U, packaging | |
| unit 1 piec Trims for unit 1 piec Sleeves PF | e side panels Type ce 20, black, to fix t | e (19" angle) typ op cover to side | e L, 6 U, packaging panel, PU 100 pieces | |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scre | e side panels Type ce PO, black, to fix t ew with slot M6 2 | e (19" angle) typ op cover to side x 16, St, nickel-p | e L, 6 U, packaging | 34561-497 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scre | e side panels Type ce 20, black, to fix t | e (19" angle) typ op cover to side x 16, St, nickel-p | e L, 6 U, packaging panel, PU 100 pieces | 34561-497 21100-565 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scre Guide rai | e side panels Type ce PO, black, to fix t ew with slot M6 2 | e (19" angle) typ op cover to side x 16, St, nickel-p | e L, 6 U, packaging panel, PU 100 pieces | 34561-497 21100-565 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scree Guide rai Depth D2 | e side panels Type ce PO, black, to fix t ew with slot M6 2 | e (19" angle) typ op cover to side x 16, St, nickel-p | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces | 34561-497 21100-565 21100-566 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scree Guide rai Depth D2 | e side panels Type ce PO, black, to fix t ew with slot M6 2 | e (19" angle) typ op cover to side x 16, St, nickel-p | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces Qty/PU | 34561-497 21100-565 21100-566 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scre Guide rai Depth D2 mm | e side panels Type ce PO, black, to fix t ew with slot M6 2 | e (19" angle) typ op cover to side x 16, St, nickel-p | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces Qty/PU piece | 34561-497 21100-565 21100-566 Part no. |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scre Guide rai Depth D2 mm 160 | e side panels Type ce PO, black, to fix t ew with slot M6 2 | e (19" angle) typ op cover to side x 16, St, nickel-p | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces Qty/PU piece 10 | 34561-497 21100-565 21100-566 Part no. 24568-361 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scree Guide rai Depth D2 mm 160 220 280 | e side panels Type ce PO, black, to fix t ew with slot M6 2 | e (19" angle) typ op cover to side x 16, St, nickel-p ESD clips | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces Qty/PU piece 10 10 | 34561-497 21100-565 21100-566 Part no. 24568-361 24568-362 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scree Guide rai Depth D2 mm 160 220 280 ESD clips f | e side panels Type PO, black, to fix t ew with slot M6 : ils (standard), for guide rails PU | e (19" angle) typ op cover to side x 16, St, nickel-p ESD clips | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces Qty/PU piece 10 10 | 34561-497 21100-565 21100-566 Part no. 24568-361 24568-362 24568-379 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scree Guide rai Depth D2 mm 160 220 280 ESD clips f Cover pla | e side panels Type PO, black, to fix t ew with slot M6 : ils (standard), for guide rails PU | e (19" angle) typ op cover to side x 16, St, nickel-p ESD clips J 50 pieces ion in horizon | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces Qty/PU piece 10 10 10 | 34561-497 21100-565 21100-566 Part no. 24568-361 24568-362 24568-379 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scree Guide rai Depth D2 mm 160 220 280 ESD clips f Cover pla | e side panels Type 20, black, to fix t ew with slot M6 2 ils (standard), for guide rails Pl ates for insert | e (19" angle) typ op cover to side x 16, St, nickel-p ESD clips J 50 pieces ion in horizon | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces Qty/PU piece 10 10 10 10 tal rails (type L) | 34561-497 21100-565 21100-566 Part no. 24568-361 24568-362 24568-379 24560-255 |
| unit 1 piec Trims for unit 1 piec Sleeves PF Collar scree Guide rai Depth D2 mm 160 220 280 ESD clips f Cover pla Depth D2 | e side panels Type 20, black, to fix t ew with slot M6 2 ils (standard), for guide rails Pt ates for insert Wid | e (19" angle) typ op cover to side x 16, St, nickel-p ESD clips J 50 pieces ion in horizon | e L, 6 U, packaging panel, PU 100 pieces lated, PU 100 pieces Qty/PU piece 10 10 10 10 tal rails (type L) Qty/PU | 34561-497 21100-565 21100-566 Part no. 24568-361 24568-362 24568-379 24560-255 |

NOTE

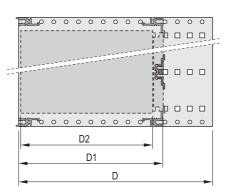
• Subrack is not prepared for shielding

KIT, "FLEXIBLE", UNSHIELDED, FOR CONNECTOR MOUNTING





6 U



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



Horizontal rail to rear for connector mounting

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rails for connector mounting (IEC 60603-2 / DIN 41612)
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

| Item | Qty | | Description |
|------|-----|-----|--|
| | 3 U | 6 U | |
| 1 | 2 | 2 | 19" support bracket, Al extrusion, for EMC gasket (St, stainless) |
| 2 | 2 | 2 | Side panel type F, Al, 2 mm |
| За | 2 | 2 | Front horizontal rail (L-KD) |
| Зb | 2 | 2 | Rear horizontal rail (L-MZ) for connector mounting |
| 3c | - | 1 | Centre horizontal rail (MZ) |
| 4 | 2 | 2 | Threaded insert to front (pre-fitted) |
| 5 | 1 | 1 | Fixing material kit, user manual |

ORDER INFORMATION

| - | - | - | | |
|--------|-------|---------|-----------------|-----------|
| Height | Width | Depth D | Depth D1 | Part no. |
| U | HP | mm | mm | |
| 3 | 84 | 175 | 175 | 24563-191 |
| 3 | 84 | 235 | 175/235 | 24563-192 |
| 3 | 84 | 295 | 175/235/295 | 24563-193 |
| 3 | 84 | 355 | 175/235/295/355 | 24563-194 |
| 6 | 84 | 175 | 175 | 24563-491 |
| 6 | 84 | 235 | 175/235 | 24563-492 |
| 6 | 84 | 295 | 175/235/295 | 24563-493 |
| 6 | 84 | 355 | 175/235/295/340 | 24563-494 |

Accessories

06105054

06108050

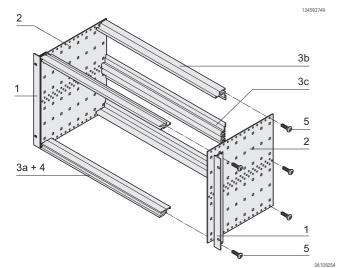
| /////////////////////////////////////// | | | |
|---|-----------------------|------------------------|-----------|
| 19" assembly ki (8 × screws, 8 × | 21100-435 | | |
| Guide rails (st | andard), ESD clips | | |
| Depth D2 | | Qty/PU | Part no. |
| mm | | piece | |
| 160 | | 10 | 24568-361 |
| 220 | | 10 | 24568-362 |
| 280 | | 10 | 24568-379 |
| 340 | | 10 | 24568-380 |
| ESD clip for guid | le rails PU 50 pieces | | 24560-255 |
| Cover plates f | or insertion in hor | izontal rails (type L) | |
| Depth D2 | Width | Qty/PU | Part no. |
| mm | HP | piece | |
| 160 | 84 | 2 | 24561-051 |
| 220 | 84 | 2 | 24561-052 |



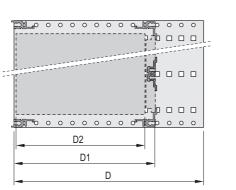


KIT, "FLEXIBLE", UNSHIELDED FOR CONNECTOR, ASSEMBLY ON SLIDE RAIL





6 U



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



Rear horizontal rail for connector mounting

- Subrack can be used with slide rails
- Subrack with side panel type F ("flexible"), 19" bracket with notch for slide rail assembly
- Horizontal rails, rear, for connector mounting (IEC 60603-2 / DIN 41612)
- Installed load up to 11 kg

DELIVERY INCLUDES (Kit, flat pack)

| Item | Qty | | Description |
|------|-----|-----|---|
| | 3 U | 6 U | |
| 1 | 2 | 2 | 19" support bracket, Al extrusion, for EMC sealing (St, stainless) |
| 2 | 2 | 2 | Side panel type F, Al, 2 mm |
| 3a | 2 | 2 | Front horizontal rail (L-KD) |
| 3b | 2 | 2 | Rear horizontal rail (L-MZ) for connector mounting |
| 3c | - | 1 | Center horizontal rail (MZ) |
| 4 | 2 | 2 | Threaded insert to front (pre-fitted) |
| 5 | 1 | 1 | Fixing materials kit, user manual |

ORDER INFORMATION

| Height | Width | Depth D | Depth D1 | Part no. | | |
|-------------|---------------|-----------------|-----------------|-----------|--|--|
| U | HP | mm | mm | | | |
| 3 | 84 | 235 | 175/235 | 24553-192 | | |
| 3 | 84 | 295 | 175/235/295 | 24553-193 | | |
| 3 | 84 | 355 | 175/235/295/355 | 24553-194 | | |
| 6 | 84 | 235 | 175/235 | 24553-492 | | |
| 6 | 84 | 295 | 175/235/295 | 24553-493 | | |
| 6 | 84 | 355 | 175/235/295/355 | 24553-494 | | |
| Accessories | | | | | | |
| 19" fixing | material kit | 21100-435 | | | | |
| (8 × screv | vs, 8 × plast | ic washers, 8 × | < cage nuts) | 21100-435 | | |

| (8 × screws, 8 × | plastic washers, 8 × | cage nuts) | 21100 100 |
|-------------------|--------------------------|--------------------------------|---------------|
| Guide rails (s | tandard), ESD clip | S | |
| Depth D2 | | Qty/PU | Part no. |
| mm | | piece | |
| 160 | | 10 | 24568-361 |
| 220 | | 10 | 24568-362 |
| 280 | | 10 | 24568-379 |
| ESD clip for guid | de rails Spring steel, t | tin-plated, silver, PU 50 pied | ces 24560-255 |
| Cover plates | for insertion into h | orizontal rail type L | |
| Depth D2 | Width | Qty/PU | Part no. |
| mm | HP | piece | |
| 160 | 84 | 2 | 24561-051 |
| 220 | 84 | 2 | 24561-052 |

NOTE

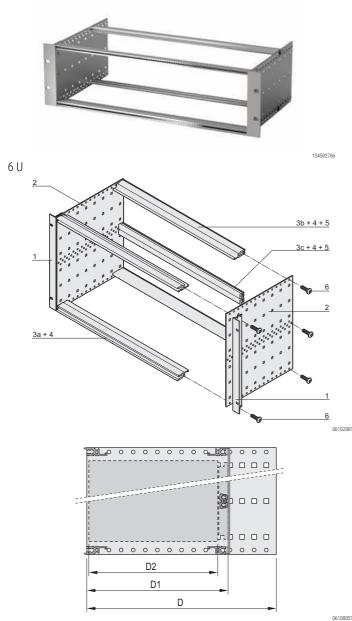
 Alternative product for legacy Europac Lab and Europac Rational subrack series

04400003

06108050

KIT, "FLEXIBLE", UNSHIELDED, FLEXIBLE FOR BACKPLANE, ASSEMBLY ON SLIDE RAIL





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



Rear horizontal rail for backplane mounting with insulation strip

- Subrack can be used with slide rails
- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rails for backplane mounting with insulation strip
- Installed load up to 11 kg

DELIVERY INCLUDES (Kit, flat pack)

| ltem | Qty | | Description |
|------|-----|-----|--|
| | 3 U | 6 U | |
| 1 | 2 | 2 | 19" support bracket, Al extrusion, for EMC sealing (St, stainless) |
| 2 | 2 | 2 | Side panel type F, Al, 2 mm |
| 3a | 2 | 2 | Front horizontal rail (L-KD) |
| 3b | 2 | 2 | Rear horizontal rail (L-ST) for backplane mounting |
| 3c | - | 1 | Rear center horizontal rail (ST) |
| 4 | 4 | 6 | Threaded inserts, front and rear (pre-fitted) |
| 5 | 2 | 4 | Insulation strip (pre-fitted) |
| 6 | 1 | 1 | Fixing materials kit, user manual |

ORDER INFORMATION

| Height | Width | Depth D | Depth D1 | Part no. | |
|---|-------|---------|-----------------|-----------|--|
| U | HP | mm | mm | | |
| 3 | 84 | 235 | 175/235 | 24553-132 | |
| 3 | 84 | 295 | 175/235/295 | 24553-133 | |
| 3 | 84 | 355 | 175/235/295/355 | 24553-134 | |
| 6 | 84 | 235 | 175/235 | 24553-432 | |
| 6 | 84 | 295 | 175/235/295 | 24553-433 | |
| 6 | 84 | 355 | 175/235/295/355 | 24553-434 | |
| Accessories | | | | | |
| 10" fiving material kit (acrow weather nut) | | | | | |

| 5 | 8 × screws, 8 × plastic washers, 8 × cage nuts) | | | |
|-------------------|---|------------------------------|--------------|--|
| Guide rails (st | tandard), ESD clips | | | |
| Depth D2 | | Qty/PU | Part no. | |
| mm | | piece | | |
| 160 | | 10 | 24568-361 | |
| 220 | | 10 | 24568-362 | |
| 280 | | 10 | 24568-379 | |
| 340 | | 10 | 24568-380 | |
| ESD clip for guid | le rails Spring steel, ti | n-plated, silver, PU 50 piec | es 24560-255 | |
| Cover plates f | or insertion into h | orizontal rail type L | | |
| Depth D2 | Width | Qty/PU | Part no. | |
| mm | HP | piece | | |
| 160 | 84 | 2 | 24561-051 | |
| 220 | 84 | 2 | 24561-052 | |

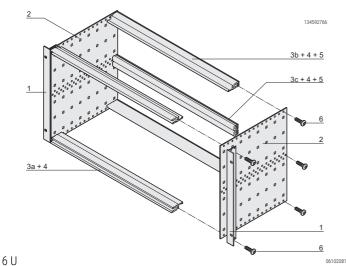
NOTE

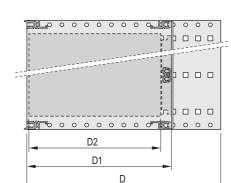
0440000

 Alternative product for legacy Europac Lab and Europac Rational subrack series

KIT, "FLEXIBLE", UNSHIELDED, FOR BACKPLANE MOUNTING







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



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rail for backplane mounting with insulation strip
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

| Item | Qty | | Description |
|------|-----|-----|--|
| | 3 U | 6 U | |
| 1 | 2 | 2 | 19" support bracket, Al extrusion, for EMC stainless steel gasket |
| 2 | 2 | 2 | Side panel type F, Al, 2 mm |
| 3a | 2 | 2 | Front horizontal rail (L-KD) |
| 3b | 2 | 2 | Rear horizontal rail (L-ST) for backplane mounting |
| 3c | - | 1 | Rear horizontal rail centre (ST) |
| 4 | 4 | б | Threaded insert, front and rear (pre-fitted) |
| 5 | 2 | 4 | Insulation strip (pre-fitted) |
| 6 | 1 | 1 | Fixing material kit, user manual |

ORDER INFORMATION

06108051

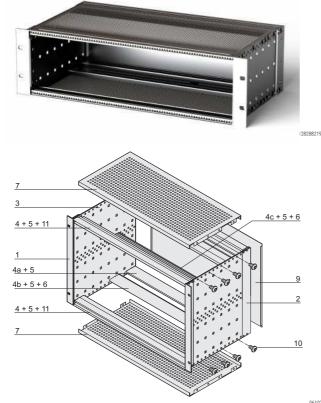
| Height | Width | Depth D | Depth D1 | Part no. | | | |
|-------------|-------|-----------------------------------|-----------------|-----------|--|--|--|
| U | HP | mm | mm | | | | |
| 3 | 84 | 175 | 175 | 24563-131 | | | |
| 3 | 84 | 235 | 175/235 | 24563-132 | | | |
| 3 | 84 | 295 | 175/235/295 | 24563-133 | | | |
| 3 | 84 | 355 | 175/235/295/355 | 24563-134 | | | |
| 3 | 84 | 415 | 175/235/295/355 | 24563-135 | | | |
| 3 | 84 | 475 | 175/235/295/355 | 24563-136 | | | |
| 6 | 84 | 175 | 175 | 24563-431 | | | |
| б | 84 | 235 | 175/235 | 24563-432 | | | |
| 6 | 84 | 295 | 175/235/295 | 24563-433 | | | |
| б | 84 | 355 | 175/235/295/355 | 24563-434 | | | |
| 6 | 84 | 415 | 175/235/295/355 | 24563-435 | | | |
| 6 | 84 | 475 | 175/235/295/355 | 24563-436 | | | |
| Accessories | | | | | | | |
| | | ew, washer, nu ic washers, 8 × | | 21100-435 | | | |

| Guide rails (s | tandard), ESD clips | ; | |
|-------------------|-----------------------|------------------------|-----------|
| Depth D2 mm | | Qty/PU piece | Part no. |
| 160 | | 10 | 24568-361 |
| 220 | | 10 | 24568-362 |
| 280 | | 10 | 24568-379 |
| 340 | | 10 | 24568-380 |
| ESD clip for guid | de rails PU 50 pieces | | 24560-255 |
| Cover plates | for insertion in hor | izontal rails (type L) | |
| Depth D2 | Width | Qty/PU | Part no. |
| mm | HP | piece | |
| 160 | 84 | 2 | 24561-051 |
| 220 | 84 | 2 | 24561-052 |

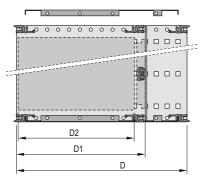


KIT, "FLEXIBLE", SHIELDED, FOR BACKPLANE MOUNTING





6 U



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



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is closed with shielded front panels
- Installed load up to 11 kg

DELIVERY COMPRISES ((kit))

| Item | Qty | | Description |
|------|-----|-----|--|
| | 3 U | 6 U | |
| 1 | 2 | 2 | 19" support bracket for EMC textile gasket |
| 2 | 2 | 2 | Rear corner profile for EMC textile gasket |
| 3 | 2 | 2 | Side panel type F |
| 4 | 2 | 2 | Front horizontal rail (L-KD) |
| 4 a | 2 | 2 | Rear horizontal rail (L-KD) |
| 4 b | 2 | 2 | Rear horizontal rail (L-ST) for backplane mounting with insulation strip |
| 4 c | - | 1 | Centre horizontal rail (ST) |
| 5 | 6 | 8 | Threaded insert (pre-fitted) |
| 6 | 2 | 4 | Insulation strip, fixed |
| 7 | 2 | 2 | EMC cover plate |
| 8 | 1 | 1 | EMC gasketing material (pre-fitted) |
| 9 | 1 | 1 | Rear panel |
| 10 | 1 | 1 | Fixing material kit |
| 11 | 2 | 2 | Perforated strip (pre-fitted) |
| 12 | 1 | 1 | User manual |

ORDER INFORMATION

06113056

| Height | Width | Depth D | Depth D1 | Part no. |
|--------|-------|---------|-------------|-----------|
| U | HP | mm | mm | |
| 3 | 84 | 235 | 175 | 24563-142 |
| 3 | 84 | 295 | 175/235 | 24563-143 |
| 3 | 84 | 355 | 175/235/295 | 24563-144 |
| 3 | 84 | 415 | 175/235/295 | 24563-145 |
| 3 | 84 | 475 | 175/235/295 | 24563-146 |
| 6 | 84 | 235 | 175 | 24563-442 |
| 6 | 84 | 295 | 175/235 | 24563-443 |
| 6 | 84 | 355 | 175/235/295 | 24563-444 |
| 6 | 84 | 415 | 175/235/295 | 24563-445 |
| 6 | 84 | 475 | 175/235/295 | 24563-446 |

19" assembly kit (screw, washer, nut)
(8 × screws, 8 × plastic washers, 8 × cage nuts)21100-435

1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x**21102-105**1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x**21102-107**

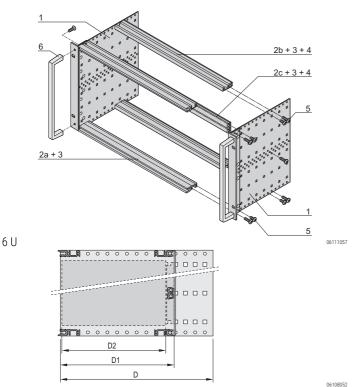
| Guide rails (standard), ESD clips | | |
|---------------------------------------|--------|-----------|
| Depth D2 | Qty/PU | Part no. |
| mm | piece | |
| 160 | 10 | 24568-361 |
| 220 | 10 | 24568-362 |
| 280 | 10 | 24568-379 |
| ESD clip for guide rails PU 50 pieces | | 24560-255 |



KIT, 'HEAVY', UNSHIELDED, FOR BACKPLANE MOUNTING



Without front handle



D = overall depth, D1 = insertion depth, D2 = board depth



Rear horizontal rail for backplane mounting with insulation strip



Front handle position

- Subrack with side panel type H ("heavy"), 19" bracket is firmly fixed to side panel (tox-cold welded)
- Rear horizontal rail for backplane mounting with insulation strip
- · Shock and vibration resistance up to 5 g
- Installed load up to 15 kg
- · Versions with/without front handles

DELIVERY COMPRISES (Kit)

| Item | Qty | | Description |
|------|-----|-----|--|
| | 3 U | 6 U | |
| 1 | 2 | 2 | Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC gasket |
| 2a | 2 | 2 | Front horizontal rail (H-KD) |
| 2b | 2 | 2 | Rear horizontal rail (H-ST) |
| 2c | - | 1 | Rear horizontal rail centre (H-ST) |
| 3 | 4 | 6 | Threaded insert, front and rear (pre-fitted) |
| 4 | 2 | 4 | Insulation strip (pre-fitted) |
| 5 | 1 | 1 | Fixing material kit, user manual |
| б | 2 | 2 | Front handle, angled version (on version with front handle only) |

ORDER INFORMATION

| Height U | Width HP | Depth D mm | Depth D1 mm | Part no. with front handle | Part no. without front handle |
|-------------|-------------|---------------|-----------------|----------------------------------|-------------------------------------|
| 3 | 84 | 175 | 175 | 24567-161 | 24563-161 |
| 3 | 84 | 235 | 175/235 | 24567-162 | 24563-162 |
| 3 | 84 | 295 | 175/235/295 | 24567-163 | 24563-163 |
| 3 | 84 | 355 | 175/235/295/355 | 24567-164 | 24563-164 |
| 6 | 84 | 175 | 175 | 24567-461 | 24563-461 |
| 6 | 84 | 235 | 175/235 | 24567-462 | 24563-462 |
| 6 | 84 | 295 | 175/235/295 | 24567-463 | 24563-463 |
| 6 | 84 | 355 | 175/235/295/355 | 24567-464 | 24563-464 |

Accessories

| 19" assembly kit (scr (8 × screws, 8 × plast | 21100-435 | | |
|---|----------------------|--------|-----------|
| Guide rails (stand | ard), ESD clips | | |
| Depth D2 | | Qty/PU | Part no. |
| mm | | piece | |
| 160 | | 10 | 24568-361 |
| 220 | | 10 | 24568-362 |
| 280 | | 10 | 24568-379 |
| 340 | | 10 | 24568-380 |
| ESD clip for guide rai | 24560-255 | | |
| Torx panhead screw zinc-plated, PU 100 p | 24560-141 | | |
| Cover plates for b | olting to side panel | | |
| Depth D2 | Width | Qty/PU | Part no. |
| mm | HP | piece | |
| 160 | 84 | 2 | 24560-078 |
| 220 | 84 | 2 | 24560-079 |
| 280 | 84 | 2 | 24560-080 |
| 340 | 84 | 2 | 24560-081 |

Remark:

- ServicePLUS from page 6.20
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)

The handle are screwed from the rear side of the 19" bracket

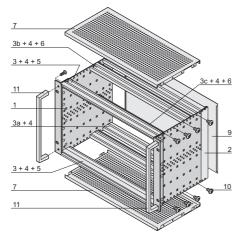
6.12 | nVent.com/SCHROFF

KIT, "HEAVY", SHIELDED, FOR BACKPLANE MOUNTING

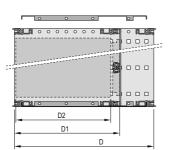


Without front handle

With front handle



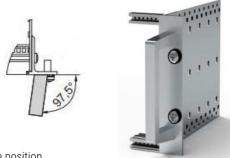
6 U



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



Rear horizontal rail for backplane mounting with insulation strip



Front handle position



• Subrack with side panel type H ("heavy"), 19" bracket is firmly fixed to side panel (tox-cold welded)

- · Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is closed with sealed front panels
- Shock and vibration resistance up to 5 g
- Installed load up to 15 kg
- · Versions with/without front handles

DELIVERY COMPRISES (Kit)

135906896

06111058

06113055

| ltem | Qty | | Description |
|------|-----|-----|--|
| | 3 U | 6 U | |
| 1 | 2 | 2 | Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC gasket |
| 2 | 2 | 2 | Rear corner profile for textile EMC gasket |
| 3 | 2 | 2 | Front horizontal rail (H-KD) |
| За | 2 | 2 | Rear horizontal rail (H-KD) |
| 3 b | 2 | 2 | Rear horizontal rail (H-ST) |
| 3 c | - | 1 | Rear horizontal rail centre (ST) |
| 4 | 6 | 8 | Threaded insert (pre-fitted) |
| 5 | 2 | 2 | Perforated strip (pre-fitted) |
| б | 2 | 4 | Insulation strip (pre-fitted) |
| 7 | 2 | 2 | EMC cover plate |
| 8 | 1 | 1 | EMC gasketing material (pre-fitted) |
| 9 | 1 | 1 | EMC rear panel |
| 10 | 1 | 1 | Fixing material kit, user manual |
| 11 | 2 | 2 | Front handle, angled version (on version with front handle only) |

ORDER INFORMATION

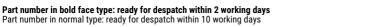
| Height U | Width HP | Depth D mm | Depth D1 mm | Part no. with front handle | Part no. without front handle | | | |
|-------------|--|---------------|----------------|----------------------------------|-------------------------------------|--|--|--|
| 3 | 84 | 235 | 175 | 24567-172 | 24563-172 | | | |
| 3 | 84 | 295 | 175/235 | 24567-173 | 24563-173 | | | |
| 3 | 84 | 355 | 175/235/295 | 24567-174 | 24563-174 | | | |
| 6 | 84 | 235 | 175 | 24567-472 | 24563-472 | | | |
| 6 | 84 | 295 | 175/235 | 24567-473 | 24563-473 | | | |
| 6 | 84 | 355 | 175/235/295 | 24567-474 | 24563-474 | | | |
| Access | Accessories | | | | | | | |
| | 19" assembly kit (screw, washer, nut) 8 × screws, 8 × plastic washers, 8 × cage nuts) | | | | | | | |

1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x **21102-105** 1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x 21102-107

| Guide rails (standard), ESD clips Depth D2 | Qty/PU | Part no. |
|---|----------|-----------|
| mm | piece | |
| 160 | 10 | 24568-361 |
| 220 | 10 | 24568-362 |
| 280 | 10 | 24568-379 |
| ESD clip for guide rails PU 50 pieces | | 24560-255 |
| Torx panhead screw , for extra bolting of the zinc-plated, PU 100 pieces; torque max. 0.1 | U | 24560-141 |

Remark:

- ServicePLUS from page 6.20
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)
 - The handle are screwed from the rear side of the 19" bracket





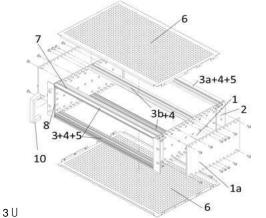


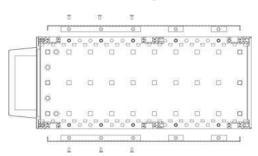




NEW

With front handle







Rear horizontal rail for backplane mounting directly



Front handle position

- · Advanced EMC subrack with significantly improved RF-shielding (on average 45%), tested i.a.w. with EN 61000-5-7* Pending
- Top and bottom covers with EMC and airflow optimized perforation, fulfills fire safety requirements i.a.w. EN 62368-1.
- Additional side panel covers, for an increased lateral RF-shielding.
- · Horizontal rails and side panels of type H ("Heavy")
- Rear horizontal rail for backplane mounting without insulation strip.
- Shock and vibration resistance up to 5 g i.a.w. EN 61373
- Installation load up to 15 kg
- IP20, in accordance with IEC 60529

DELIVERY COMPRISES (Kit)

| ltem | Qty 3 U | Description |
|------------|------------|---|
| 1 | 2 | Side panel type H, Al, 2 mm, passivated,with 19" support bracket (tox-cold welded) for textile EMC or stainless steel gaskets |
| 1 a | 2 | Advanced EMC side panel cover, Al, 3mm, passivated |
| 2 | 2 | Rear corner profile for textile EMC gasket |
| 3 | 2 | Front horizontal rail (H-KD) |
| 3а | 2 | Rear horizontal rail (H-KD) |
| 3 b | 2 | Rear horizontal rail (H-VT) |
| 3 c | - | Rear horizontal rail centre (VT) |
| 4 | б | Threaded insert (pre-fitted) |
| 5 | 2 | Perforated strip (pre-fitted) |
| 6 | 2 | Advanced EMC cover plate, perforation diameter Ø2.3mm, |
| 7 | 1 | EMC gasketing material (pre-fitted) |
| 8 | 1 | Stainless and textile gasket for front / rear shielding |
| 9 | 1 | Fixing material kit, user manual |
| 10 | 2 | Front handle, angled version (on version with front handle only) |

ORDER INFORMATION

| U Height | HP Width | Depth D mm | Depth D1 mm | Part no. with front handle | Part no. without front handle |
|-------------|-------------|---------------|-----------------|----------------------------------|-------------------------------------|
| 3 | 84 | 235 | 175 | 2456 3-900 | 24563- 950 |
| 3 | 84 | 295 | 175 / 235 | 2456 3-901 | 24563- 951 |
| 3 | 84 | 35 5 | 175 / 235 / 295 | 2456 3-903 | 24563-953 |

Accessories

| 19" assembly kit (screw, washer, nut) | 01100 405 |
|---|-----------|
| 9 y porova 9 y plastia washara 9 y paga puta) | 21100-435 |

8 × screws, 8 × plastic washers, 8 × cage nuts)

1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x 21102-105 1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x **21102-107**

| Guide rails (standard), ESD clips Depth D2 mm | Qty/PU piece | Part no. |
|--|------------------------|-----------|
| 160 | 10 | 24568-361 |
| 220 | 10 | 24568-362 |
| 280 | 10 | 24568-379 |
| ESD clip for guide rails PU 50 pieces | 24560-255 | |
| Torx panhead screw , for extra bolting of th zinc-plated, PU 100 pieces; torque max. 0.2 | 24560-141 | |

Remark:

- Please order the rear panel and front panels separatly
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)

The handle are screwed from the rear side of the 19" bracket SCHROFF PRODUCT CATALOG 04 / 2025

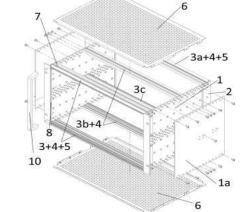


ADVANCED EMC, KIT "HEAVY", FOR BACKPLANE MOUNTING



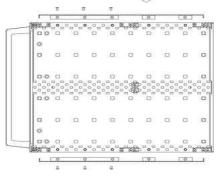
Without front handle





6 U

NEW





Rear horizontal rail for backplane mounting directly



Front handle position

- Top and bottom covers with EMC and airflow optimized perforation, fulfills fire safety requirements i.a.w. EN 62368-1.
- Additional side panel covers, for an increased lateral RF-shielding.
- · Horizontal rails and side panels of type H ("Heavy")
- Rear horizontal rail for backplane mounting without insulation strip.
- · Shock and vibration resistance up to 5 g i.a.w. EN 61373
- Installation load up to 15 kg
- · IP20, in accordance with IEC 60529

DELIVERY COMPRISES (Kit)

| Item | Qty | Description |
|------------|-----|---|
| | 6 U | |
| 1 | 2 | Side panel type H, Al, 2 mm, passivated,with 19" support bracket (tox-cold welded) for textile EMC or stainless steel gaskets |
| 1 a | 2 | Advanced EMC side panel cover, Al, 3mm, passivated |
| 2 | 2 | Rear corner profile for textile EMC gasket |
| 3 | 2 | Front horizontal rail (H-KD) |
| 3а | 2 | Rear horizontal rail (H-KD) |
| 3 b | 2 | Rear horizontal rail (H- V T) |
| 3 c | 1 | Rear horizontal rail centre (VT) |
| 4 | 6 | Threaded insert (pre-fitted) |
| 5 | 2 | Perforated strip (pre-fitted) |
| б | 2 | Advanced EMC cover plate, perforation diameter Ø2.3mm, |
| 7 | 1 | EMC gasketing material (pre-fitted) |
| 8 | 1 | Stainless and textile gasket for front / rear shielding |
| 9 | 1 | Fixing material kit, user manual |
| 10 | 2 | Front handle, angled version (on version with front handle only) |

ORDER INFORMATION

| U Height | HP Width | Depth D mm | Depth D1 mm | Part no. with front handle | Part no. without front handle |
|-------------|-------------|---------------|-----------------|----------------------------------|-------------------------------------|
| 6 | 84 | 235 | 175 | 2456 3-9 1 0 | 24563- 960 |
| 6 | 84 | 295 | 175/235 | 2456 3-9 1 1 | 24563- 961 |
| 6 | 84 | 35 5 | 175 / 235 / 295 | 2456 3-913 | 24563-963 |

Accessories

| 19" assembly kit (screw, washer, nut) | 21100-435 |
|---|-----------|
| 8 × screws, 8 × plastic washers, 8 × cage nuts) | 21100-435 |

1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x 21102-105 1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x 21102-107

| Guide rails (standard), ESD clips Depth D2 mm | Qty/PU piece | Part no. |
|--|------------------------|-----------|
| 160 | 10 | 24568-361 |
| 220 | 10 | 24568-362 |
| 280 | 10 | 24568-379 |
| ESD clip for guide rails PU 50 pieces | 24560-255 | |
| Torx panhead screw , for extra bolting of t zinc-plated, PU 100 pieces; torque max. 0. | 24560-141 | |

Remark:

- Please order the rear panel and front panels separatly
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)

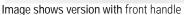
The handle are screwed from the rear side of the 19" bracket

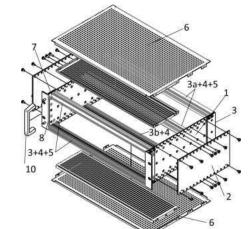


ADVANCED EMC PLUS, KIT "HEAVY", FOR DIRECT BACKPLANE MOUNTING

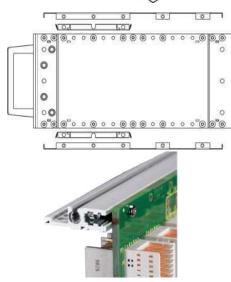








3 U



Rear horizontal rail for backplane mounting directly



- And

Front handle position

- Advanced EMC subrack with significantly improved RF-shielding (on average 60%), tested i.a.w. with EN 61000-5-7
- Dual Mesh top and bottom covers with EMC and airflow optimized
 performance fulfille fire cofety requirements in a wr EN 62268 1
- perforations, fulfills fire safety requirements i.a.w. EN 62368-1.Additional side panel covers, for an increased lateral RF-shielding.
- Horizontal rails and side panels of type H ("Heavy")
- Rear horizontal rail for backplane mounting without insulation strip.
- Shock and vibration resistance up to 5 g i.a.w. EN 61373
- Installation load up to 15 kg
- IP20, in accordance with IEC 60529

DELIVERY COMPRISES (Kit)

| Item | Qty 3 U | Description |
|------------|------------|---|
| 1 | 2 | Side panel type H, Al, 2 mm, passivated,with 19" support bracket (tox-cold welded) for textile EMC or stainless steel gaskets |
| 1 a | 2 | Advanced EMC side panel cover, Al, 3mm, passivated |
| 2 | 2 | Rear corner profile for textile EMC gasket |
| 3 | 2 | Front horizontal rail (H-KD) |
| 3а | 2 | Rear horizontal rail (H-KD) |
| 3 b | 2 | Rear horizontal rail (H-VT) |
| 3 c | - | Rear horizontal rail centre (VT) |
| 4 | 6 | Threaded insert (pre-fitted) |
| 5 | 2 | Perforated strip (pre-fitted) |
| 6 | 2 | Advanced EMC Plus cover plates, perforation diameter Ø 2.3mm, with additional mesh cover |
| 7 | 1 | EMC gasketing material (pre-fitted) |
| 8 | 1 | Stainless and textile gasket for front / rear shielding |
| 9 | 1 | Fixing material kit, user manual |
| 10 | 2 | Front handle, angled version (on version with front handle only) |

ORDER INFORMATION

| U Height | HP Width | Depth D mm | Depth D1 mm | Part no. with front handle | Part no. without front handle |
|-------------|-------------|---------------|----------------|----------------------------------|-------------------------------------|
| 3 | 84 | 235 | 175 | 24563-920 | 24563-970 |
| 3 | 84 | 295 | 175 | 24563-921 | 24563-971 |
| 3 | 84 | 355 | 175 | 24563-923 | 24563- 973 |
| 3 | 84 | 295 | 235 | 24563-922 | 24563-972 |
| 3 | 84 | 355 | 235 | 24563-924 | 24563-974 |
| 3 | 84 | 355 | 295 | 24563-925 | 24563-975 |

Accessories

| 19" assembly kit (screw, washer, nut) | 21100-435 |
|---------------------------------------|-----------|
| | |

 $8 \times$ screws, $8 \times$ plastic washers, $8 \times$ cage nuts)

1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x21102-1051 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x21102-107

| Guide rails (standard), ESD clips Depth D2 mm | Qty/PU piece | Part no. |
|---|------------------------|-----------|
| 160 | 10 | 24568-361 |
| 220 | 10 | 24568-362 |
| 280 | 10 | 24568-379 |
| ESD clip for guide rails PU 50 pieces | 24560-255 | |
| Torx panhead screw , for extra bolting of the zinc-plated, PU 100 pieces; torque max. 0.2 | 24560-141 | |

Remark:

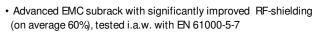
- Please order the rear panel and front panels separatly
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)

The handle are screwed from the rear side of the 19" bracket



ADVANCED EMC PLUS KIT "HEAVY", FOR DIRECT BACKPLANE MOUNTING





- Dual Mesh top and bottom covers with EMC and airflow optimized
- perforation, fulfills fire safety requirements i.a.w. EN 62368-1.
- Additional side panel covers, for an increased lateral RF-shielding.
- Horizontal rails and side panels of type H ("Heavy")
- Rear horizontal rail for backplane mounting without insulation strip.
- Shock and vibration resistance up to 5 g i.a.w. EN 61373
- Installation load up to 15 kg
- IP20, in accordance with IEC 60529

DELIVERY COMPRISES (Kit)

| Item | Qty 3 U | Description |
|------------|------------|---|
| 1 | 2 | Side panel type H, Al, 2 mm, passivated,with 19" support bracket (tox-cold welded) for textile EMC or stainless steel gaskets |
| 1 a | 2 | Advanced EMC side panel cover, Al, 3mm, passivated |
| 2 | 2 | Rear corner profile for textile EMC gasket |
| 3 | 2 | Front horizontal rail (H-KD) |
| 3а | 2 | Rear horizontal rail (H-KD) |
| 3 b | 2 | Rear horizontal rail (H-VT) |
| 3 c | - | Rear horizontal rail centre (VT) |
| 4 | 6 | Threaded insert (pre-fitted) |
| 5 | 2 | Perforated strip (pre-fitted) |
| 6 | 2 | Advanced EMC Plus cover plates, perforation diameter Ø 2.3mm, with additional mesh cover |
| 7 | 1 | EMC gasketing material (pre-fitted) |
| 8 | 1 | Stainless and textile gasket for front / rear shielding |
| 9 | 1 | Fixing material kit, user manual |
| 10 | 2 | Front handle, angled version (on version with front handle only) |

ORDER INFORMATION

| U Height | HP Width | Depth D mm | Depth D1 mm | Part no. with front handle | Part no. without front handle |
|-------------|-------------|---------------|----------------|----------------------------------|-------------------------------------|
| 6 | 84 | 235 | 175 | 2456 3-930 | 24563- 980 |
| 6 | 84 | 295 | 175 | 2456 3-931 | 24563- 981 |
| 6 | 84 | 355 | 175 | 2456 3-933 | 24563- 983 |
| 6 | 84 | 295 | 235 | 2456 3-932 | 24563- 982 |
| 6 | 84 | 355 | 235 | 2456 3-934 | 24563- 984 |
| 6 | 84 | 355 | 295 | 2456 3-935 | 24563- 985 |

Accessories

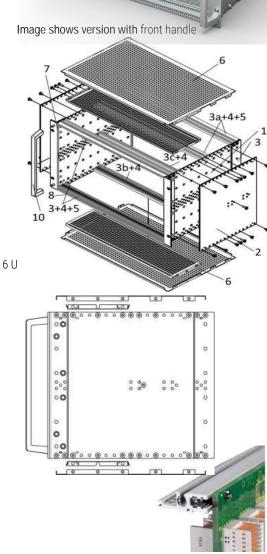
| 19" assembly kit (screw, washer, nut) 8 × screws, 8 × plastic washers, 8 × cage nuts) | 21100-435 |
|--|-----------|
| | |

1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x21102-1051 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x21102-107

| Guide rails (standard), ESD clips Depth D2 mm | Qty/PU piece | Part no. |
|---|------------------------|-----------|
| 160 | 10 | 24568-361 |
| 220 | 10 | 24568-362 |
| 280 | 10 | 24568-379 |
| ESD clip for guide rails PU 50 pieces | 24560-255 | |
| Torx panhead screw, for extra bolting of t zinc-plated, PU 100 pieces; torque max. 0. | 24560-141 | |

Remark:

- Please order the rear panel and front panels separatly
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)
 - The handle are screwed from the rear side of the 19" bracket



Rear horizontal rail for backplane mounting directly





KIT, "FLEXIBLE", FOR COMPACTPCI, FOR BACKPLANE MOUNTING, WITHOUT REAR I/O, SHIELDED

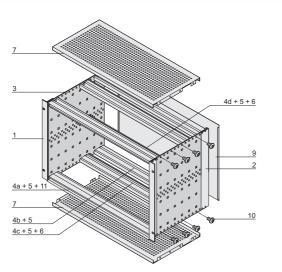
13490882

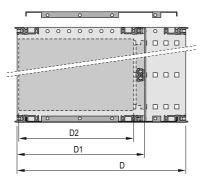
06102078

06113055



6 U





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



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible") for CompactPCI plug-in units with high insertion and withdrawal forces
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is covered with shielded front panels
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

| Item | Qty | | Description |
|------|-----|-----|---|
| | 3 U | 6 U | |
| 1 | 2 | 2 | 19" support bracket for EMC textile gasket |
| 2 | 2 | 2 | Rear corner profile for EMC textile gasket |
| 3 | 2 | 2 | Side panel type F |
| 4 | 1 | - | Front horizontal rail (H-KD) |
| 4 a | 1 | 2 | Front horizontal rail IEEE (H-LD) |
| 4 b | 2 | 2 | Rear horizontal rail (L-KD) |
| 4 c | 2 | 2 | Rear horizontal rail (H-ST), for backplane mounting with insulation strip |
| 4 d | - | 1 | Centre horizontal rail (ST) |
| 5 | 6 | 8 | Threaded insert (pre-fitted) |
| 6 | 2 | 4 | Insulation strip (pre-fitted) |
| 7 | 2 | 2 | EMC cover plate |
| 8 | 1 | 1 | EMC gasketing material (pre-fitted) |
| 9 | 1 | 1 | Rear panel |
| 10 | 1 | 1 | Fixing material kit |
| 11 | 2 | 2 | Perforated strip (pre-fitted in item 4+4a) |
| 12 | 1 | 1 | User manual |

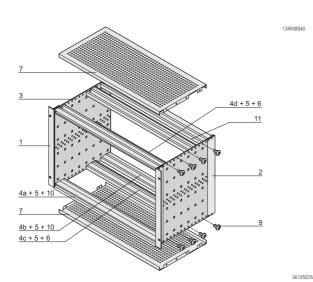
ORDER INFORMATION

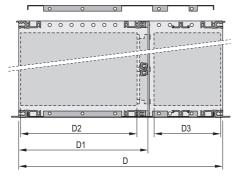
| Height | Width | Depth D | Depth D1 | Part no. |
|----------------|-------------------|---------------------|---------------------|---------------------|
| U | HP | mm | mm | |
| 3 | 84 | 235 | 175 | 24563-152 |
| 6 | 84 | 235 | 175 | 24563-452 |
| Accessorie | s | | | |
| Guide rail wit | h coding, red 16 | i0 mm deep, | | 24568-356 |
| PC, UL 94 V-0 |), groove width | 2 mm, PU 10 piece | es | 24308-330 |
| | h coding, grey 1 | | | 24568-358 |
| | | 2 mm, PU 10 piece | | 24000 000 |
| | 0.0 | , offset 160 mm de | | 24568-359 |
| PC, UL 94 V-0 |), groove width : | 2 mm, PU 10 piece | es | 21000 007 |
| ESD clip for g | juide rails PU 50 |) pieces | | 24560-255 |
| ESD clip for a | lignment pin of | CPCI/VME64x har | ndle PU 50 pieces | 24560-256 |
| Torx panhead | d screw 2.5 × 9. | 3, zinc-plated, | | 24560-141 |
| PU 100 piece | s; torque max. (|).2 Nm | | 24300-141 |
| Coding peg P | 20817-501 | | | |
| 19" assembly | 21100-435 | | | |
| 8 × screws, 8 | × plastic washe | ers, 8 × cage nuts) | | 21100-435 |
| 1 kit, EMC ga | sket stainless s | teel, for U-shaped | front panel, 3U, 10 |)x 21102-105 |
| 1 kit, EMC ga | sket stainless s | teel, for U-shaped | front panel, 6U, 10 | Dx 21102-107 |





6 U





D = overall depth, D1 = insertion depth,

D2 = board depth = D1 - 15 mm, D3 = rear I/O board depth



Rear horizontal rail for backplane mounting with insulation strip

• Subrack with side panel type F ("flexible") for CompactPCI plug-in units with high insertion and withdrawal forces

ent

SCHROFF

- For rear I/O boards (depth 80 mm)
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is covered with shielded front panels
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

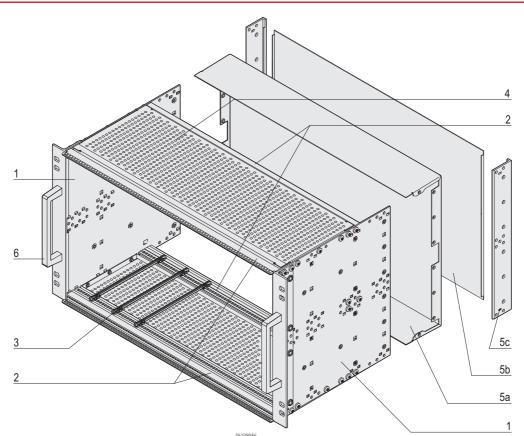
| ltem | Qty | | Description |
|------|-----|-----|--|
| | 3 U | 6 U | |
| 1 | 2 | 2 | 19" support bracket for EMC textile gasket |
| 2 | 2 | 2 | Rear corner profile for EMC textile gasket |
| 3 | 2 | 2 | Side panel type F |
| 4 | 1 | - | Front horizontal rail (H-KD) |
| 4 a | 1 | 2 | Front horizontal rail IEEE (H-LD) |
| 4 b | 2 | 2 | Rear horizontal rail (H-KD) |
| 4 c | 2 | 2 | Rear horizontal rail (H-ST), with insulation strip for backplane mounting |
| 4 d | - | 1 | Centre horizontal rail (ST) |
| 5 | 6 | 8 | Threaded insert (pre-fitted) |
| 6 | 2 | 4 | Insulation strip, fixed |
| 7 | 2 | 2 | EMC cover plate |
| 8 | 1 | 1 | EMC gasketing material (pre-fitted) |
| 9 | 1 | 1 | Fixing material kit |
| 10 | 2 | 2 | Perforated strip (pre-fitted) |
| 11 | 2 | 2 | Horizontal rail type AB |
| 12 | 1 | 1 | User manual |

ORDER INFORMATION

06108075

| Height | Width | Depth D | Depth D1 | Depth D3 | Part no. |
|--------------|------------------|-------------------|-----------------|----------------|-----------|
| U | HP | mm | mm | mm | |
| 3 | 84 | 275 | 175 | 80 | 24563-157 |
| б | 84 | 275 | 175 | 80 | 24563-457 |
| Accesso | ries | | | | |
| Guide rail | with coding, r | ed 160 mm dee | ep, | | 24568-356 |
| PC, UL 94 | V-0, groove w | idth 2 mm, PU | 10 pieces | | 24308-330 |
| | 0.0 | rey 160 mm de | | | 24568-358 |
| | . 0 | idth 2 mm, PU | • | | |
| | 0.0 | reen, offset 16 | | | 24568-359 |
| - | . 0 | ridth 2 mm, PU | 10 pieces | | |
| | or guide rails l | | | | 24560-255 |
| ESD clip fo | or alignment p | oin of CPCI/VM | E64x handle P | U 50 pieces | 24560-256 |
| Guide rail | with coding, r | ed 70 mm deep | o, PU 10 piece | S | 24568-357 |
| Guide rail | with coding, g | rey 70 mm dee | ep, PU 10 piece | es | 24568-360 |
| Torx panh | ead screw 2.5 | 5 × 9.3, zinc-pla | ted, PU 100 pi | eces; torque | 24560-141 |
| max. 0.2 N | lm | | | | 24300-141 |
| Coding pe | g PC, UL 94 V | -0, RAL 7035, F | PU 100 pieces | | 20817-501 |
| 19" fixing r | material kit (s | crew, washer, i | nut) (| | 01100 405 |
| 8 × screws | | 21100-435 | | | |
| 1 kit, EMC | gasket stainl | ess steel, for U | -shaped front | panel, 3U, 10x | 21102-105 |
| 1 kit, EMC | gasket stainl | ess steel, for U | l-shaped front | panel, 6U, 10> | 21102-107 |

OVERVIEW OF INDIVIDUAL COMPONENTS FOR SHIELDED OR UNSHIELDED SUBRACKS

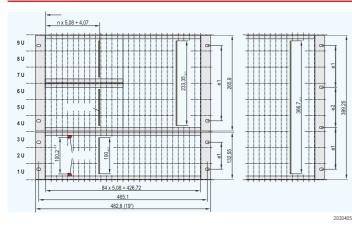


| Item | Description | Description | 0000 |
|--------|--|---|----------------------|
| Item 1 | Side panel | Establishes the height and depth of the subrack; Al, 2 mm, with universal hole positions for assembly of accessories. Three versions: The "flexible" one with separate 19" brackets as well as two others with integrated 19" brackets for "light" and "heavy" applications. | page 6.2 4 |
| Item 2 | Horizontal rail | Establishes the width of the subrack; Al extrusion, with defined hole positions for guide rails, grooves for threaded inserts, M4 thread, functional rail shapes, basically differing with regard to their mechanical loading capacity: "light" (load up to 7.5 kg) and "heavy" (load > 7.5 kg). | 6.30 |
| ltem 3 | Guide rails | Act as interface between subracks and boards, for different board formats, are available in plastic or metal, optionally codable and can be fitted with ESD clips to allow electrostatic discharge, also optionally. | 6.3 9 |
| Item 4 | Cover plates | Provide mechanical protection and/or EMC shielding and are perforated. | 6.48 |
| Item 5 | Rear/front | Rear hood (5a) or front panel (5b) with corner profile (5c) act as support for EMC shielding gaskets used in conjunction with shielded front panels. Note: Rear hood and corner profile cannot be fitted simultaneously. | 6. 56 |
| ltem 6 | Handles | Can be mounted on the 19" brackets. | 6.2 9 |
| - | EMC shielding (without illustration) | Extensive component range for specific shielding of subracks with respect to their application. | 6.57 |
| - | Interior assemblies (without illustration) | Universal assemblies, e.g. for horizontal and vertical assembly and for mounting plates. | 6.76 |





SUBRACK DIMENSIONS



- Dimensions in accordance with international standards • EC 60297-3-100, IEEE 1101.1/.10/.11; please see the SCHROFF Standards Summary for details
- Side panels
 - Aluminium, 2 mm •
 - Round holes for mounting horizontal rails (depth grid 15 mm)
 - Impressions on the inner side of the side panel act as an • anti-rotation guard and positioning aid for the horizontal rails
 - Square holes (6 x 6 mm) provide universal fixing for components such as backplane shielding; version without square holes available on request

Depth grid

The depth grid is 15 mm, the mounting holes in the side panel are decisive for the configurability of individual components; thus any combination of various individual parts is possible

06197003

3 and 6 U side panels have the same hole positions (the 6 U is a doubling vertically of the 3 U); thus subdivisions can be made in the vertical dimension (6 U: 2 x 3 U; 9 U: 3 x 3 U)



Side panel 4 U

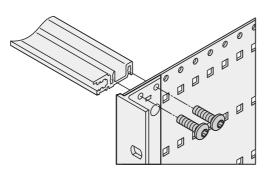
Side panel 3 U, 6 U and 9 U

4 U side panels have the same hole positions as 3 U and additionally 1 U (above or beneath the 3 U installation); this height allows the construction of a 3 U unit with 1 U clearance for cabling or airflow

0610801



SIDE PANELS



Side panel - horizontal rail assembly

- Aluminium
- Round holes for mounting horizontal rails (depth grid 15 mm)
- Impressions on the inner side of the side panel act as an • anti-rotation guard and positioning aid for the horizontal rails
- Square holes (6 x 6 mm) provide universal fixing for components such as ٠ backplane shielding; version without square holes available on request
- Only one type of screw driver (T20) is needed for the assembly Torx panhead screw, M4 x 14; Torque side panel - horizontal rail 2.4 Nm; Torque side panel - cover plate 1.3 Nm
- 4 versions of the side panel:
 - Type F = flexibleType H = heavy

06108062

- Type L = light
- Type R = rugged







Type F (flexible)

- Universal version: 19" bracket (please order separately) can be fitted variably to front, rear or depth-offset
- Heights: 3, 4, 6 and 9 U Depths: 175, 235, 275, 277.75, 295, 355, 415 and 475 mm; Other dimensions on request
- 2 EMC shielding concepts for the front/rear: stainless steel or textile EMC gasket
- 06197003 Installed load up to 11 kg

Type H (heavy)

- 19" bracket is tox-cold welded to side panel; particularly designed for mechanically demanding environments (vibration resistance, applications requiring high levels of shock and vibration, e.g. IEC 61587-2)
- Heights: 3 and 6 U Depths: 175, 235, 295 and 355 mm Other dimensions on request
- 2 EMC shielding concepts for the front/rear: with stainless steel or textile EMC gasekt
 - Installed load up to 15 kg

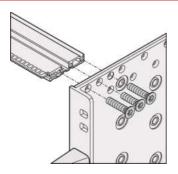
Type L (light)

06197004

- · Side panel with moulded 19" bracket, for standard applications, unshielded
- Particularly cost-effective version (not suitable for EMC applications)
- Heights: 3 and 6 U Depths: 175, 235 and 295 mm Other dimensions on request
- 06197002 Installed load up to 7.5 kg



SIDE PANELS



Example shows:

Side panel type rugged to horizontal rail type rugged



• Aluminium

06112056

08230769

- Round holes for mounting horizontal rails (depth grid 15 mm)
- Impressions on the inner side of the side panel act as an anti-rotation guard and positioning aid for the horizontal rails
- Square holes (6 x 6 mm) provide universal fixing for components such as backplane shielding; version without square holes available on request
- Only one type of screw driver (T20) is needed for the assembly. Torx countersunk screw, M4 x 18; (with thread locking compound) Torque side panel - horizontal rail 2.4 Nm; Torque side panel - cover plate 1.3 Nm)

Type R (rugged)

- 19" bracket (3,5mm) is tox-cold welded to side panel (3mm); particularly designed for mechanically demanding environments.
- Shock and vibration tested in compliance with: DIN EN 61587 -DL3 up to 25g MIL 167, MIL 810G, MIL 901D.
 Shock and vibration resistant in all three axial directions.
- Heights: 3 and 6 U Depths: 175, 235, 275, 277,75, 295 and 355 mm. Other dimensions on request
- **One** EMC shielding concepts for front/rear side: Textile EMC gasket (-40°C up to +85°C)
- Installed load up to 25 kg



SIDE PANELS TYPE F FOR STAINLESS STEEL GASKET

ORDER INFORMATION

| | | | Side panel type F | 19" bracket without handle holes | 19" bracket with handle holes | 19" bracket depth- adjustable | EMC gasket (stainless steel) | Rear angle | Side panel connection |
|---------------------|-----------|---|--|---|---|-------------------------------------|--|--|--|
| | | | 06197003 | e e bza45819 | 06106050 | 06102501 | Jo J BGA45760 | BZ445573 | Contraction of the contraction o |
| | | GN D A A A A A A A A A A | without 19" bracket, Al, 2 mm, passivated, please order 19' bracket and corner profile separately | with lateral grooves for stainless steel EMC gasket, Al extrusion, rear side etched, front anodised | with lateral grooves for stainless steel EMC gasket, Al extrusion, rear side etched, front anodised please order front handles separately, | Al extrusion, passivated | inserted laterally into the grooves of the front panel | Al extrusion, surface clear passivated; with lateral grooves for stainless steel EMC gasekt; rear hood cannot be mounted simultaneously | Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other) |
| Height | Depth | | | DU 4 | | DU 4 | DU 10 | | |
| U 3 | mm 175 | | 1 piece 34560-185 | PU 1 pair | PU 1 pair | PU 1 pair | PU 10 pieces | PU 1 pair | PU 4 pieces |
| 3 | 235 | | 34560-185 | | | | | | |
| 3 | 275 | 1) | 34579-300 | | | | | | |
| 3 | 277.75 | , | 34579-002 | | | | | | |
| 3 | 295 | 2) | 34560-189 | 24560-197 | 24560-198 | 24560-199 | 21101-705 | 24561-198 | 21101-954 |
| 3 | 355 | | 34560-191 | | | | | | |
| 3 | 415 | | 34560-193 | | | | | | |
| 3 | 475 | | 34560-195 | | | | | | |
| 4 | 175 | 3) | 34560-285 | | | | | | |
| 4 | 235 | 3) | 34560-287 | | | | | | |
| 4 | 295 | 3) | 34560-289 | | | | | | |
| 4 | 355 | | 34560-291 | 24560-297 | 24560-298 | 24560-299 | 21101-713 | 24561-298 | 21101-954 |
| 4 | 415 | 3) | 34560-293 | | | | | | |
| 4 | 475 | , | 34560-295 | | | | | | |
| 6 | 175 | , | 34560-485 | | | | | | |
| 6 | 235 | | 34560-487 | | | | | | |
| 6 | 275 | 1) | 34579-038 | | | | | | |
| 6 | 277.75 | 2) | 34579-012 | | | | | | |
| б | 295 | | 34560-489 | 24560-497 | 24560-498 | 24560-499 | 21101-707 | 24561-498 | 21101-954 |
| 6 | 355 | | 34560-491 | | | | | | |
| б | 415 | | 34560-493 | | | | | | |
| б | 475 | | 34560-495 | | | | | | |
| 6 | 970 | | 34560-496 | | | | | | |
| 9 | 175 | | 34560-785 | | | | | | |
| 9 | 235 | | 34560-787 | | | | | | |
| 9 | 295 | | 34560-789 | 24560-797 | 24560-798 | 24560-799 | 21101-709 | 24561-798 | 21101-954 |
| 9 | 355 | | 34560-791 | | | | | | |
| 9 | 415 | | 34560-793 | | | | | | |
| fastenir side pa | | | 24560-130 | 24560-130 | 24560-130 | 24560-130 | - | 24560-130 | - |
| guide ra PU 100 | | | 24560-155 | 24560-155 | 24560-155 | 24560-155 | - | 24560-155 | - |

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U

• View of side panels 3, 4, 6, 9 U see page 6.22

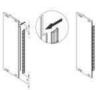


SIDE PANELS TYPE F FOR TEXTILE EMC GASKET

ORDER INFORMATION

| Illustration s VME or Com | hows standard assembly, no pactPCI bus with rear I/O | ot Side panel type F | 19" bracket without handle holes | 19" bracket with handle holes | 19" bracket depth- adjustable | EMC gasket (textile) | Rear angle | Side panel connection |
|------------------------------|---|--|--|--|-------------------------------------|--|---|---|
| | | oci9700. without 19" bracket, Al, 2 mm, passivated, please order 19" bracket and corner profile separately | Al extrusion for textile EMC gasket rear side etched, front anodised | Al extrusion for textile EMC gasket, rear side etched, front anodised, please order front handles separately, see page 6.27 | Al extrusion, passivated | U4602054 textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0 | Al extrusion, etched; for textile EMC gasket | Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other) |
| Height | 06108054 06108 Depth | 062 | | | | | | |
| U | mm | 1 piece | PU 1 pair | PU 1 pair | PU 1 pair | PU 10 pieces | PU 1 pair | PU 4 pieces |
| 3 | 175 | 34560-185 | | | | | | |
| 3 | 235 | 34560-187 | | | | | | |
| 3 | 275 1) | 34579-300 | | 24564-198 | | 21101-853 21101-858 | 24564-199 24564-299 | 21101-954 21101-954 |
| 3 | 277.75 2) | 34579-002 | 24564-197 | | 24560-199 24560-299 | | | |
| 3 | 295 | 34560-189 | | | | | | |
| 3 | 355 | 34560-191 | | | | | | |
| 3 | 415 | 34560-193 | | | | | | |
| 3 | 475 175 3) | 34560-195 | | | | | | |
| 4 | / | 34560-285 34560-287 | | | | | | |
| 4 | 235 3) 295 3) | 34560-287 | | | | | | |
| 4 | 355 3) | 34560-291 | 24564-297 | 24564-298 | | | | |
| 4 | 415 3) | 34560-293 | | | | | | |
| 4 | 475 3) | 34560-295 | | | | | | |
| 6 | 175 | 34560-485 | | | | | | |
| 6 | 235 | 34560-487 | | | | | | |
| 6 | 275 1) | 34579-038 | | | | | | |
| 6 | 277.75 2) | 34579-012 | | | | | | |
| 6 | 295 | 34560-489 | 24564-497 | 24564-498 | 24560-499 | 21101-855 | 24564-499 | 21101-954 |
| 6 | 355 | 34560-491 | | | | | | |
| 6 | 415 | 34560-493 | | | | | | |
| 6 | 475 | 34560-495 | | | | | | |
| 6 | 970 | 34560-496 | | | | | | |
| 9 | 175 | 34560-785 | | | | | | |
| 9 | 235 | 34560-787 | 04564 707 | 04564 700 | 04560 700 | 01101 050 | 04564 700 | 01101 054 |
| 9 9 | 295 355 | 34560-789 | 24564-797 | 24564-798 | 24560-799 | 21101-859 | 24564-799 | 21101-954 |
| 9 | 415 | 34560-791 34560-793 | | | | | | |
| = | x 14, PU 100 pieces, for | 34300-793 | | | | | | |
| | norizontal rail to | 24560-130 | 24560-130 | 24560-130 | 24560-130 | - | 24560-130 | _ |
| side panel | | | | | | | | |
| Screw, M4 | x 10, required if are screwed to slot 1, cces | 24560-155 | 24560-155 | 24560-155 | 24560-155 | - | 24560-155 | - |
| | tPCI 2) VME64x 3) Gri | d halaa of aida nanal | 2 . 1 | | | EMO goolyst at | | |

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U



EMC gasket stainless steel, for U-shaped front panel

 1 Kit, 3U, 10pcs
 21102-105

 1 Kit, 4U, 10pcs
 21102-113

 1 Kit, 6U, 10pcs
 21102-107

 1 Kit, 9U, 10pcs
 21102-107



SIDE PANELS TYPE H FOR STAINLESS STEEL EMC GASKET

ORDER INFORMATION

| | without handle holes | r stainless steel EMC ga with handle holes | esket EMC gasket (stainless steel) | Rear angle | Side panel connection |
|--|--|---|--|---|--|
| | 19" bracket, tox-cold welded, Al, 2 mm, clear passivated, front anodised | Al, 2 mm, clear passivated, front anodised, please order front handles separately see page 6.27 | | with lateral grooves for stainless steel EMC gasekt; rear hood cannot be mounted simultaneously | for connecting two by two side panels (on top of each other) |
| Height Depth U mm | DI 1 poir | PU 1 pair | PU 10 pieces | DU 1 poir | |
| U mm 3 175 | PU 1 pair 24566-125 | 24567-125 | Po to pieces | PU 1 pair | PU 4 pieces |
| 3 235 3 275 1) | 24566-125 24566-127 - | 24567-125 | | | |
| | | | 21101-705 | 24561-198 | 21101-954 |
| 3 295 | 24566-129 | 24567-129 | | | |
| 3 355 | 24566-131 | 24567-131 | | | |
| 3 415 | - | - | | | |
| 3 475 | - | - | | | |
| 4 175 3) | | | | | |
| 4 235 3) | | | | | |
| 4 295 3) | - | - | - | - | - |
| 4 355 3) | | | | | |
| 4 415 3) | | | | | |
| 4 475 3) | | | | | |
| 6 175 | 24566-425 | 24567-425 | | | |
| 6 235 | 24566-427 | 24567-427 | | | |
| 6 275 1) | - | - | | | |
| 6 277.75 2) | - | - | | | |
| 6 295 | 24566-429 | | 21101-707 | 24561-498 | 21101-954 |
| 6 355 | 24566-431 | 24567-431 | | | |
| 6 415 | - | - | | | |
| 6 475 | - | - | | | |
| 6 970 | - | - | | | |
| 9 175 | | | | | |
| 9 235 | | | | | |
| 9 295 | - | - | - | - | - |
| 9 355 | | | | | |
| 9 415 | | | | | |
| Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel | 24560-130 | 24560-130 | - | 24560-130 | - |
| Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces | 24560-155 | 24560-155 | - | 24560-155 | - |

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U



SIDE PANELS TYPE H FOR TEXTILE EMC GASKET

ORDER INFORMATION

| Illustration sho | ws standard assemb | ly, not | | for textile EMC gasket | | Rear angle | Side panel |
|-------------------------------------|--|-----------------|-----------------------|--|--------------------------------|------------------------|---|
| VME or CompactPCI bus with rear I/O | | without | with | EMC gasket | | connection | |
| | | | handle holes | handle holes | (textile) | | |
| | | | | | | | |
| | | | | | | | on on on o |
| | 7 | | A REAL PROPERTY AND | and the second s | | >1 | Canana and C |
| | 7 | | 0 | | | | |
| | 7 | | 1 | 1 | | | C C C C C C C C C C C C C C C C C C C |
| | | | and the second | and the second | | | |
| | | | Con a state | . Contraction | | | |
| | \ \ | | 06197004 | 06107001 | 04602054 | BZA46573 | BPA45867 |
| 1 ///br | | | for high | for high mechanical | textile gasket, | Al extrusion, | Zn die-cast, |
| | 9 | | mechanical | demands, 19" bracket, | core: foam, sleeve: textile | etched; for textile | incl. fixing material kit, |
| | | 0 | | | cladding with | EMC gasket | for connecting |
| | | 0 | | | CuNi coating, UL 94 V-0 | | two by two side panels |
| | | 0 6 | | | | | (on top of each |
| | | | | | | | other) |
| | Q P * | a 6 06108062 | | | | | |
| Height | Depth | 00108062 | | | | | |
| U | mm | | PU 1 pair | PU 1 pair | PU 10 pieces | PU 1 pair | PU 4 pieces |
| 3 | 175 | | 24564-145 | 24566-145 | | | |
| 3 | 235 | | 24564-147 | 24566-147 | | | |
| 3 | 275 | 1) | - | - | | | |
| 3 | 277.75 | 2) | - | - | 21101-853 | 24564-199 | 21101-954 |
| 3 | 295 | | 24564-149 | 24566-149 | 21101-055 | 24304-199 | 21101-954 |
| 3 | 355 | | 24564-151 | 24566-151 | | | |
| 3 | 415 | | - | - | | | |
| 3 | 475 | | - | - | | | |
| 4 | | 3) | | | | | |
| 4 | | 3) | | | | | |
| 4 | | 3) | - | - | - | - | - |
| 4 | | 3) | | | | | |
| 4 | | 3) | | | | | |
| 4 | 475 3 175 | 3) | 24564-445 | 24566-445 | | | |
| 6 | 235 | | 24564-445 | 24566-445 | | | |
| 6 | 235 275 | 1) | 24304-44/ | 24300-44/ | | | |
| 6 | 275 | 2) | _ | _ | | | |
| 6 | 295 | 2) | 24564-449 | 24566-449 | 21101-855 | 24564-499 | 21101-954 |
| 6 | 355 | | 24564-451 | 24566-451 | | | 21101-954 |
| 6 | 415 | | - | - | | | |
| 6 | 475 | | - | - | | | |
| 6 | 970 | | - | - | | | |
| 9 | 175 | | | | | | |
| 9 | 235 | | | | | | |
| 9 | 295 | | - | - | - | - | - |
| 9 | 355 | | | | | | |
| 9 | 415 | | | | | | |
| | 14, PU 100 pieces, | | | | | | |
| | izontal rail to side | | 24560-130 | 24560-130 | - | 24560-130 | - |
| panel | 10 | | | | | | |
| Screw, M4 x 7 | 10, required if e screwed to slot 1 | 1 | 24560-155 | 24560-155 | _ | 24560-155 | _ |
| PU 100 piece | | ', | 24300-133 | 24000-100 | | 24300-133 | |
| | |) Orid I | holes of side panel : | 2 1 | | | |

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U



EMC gasket stainless steel, for U-shaped front panel

1 Kit, 3U, 10pcs 21102-105 1 Kit, 4U, 10pcs 21102-113 1 Kit, 6U, 10pcs 21102-107 1 Kit, 9U, 10pcs 21102-109



SIDE PANELS TYPE L

ORDER INFORMATION

| | | Side panel type L | Front cover | Collar screw with slot for assembly of front cover | Sleeves for assembly of front cover | Side panel connection |
|-----------------------------|--|----------------------|--|---|---|---|
| | | 06197002 | BZA45810 | 196752559 | 135436402 | BPA45867 |
| | | Al, 2 mm, passivated | for decorative finish of 19" bracket, Al, 2 mm, anodised | M6 x 16, St, nickel-plated | PPE, black | Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other) |
| Height | Depth | 1 -: | 1 1 1 1 1 1 1 1 | | | |
| U 3 | mm 175 | 1 piece 34561-185 | 1 piece | PU 100 pieces | PU 100 pieces | PU 4 pieces |
| 3 | 235 | 34561-185 | | | | |
| 3 | | 34501-187 | | | | |
| 3 | 275 1) 277.75 2) | _ | | | | |
| | 295 | | 34561-197 | 21100-565 | 21100-566 | 21101-954 |
| 3 3 | 355 | 34561-189 | | | | |
| 3 | 415 | _ | | | | |
| 3 | 475 | _ | | | | |
| | | - | | | | |
| 4 | 175 3) | | | | | |
| 4 | 235 3) | | | | | |
| 4 | 295 3) | - | - | - | - | - |
| 4 | 355 3) | | | | | |
| 4 | 415 3) | | | | | |
| 4 | 475 3) | | | | | |
| 6 | 175 | 34561-485 | | | | |
| 6 | 235 | 34561-487 | | | | |
| 6 | 275 1) | - | | | | |
| 6 | 277.75 2) | - | | | | |
| 6 | 295 | 34561-489 | 34561-497 | 21100-565 | 21100-566 | 21101-954 |
| 6 | 355 | - | | | | |
| 6 | 415 | - | | | | |
| 6 | 475 | - | | | | |
| 6 | 970 | - | | | | |
| 9 | 175 | | | | | |
| 9 | 235 | | | | | |
| 9 | 295 | - | - | - | - | - |
| 9 | 355 | | | | | |
| 9 | 415 | | | | | |
| fastening hor side panel | | 24560-130 | - | - | - | - |
| Screw, M4 x | 10, required if e screwed to slot 1, s | 24560-155 | - | - | - | - |

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U



FRONT HANDLES, WALL-MOUNTING BRACKETS

ORDER INFORMATION

| Front h | | | | Front handle | lateration and the state | al a su a su a d'a a d | Wall-mounting bracket |
|---------|--------------------------|-----------|------------|--------------------------------|--------------------------------|--------------------------------|---|
| | usion, anodis | sed / bla | ck, | clear anodised, | black anodised, | clear anodised, | |
| | 12.2mm, arrying capad | oity 20 k | | straight version | straight version | angled version | |
| IUdu-Co | an ying capat | UILY SU K | y | | | | |
| | 2000 | and a | | | and transfer | And A State | |
| , w | | S. S. S. | 108230708 | S and | | O de la contraction | 06104063 |
| < = = | | \$ | | | | | Al, 2.5 mm, passivated; 06104063 bolted to subrack in place of |
| Height | Depth | A = H | Е | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | the 19" bracket |
| U 3 | mm 175 | mm 102 | mm 88.0 | T piece (SPQ TU) | | T piece (SPQ TU)* | PU 1 pair |
| 3 | 235 | 102 | 88.0 | | | | |
| 3 | 235 | 102 | 88.0 | | | | |
| 3 | 275 | 102 | 88.0 | | | | |
| 3 | 277.75 | 102 | 88.0 | 10501-005 | 10501-026 | 10501-020 | 24562-197 |
| 3 | 355 | 102 | 88.0 | | | | |
| 3 | 415 | 102 | 88.0 | | | | |
| 3 | 415 | 102 | 88.0 | | | | |
| 3 | 175 | 102 | 133.4 | | | | |
| 4 | 235 | 140 | 133.4 | | | | |
| 4 | 235 | 140 | 133.4 | | | | |
| | | | | 10501-018 | - | 10501-021 | 24562-297 |
| 4 | 355 | 146 | 133.4 | | | | |
| 4 | 415 | 146 | 133.4 | | | | |
| 4 | 475 | 146 | 133.4 | | | | |
| 6 | 175 | 249 | 235.0 | | | | |
| 6 | 235 | 249 | 235.0 | | | | |
| 6 | 275 | 249 | 235.0 | | | | |
| 6 | 277.75 | 249 | 235.0 | | | | 04540 407 |
| 6 | 295 | 249 | 235.0 | 10501-008 | 10501-029 | 10501-022 | 24562-497 |
| 6 | 355 | 249 | 235.0 | | | | |
| 6 | 415 | 249 | 235.0 | | | | |
| 6 | 475 | 249 | 235.0 | | | | |
| 6 | 970 | 249 | 235.0 | | | | |
| 9 | 175 | 249 | 235.0 | | | | |
| 9 | 235 | 249 | 235.0 | 10501 001 | 10501 000 | 10501 000 | 04560 707 |
| 9 | 295 | 249 | 235.0 | 10501-00 | 10501-029 | 10501-022 | 24562-797 |
| 9 | 355 | 249 | 235.0 | | | | |
| 9 | 415 | 249 | 235.0 | A 17 1A 17 5 | | | |
| | M5 x 12, PU | | | 24560-183 | 24560-183 | 24560-183 | _ |
| | M5 x 12, PU | | | 24560-18: | 24560-182 | 24560-182 | - |
| Screw, | M4 x 14, PU | 100 piec | ces | - | - | | 24560-130 |

1) 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



H-KD

H-LD

HORIZONTAL RAILS



light

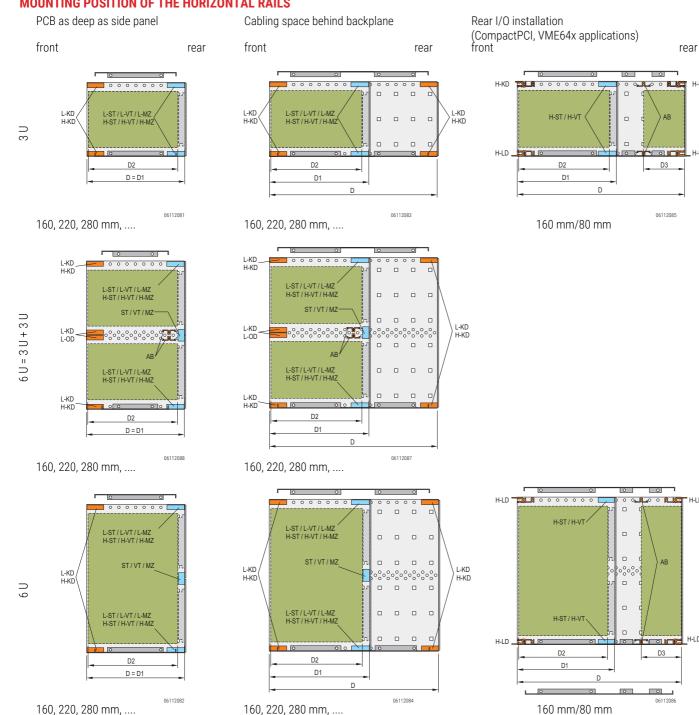
06197007

heavy

0619700

rugged

- Aluminium profile, surface anodised, conductive contact surfaces for EMC gaskets
- The horizontal rail is marked with sequential numbering (for sizes > 28 HP) to facilitate positioning of the guide rails
- Horizontal rails are fixed to the side panel using M4 bolts with • torx 20 drive
- There are 3 different horizontal rails for different loading levels light, for up to 7.5 kg •
 - heavy, for 7.5 kg to 15 kg •
 - rugged, for 15 kg to approx. 25kg •



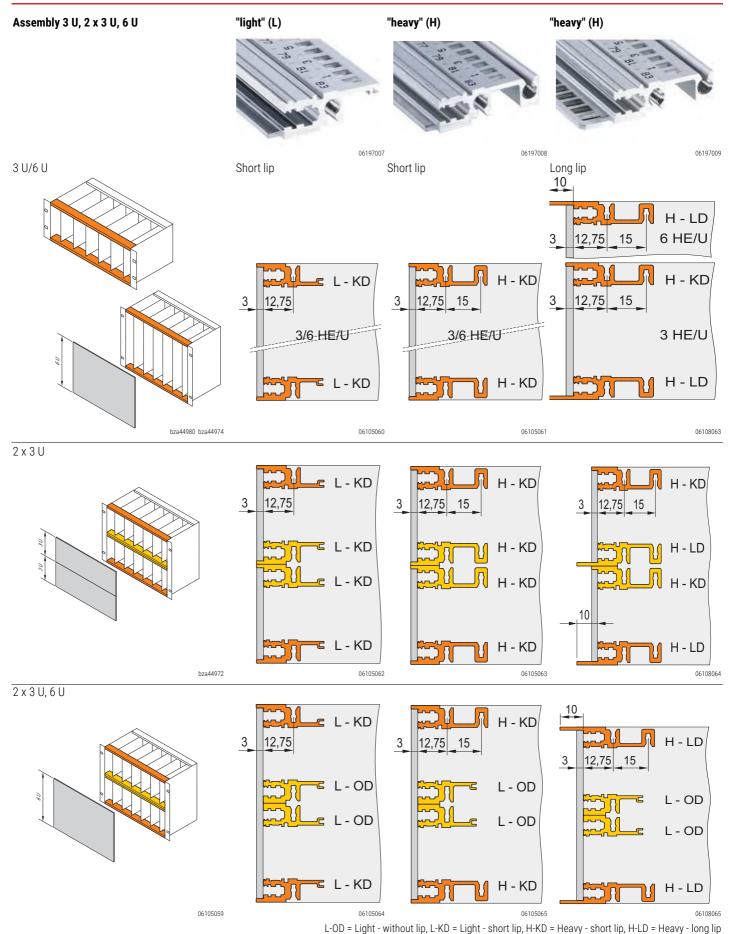
MOUNTING POSITION OF THE HORIZONTAL RAILS

H-LD

H-LD



FRONT HORIZONTAL RAILS



Part number in bold face type: ready for despatch within 2 working days Part number in normal type: ready for despatch within 10 working days



FRONT HORIZONTAL RAILS

ORDER INFORMATION

| | | "light" Type L-OD without lip | "light" Type L-KD short lip | "heavy" Type H-KD short lip | With long lip for insertion/ extraction of CompactPCI and VME64x boards "heavy" Type H-LD long lip |
|---|------------|---|---|---|---|
| | | | AND P | Ann o to | AND THE REAL PROPERTY OF |
| | bza449 | 80 06197006 | 0619700 | 7 06197008 | 06197009 |
| With HP markings fi Al extrusion, anodis conductive contact | ed finish, | Al extrusion, anodised finish, conductive contact surface, with printed HP markings | Al extrusion, anodised finish, conductive contact surface, with printed HP markings | Al extrusion, anodised finish, conductive contact surface, with printed HP markings | Al extrusion, anodised finish, conductive contact surface, with printed HP markings |
| | | without lip: 2 x 3 U installation and continuous 6 U front panel | short lip: horizontal rail and front panel form a single plane | short lip: horizontal rail and front panel form a single plane | long lip: for insertion/extraction of CompactPCI or VME64x boards |
| Usable length | Length | 1 piece (SPQ 10) ¹⁾ |
| HP | mm | | | | |
| 20 | 106.68 | 34560-020 | 34560-120 | 34560-220 | 34560-320 |
| 28 | 147.32 | 34560-028 | 34560-128 | 34560-228 | 34560-328 |
| 40 | 208.28 | 34560-040 | 34560-140 | 34560-240 | 34560-340 |
| 42 | 218.44 | 34560-042 | 34560-142 | 34560-242 | 34560-342 |
| 63 | 325.12 | 34560-063 | 34560-163 | 34560-263 | 34560-363 |
| 84 | 431.80 | 34560-084 | 34560-184 | 34560-284 | 34560-384 |
| - | 1000 | 34560-001 | 34560-101 | 34560-201 | 34560-301 |
| Screw, M4 x 14, PU | | 24560-130 | 24560-130 | 24560-130 | 24560-130 |
| Screw, M4 x 10, req guide rails are screv PU 100 pieces | | - | - | 24560-155 | 24560-155 |
| | | | | | |

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 "light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

- 1000 mm version without M4 thread to front, without printed markings and without notch for 19"-bracket
- Rugged horizontal rails with 3 fixing holes • see section "Rugged Subracks", page 6.99



REAR HORIZONTAL RAILS

Indirect backplane mounting (with insulation strip)



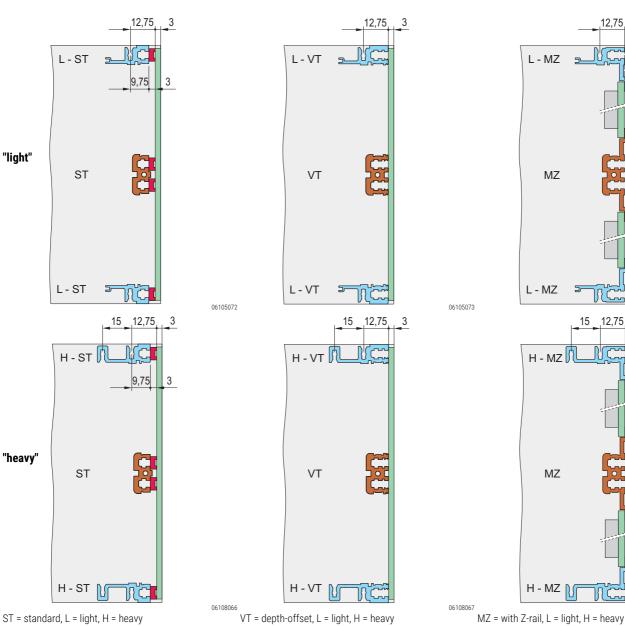
Direct backplane mounting

04400001

Connector fitting with Z

04400002





MZ = with Z-rail, L = light, H = heavy

06108068

06105071



REAR HORIZONTAL RAILS, TOP AND BOTTOM

ORDER INFORMATION

| | | For indirect backplane with insulation strip | e mounting | | | For direct fixing of co accordance with EN 60603-2 (DIN 416 | |
|--|------------------|---|---|---|---|---|---|
| | | | 9440001 | | 9440002 | | 0 2 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| | \triangleleft | "light" | "heavy" | "light" | "heavy" | "light" | "heavy" |
| | | Type L-ST | Type H-ST | Type L-VT | Type H-VT | Type L-MZ | Type H-MZ |
| | Ŧ | standard | standard | + 3 mm | + 3 mm | with Z-rail | with Z-rail |
| | 06105074 | 6197010 | 6197011 | 6197011 | 06197013 | 06197014 | 0619701S |
| With HP markings fr extrusion, anodised conductive surface | | Al extrusion, anodised surface, conductive contact surface, with printed HP markings |
| Usable length HP | Length | 1 piece (SPQ 10) ¹⁾ |
| 20 | mm 106.68 | 34560-420 | 34560-520 | 34560-620 | 34560-720 | 34560-820 | 34560-920 |
| 28 | 147.32 | 34560-428 | 34560-528 | 34560-628 | 34560-728 | 34560-828 | 34560-928 |
| 40 | 208.28 | 34560-440 | 34560-540 | 34560-640 | 34560-720 | 34560-840 | 34560-920 |
| 42 | 218.44 | 34560-442 | 34560-542 | 34560-642 | 34560-742 | 34560-842 | 34560-942 |
| 63 | 325.12 | 34560-463 | 34560-563 | 34560-663 | 34560-763 | 34560-863 | 34560-963 |
| 84 | 431.80 | 34560-484 | 34560-584 | 34560-684 | 34560-784 | 34560-884 | 34560-984 |
| - | 1000 | 34560-401 | 34560-501 | 34560-601 | 34560-701 | 34560-801 | - |
| Screw, M4 x 14, P | | | | | | 04000 001 | |
| fastening horizon side panel | | 24560-130 | 24560-130 | 24560-130 | 24560-130 | 24560-130 | 24560-130 |
| Screw, M4 x 10, re guide rails are scr PU 100 pieces | | - | 24560-155 | - | 24560-155 | - | 24560-155 |
| Perforated rail for mounting with ins see page | sulation strip | 6.38 | 6.38 | - | - | - | - |
| Z-rail for connector without insulation | i strip see page | 6.38 | 6.38 | - | - | - | - |
| Insulation strips s | | 6.37 | 6.37 | - | - | - | - |
| Threaded inserts | see page | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 |

1) 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 "light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

- 1000 mm version without M4 thread to front, .
- without printed markings and without notch for 19"-bracket • Rugged horizontal rails with 3 fixing holes
- see section "Rugged Subracks", page 6.99



REAR HORIZONTAL RAILS, CENTRE, FOR 6 U

ORDER INFORMATION

| | | For indirect backplane mounting with insulation strip | For direct backplane mounting | For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612) |
|--|----------|--|--|--|
| | | 0440001 | 0440002 | |
| | 0 | Typ ST | Typ VT | Typ MZ |
| | 06108090 | Al extrusion, anodised surface, conductive contact surface, without printed markings | Al extrusion, anodised surface, conductive contact surface, without printed markings | Al extrusion, anodised surface, conductive contact surface, without printed markings |
| Usable length | Length | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ |
| HP | mm | | | |
| 20 | 106.68 | 34561-020 | 34561-120 | 34561-220 |
| 28 | 147.32 | 34561-028 | 34561-128 | 34561-228 |
| 40 | 208.28 | 34561-040 | 34561-140 | 34561-240 |
| 42 | 218.44 | 34561-042 | 34561-142 | 34561-242 |
| 63 | 325.12 | 34561-063 | 34561-163 | 34561-263 |
| 84 | 431.80 | 34561-084 | 34561-184 | 34561-284 |
| - | 1000 | 34561-001 | 34561-101 | 34561-201 |
| Screw, M4 x 14, PU fastening horizontal side panel | rail to | 24560-130 | 24560-130 | 24560-130 |
| Insulation strips see | | 6.37 | - | - |
| Threaded inserts se | e page | 6.37 | 6.37 | 6.37 |

1) 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 "light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

- · 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



1) 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

"light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

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



THREADED INSERTS, PERFORATED STRIPS, INSULATION STRIPS

ORDER INFORMATION

| | | Threaded insert | | | strip | Insulation str | Insulation strip | |
|-----------------|--------------------|---|---------------------------------|-------------------|---|---|--------------------------------|--|
| | | M2.5 M3 | | | (item 1) | | | |
| | | | | | | | | |
| | | <u>_</u> | | | * > | | | |
| | | RA DA DA DA D | | 1 | Carlos Carlos | | 428.64 | |
| | | CARD S | | | | | 428.64 | |
| | | Star 1 | | | | | 5 x 5.00 - 421.04 | |
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| | | 5.08 | 1 a | 6103056 127685783 | | | BZ6749 | |
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| | | " " " " B A | | | " HAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | | Arterret | |
| | | | 125 | 10.00 | 110 | | UNITED PARTY | |
| | | - Alto | 6 | | and the second | TETTATT | | |
| | | | 2 2 2 3 | | Sec. C.C. | e tre | | |
| | | - | | | | 5 | | |
| | | _ | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | required for fixin | g the front panel to the se collar screw 12.3 mn | horizontal rail; n. see nage | for centring shie | elded plug-in units, Al, 1 mm, Ib screw (torque: 0,37Nm) | for insulated back PC, UL 94 V-0, grev | | |
| | 6.66 | | ., | separately | | ,, | | |
| | | | | | | | | |
| | | | | | | | | |
| | Threaded inse | | | Perforated str | in | Inculation atrip | | |
| Usable length | Length | | | Length | l Ih | Insulation strip Length | | |
| HP | mm | 1 piece | 1 piece | mm | 1 piece | mm | PU 10 pieces | |
| | | (SPQ 10) ¹⁾ | (SPQ 10) ¹⁾ | | (SPQ 10) ¹⁾ | | | |
| 20 | 106.18 | 34561-320 | - | 106.48 | 30845-189 | 101.50 | 24560-820 | |
| 28 | 146.82 | 34561-328 | - | 147.12 | 30845-197 | 144.20 | 24560-828 | |
| 40 | 207.78 | 34561-340 | - | 208.08 | 30845-209 | 205.12 | 24560-840 | |
| 42 | 217.94 | 34561-342 | - | 218.24 | 30845-211 | 210.40 | 24560-842 | |
| 63 84 | 324.62 | 34561-363 | - | 324.92 | 30845-232 | 316.88 | 24560-863 | |
| 84 196 | 431.30 1000.26 | 34561-384 34565-196 | 34561-484 | 431.60 1000.56 | 30845-253 34565-396 | 428.64 | 24560-884 | |
| Accessories | 1000.20 | J7JUJ-17U | | 1000.00 | 57303-370 | | | |
| Grub screw M2.5 | x 8,PU 100 pieces | 01100 074 | | | | | | |
| | | 21100-276 | - | | - | | - | |
| Grub screw M2.5 | x 9, Torx 8 | _ | _ | | 21102-980 | | _ | |
| PU 100 pieces | 0 011 100 | | | | | | | |
| Grub screw M3 x | 8,PU 100 pieces | - | 21100-646 | | - | | - | |
| | | | | | standard nack quantity (9 | 200 | | |

1) 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

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



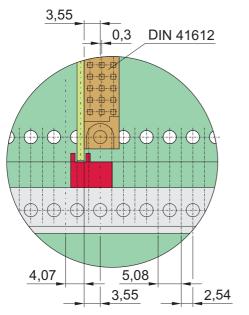
Z-RAILS, PERFORATED RAILS

ORDER INFORMATION

| | | Z-rail for connectors DIN EN 60603-2, DIN 41612 item 1 | 31-pin, DIN 41617 | Perforated rail EN 606032, DIN 41612 item 1 |
|---|--|--|--|--|
| | | | 45849 TIZ.5 | 2M555 |
| | | | 06063 | |
| | | for connector mounting on ST horizontal rails, please order threaded inserts and screw separately | for connector mounting on ST horizontal rails, please order threaded inserts and screw separately | for connector mounting on VT horizontal rails, please order threaded inserts and screw separately |
| Jsable length | Length | | | |
| ΙP | mm | 1 piece | 1 piece | PU 4 pieces |
| 1 | 20.32 | 30822-166 | - | 20822-052 |
| 1 | 40.64 | 30822-170 | - | 20822-053 |
| 20 | 101.60 | 30822-025 | - | 20822-051 |
| 28 | 142.24 | 30822-033 | - | 20822-049 |
| 10 | 203.20 | 30822-045 | 30819-763 | 20822-046 |
| 42 | 213.36 | 30822-047 | - | 20822-050 |
| 50 | 304.80 | 30822-065 | 30819-783 | 20822-047 |
| 84 | 426.72 | 30822-089 | 30819-808 | 20822-048 |
| Item 2, torx panhead s to fix connector to per PU 100 pieces | forated rail,, M2.5 × 7, | 24560-147 | 24560-147 | 24560-147 |
| Item3, torx panhead so to fix perforated rails to PU 100 pieces | crew, o horizontal rail, M2.5 × 10, | - | - | 24560-148 |



GUIDE RAILS



Front view: position of guide rails to connector (EN 60603-2/ DIN 41612)





Guide rails form the interface between the subrack mechanics and the sub-assemblies (PCBs, plug-in units, frame-type plug-in units, ...).

Guide rails for standard applications are 2 HP wide. Guide rails with coding (e.g. for CompactPCI or VME64bus applications) are 4 HP wide.

There are groove widths of 2 mm and 2.5 mm.

The guide rails are clipped into the rectangular cut-outs of the horizontal rails. They can additionally be bolted to the horizontal rail (type H only) for higher shock and vibration requirements.

The printed HP markings on the horizontal rail (28 HP and above) allow the rails to be fitted in the correct position easily (position of sub-assembly = "number in viewing window" or in front of the arrow marking on the guide rails).

Applications for guide rails

For plug-in units and frame-type plug-in units (with front panels) (standard type)

For plug-in units and frame type plug-in units or for PCBs without their own front panel (accessory type or robust version)

For CompactPCI or VME64x plug-in units (type IEEE with coding; frame-type plug-in units cannot be fitted)

For plug-in drive unit modules or PCBs in 4.4" (111.7 mm) height (type 4.4")

Rugged guide rails to accommodate conduction cooled assembly (CCA) adaptor

061120

- Accessories:
- ESD clip
- Keying/coding pegs
- Board locking



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

ORDER INFORMATION

| | | | For plug-in units and frame type plug-in un Type: Standard | its | Type Standard , with DIN connector fixing |
|---|--|--------------|---|--------------------------------|--|
| Assembly - can be clipped horizontal rail - can be clipped 1.5 mm thick Storage tempe from -40 °C | s d into plates rature | ruded | | | |
| Colors of Plast red: RAL 3000 grey: RAL 7016 | 1 | | 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 | PBT, UL 94 V-0, red, connector is clipped directly onto the guide rails; for euroboards only, 100 x 160 mm or 100 x 220 mm |
| Board length | Groove width | e Colour | | | |
| mm | mm | mm | PU 10 pieces ²⁾ | 1 piece (SPQ 50) ¹⁾ | 1 pair (SPQ 10) ¹⁾ |
| 70 | 2 | red | - | 34568-230 | - |
| 70 | 2 | grey | - | - | - |
| 160 | 2 | red | 24568-361 | 64568-001 | 64560-074 |
| 220 | 2 | red | 24568-362 | 64568-002 | 64560-075 |
| 280 | 2 | red / silver | 24568-379 | - | - |
| 340 | 2 | red /silver | 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 | 24560-141 |
|---|-----------|-----------|-----------|
| ESD clip, PU 50 pieces | 24560-255 | 24560-255 | 24560-255 |

1) 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

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

GUIDE RAILS TYPE "ACCESSORY", ONE-PIECE, GROOVE WIDTH 2 MM AND 2.5 MM

ORDER INFORMATION

| | | | Guide railsType Acces | ssory | Guide railsType Accessory strengthened | for heavy modules, Al extrusion, silver, robust version |
|--|--|-------------|--|--------------------------------|---|--|
| extruded horizontal - can be cli mm thick Storage ter from -40 °C | pped into 1.5 plates mperature C +130 °C Plastic Materia 3000 | al | up to 280 mm length, PC > 280 mm length, multi-p middle section Al extrusi | iece, end piece PC, UL 94 V-0, | PC, UL 94 V-0, red; support beam of guide rails adds to strengthening | Al extrusion; is screwed to horizontal rail "heavy" with retention screws |
| Board | Groove width | Colour | | | | |
| length mm | mm | | PU 10 pieces ²⁾ | 1 piece (SPQ 50) | 1 piece (SPQ 50) | 1 piece (SPQ 10) ¹⁾ |
| 100 | 2 | red | - | 64568-082 | | - |
| 160 | 2 | red | 24568-363 | 64568-005 | 64568-076 | - |
| 160 | 2 | grey/silver | - | 64568-055 | - | 34562-881 |
| 220 | 2 | red | 24568-364 | 64568-006 | 64568-078 | - |
| 220 | 2 | grey/silver | - | 64568-166 | _ | 34562-882 |
| 280 | 2 | red/silver | 24568-381 | - | 64568-080 | 34562-883 |
| 340 | 2 | red/silver | 24568-382 | - | _ | 34562-884 |
| 400 | 2 | red/silver | - | - | - | 34562-885 |
| 160 | 2.5 | red/silver | - | 64568-100 | 64568-118 | 34564-881 |
| 220 | 2.5 | red/silver | - | 64568-102 | 64568-119 | 34564-882 |
| 280 | 2.5 | red/silver | - | - | 64568-120 | 34564-883 |
| 340 | 2.5 | silver | - | - | - | 34564-884 |
| 400 | 2.5 | silver | - | - | - | 34564-885 |

Accessories

| Retention screw, PU 100 pieces; torque max. 0.2 Nm | 24560-141 | 24560-141 | 24560-141 | 24560-157 |
|--|-----------|-----------|-----------|-----------|
| ESD clip, PU 50 pieces | 24560-255 | 24560-255 | 24560-255 | - |
| Board locking C, red, PU 10 pieces | 24560-377 | 24560-377 | 24560-377 | - |
| Board handle C, red, PU 10 pieces | 24560-378 | 24560-378 | 24560-378 | - |
| Identification strips for board handle, red, PU 1 sheet = 438 pieces | 60817-228 | 60817-228 | 60817-228 | - |
| | | | | |

1) 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

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







GUIDE RAILS FOR COMPACTPCI, VME64X WITH CODING, 4.4" PCBS, GROOVE WIDTH 2 MM AND 2.5 MM

ORDER INFORMATION

| | Type with Coding, for CompactPCI,Type with Coding, 0.1" OFFSETVME64x application. In accordance withfor power supply units. linIEEE 1101.10 and IEC 60297-3-103accordance with IEEE 1101.10and IEC 60297-3-103and IEC 60297-3-103 | | | | nits. lin EE 1101.10 | Type. 4.4 " PCBs | | |
|--|---|---------------|--|--------------------------------|--|--------------------------------|---|--------------------------------|
| Assembly - can be clipped extruded horizontal rails - can be clipped into1.5 mm thic Storage temper from -40 °C 1 Colors of Plast red: RAL 3000 | k plates rature 30 °C ic Material | | One-piece for groove width 2 mm, PC, | | | | One-piece, PBT, UL 94 V-0; for 4 d" PCPe or drive unit modulos | |
| grey: RAL 3000 grey: RAL 7016 green: RAL 602 | 4 | | Width 2 mm, PC, UL 94 V-0; multi-piece at groove width 2,5 mm, end-piece PC, UL 94 V- 0, center piece Al profile | | for installation of power supplies in CompactPCI systems or plug-in units with SMD placement | | for 4.4" PCBs or drive unit modules | |
| Board length | Groove width | Colour | PU 10 pieces | 1 piece (SPQ 50) ¹⁾ | PU 10 pieces | 1 piece (SPQ 50) ¹⁾ | PU 10 pieces | 1 piece (SPQ 50) ¹⁾ |
| mm | mm | mm | | | | | | |
| 70 | 2 | red | 24568-357 | 64568-085 | - | - | - | _ |
| 70 | 2 | grey | 24568-360 | 64568-086 | - | - | - | - |
| 160 | 2 | red | 24568-356 | 64568-089 | - | - | 24560-361 | 64560-143 |
| 160 | 2 | grey | 24568-358 | 64568-090 | - | - | - | - |
| 160 | 2 | green | | - | 24568-359 | 64568-071 | - | - |
| 220 | 2 | red | - | 64568-091 | - | - | 24560-362 | 64560-144 |
| 220 | 2 | grey | - | 64568-092 | - | - | - | _ |
| 220 | 2 | green | - | - | - | 64568-072 | - | - |
| 160 | 2.5 | red | - | 64568-109 | - | - | - | 64560-145 |
| 160 | 2.5 | grey | - | 64568-110 | - | - | - | - |
| 220 | 2.5 | red | - | 64568-111 | - | - | - | 64560-146 |
| 220 | 2.5 | grey | - | 64568-112 | - | - | - | - |
| 280 | 2.5 | red / silver | 24568-331 | - | - | - | - | - |
| 280 | 2.5 | grey / silver | 24568-341 | - | - | - | - | - |
| 340 | 2.5 | red / silver | 24568-332 | - | - | - | - | - |
| 340 | 2.5 | arev / silver | 24568-342 | - | - | - | - | - |

Accessories

| ESD clip, PU 50 pieces | 24560-255 | 24560-255 | - | - | - | - |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
| ESD clips, for alignment pin, PU 50 pieces | 24560-256 | 24560-256 | 24560-256 | 24560-256 | - | _ |
| Retention screw, PU 100 pieces; torque max. 0.2 Nm | 24560-141 | 24560-141 | 24560-141 | 24560-141 | 24560-158 | 24560-158 |
| Coding peg, PU 100 pieces | 20817-501 | 20817-501 | 20817-501 | 20817-501 | - | _ |

1) 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

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



GUIDE RAILS FOR COMPACTPCI, VME64X WITH CODING, PREASSEMBLED ESD CLIPS, GROOVE WIDTH 2 MM

ORDER INFORMATION

| | | | | Type with Coding , fo VME64x application. IEEE 1101.10 and IEC ESD CLIPS preassem | In accordance with 060297-3-103 |
|---|--|--------|-------------------------|---|---|
| | | | | red colour | grey colour |
| Assembly - can be clippe horizontal ra | ed into Al extru | | SD Clip Nignment PIN | One-piece for groove width 2 mm, PC, UL 94 V-0; | One-piece for groove width 2 mm, PC, UL 94 V-0; |
| - can be clippe plates | ed into1.5 mm | thick | - | ESD Clip and ESD Clip for Alignment PIN preassembled | ESD Clip and ESD Clip for Alignment PIN preassembled |
| Storage temp from -40 °C | | f | | | |
| Colors of Plat red: RAL 300 grey: RAL 707 | 00 | L. | | SP | Sola. |
| clips is requir | juide rail with E ed per slot, to static discharge | | ESD Clip | Picture shows 160mm long guide rail, mounting position bottom 24568 4847 rendered | Picture shows 160mm g long guide rail, mounting position bottom 24568-848 rendered |
| Board length | n Groove width | Colour | Mounting Position | PU 10 pieces | PU 10 pieces |
| mm | mm | mm | | | |
| 70 | 2 | red | bottom | 24568-855 | |
| 70 | 2 | red | top | 24568-853 | |
| 160 | 2 | red | bottom | 24568-847 | |
| 160 | 2 | red | top | 24568-850 | |
| 70 | 2 | grey | bottom | | 24568-856 |
| 70 | 2 | grey | top | | 24568-854 |
| 160 | 2 | grey | bottom | | 24568-848 |
| 160 | 2 | grey | top | | 24568-851 |

Accessories

| Retention screw, PU 100 pieces; torque max. 0.2 Nm | C.m | 24560-141 | 24560-141 | |
|---|--------|-----------|-----------|--|
| Coding peg, PU 100 pieces | A REAL | 20817-501 | 20817-501 | |

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



GUIDE RAILS, MULTI-PIECE, GROOVE WIDTH 2 MM

ORDER INFORMATION

| | | | | | Accessories type | | For 4.4" PCBs | |
|--|--------------|-----------------|---|-----------------------------------|---|-----------------------------------|---|-----------------------------------|
| | | | standard type | | Accessories type | | FUI 4.4 PUBS | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| PCBs: | | | and and | El Status | 12-10- | - Mary w | | 1-10 |
| Fixed lengths for 160, 2 | 20, 280, | | | | | | | |
| 340 mm; | aial diman | | | // // | | // // | | // // |
| length 1000 mm for spe sions | ecial ulmen- | | | | | | | |
| 310113 | | | The free of | tas de | 2 And 1 | | | |
| Mounting: pluggable in | to horizon- | | | the first | 2- Martin | 2 And | and when he | |
| tal rails | | | 0610600 |)4 | 0610600 | 5 | 0610600 | б |
| Champer Annual Champer Annual | | | end piece, PC, | end piece, PBT, | end piece, PC, | end piece, PBT, | end piece, PC, | end piece, PBT, |
| Storage temperature : End piece -40°C +130 | ۱°C | | UL 94 V-0,middle sectionAl extrusion | UL 94 V-0, middle section | UL 94 V-0,middle sectionAl extrusion | UL 94 V-0, middle section | UL 94 V-0,middle sectionAl extrusion | UL 94 V-0, middle section |
| PVC profile 0°C +60° | | | | plastic extrusion | | plastic extrusion | | plastic extrusion |
| | | - | | (PVC, RAL 7035) | | (PVC, RAL 7035) | | (PVC, RAL 7035) |
| Description | Length | Groove width | 1 piece | 1 piece | 1 piece | 1 piece | 1 piece | 1 pipeo |
| | mm | mm | (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ |
| End piece, red, 1 pair | | 2 | 64568-004 | 64568-004 | 64568-008 | 64568-008 | 64560-057 | 64560-057 |
| Al extrusion, for | 05 | | | | | | | |
| 160mm board length | 95 | 2 | 34560-891 | 34564-891 | 34560-891 | 34564-891 | 34560-891 | 34564-891 |
| Al extrusion, for 220 | 155 | 2 | 34560-892 | 34564-892 | 34560-892 | 34564-892 | 34560-892 | 34564-892 |
| mm board length | 100 | 2 | 54500-072 | 54504 072 | 34300-072 | 34304-072 | 54500-072 | 54504 072 |
| Al extrusion, for 280 | 215 | 2 | 34560-893 | 34564-893 | 34560-893 | 34564-893 | 34560-893 | 34564-893 |
| mm board length Al extrusion, for 340 | | | | | | | | |
| mm board length | 275 | 2 | 34560-894 | - | 34560-894 | - | 34560-894 | - |
| | | | | | | | | |
| Al extrusion, for any | 1000 | 2 | 34560-900 | 34564-900 | 34560-900 | 34564-900 | 34560-900 | 34564-900 |
| board length | 1000 | L | | 54504-900 | | 34304-900 | | 34304-900 |
| Description | Length | Groove | | | | | | |
| | mm | width | 1 piece | 1 piece $(0,0,0,1)$ | 1 piece | 1 piece | | |
| End piece red 1 pair | | mm 2.5 | (SPQ 10) ¹⁾ | (SPQ 10) ¹⁾ | (SPQ 10) ¹⁾ | (SPQ 10) ¹⁾ | | |
| End piece, red, 1 pair Al extrusion, for 160 | | 2.5 | 64568-014 | | 64568-018 | | | |
| mm board length | 95 | 2.5 | 34562-813 | - | 34562-813 | - | | |
| Al extrusion, for 220 | 4.5-5 | | | | | | | |
| mm board length | 155 | 2.5 | 34562-814 | - | 34562-814 | - | | |
| Al extrusion, for 280 | 215 | 2.5 | 34562-815 | _ | 34562-815 | _ | | |
| mm board length | 210 | 2.0 | 54502-015 | | 54502-015 | | | |
| Al extrusion, for 340 | 275 | 2.5 | 34562-816 | - | 34562-816 | - | | |
| mm board length | | | | | | | | |
| Al extrusion, for any | 1000 | 0 F | 24562 000 | | 0.4540.000 | _ | | |
| board length | 1000 | 2.5 | 34562-822 | _ | 34562-822 | - | | |
| Accessories | | | | | | | | |
| ESD clip, PU 50 pieces | | | 24560-255 | 24560-255 | 24560-255 | 24560-255 | - | |
| Retention screw, PU 10 | 0 pieces; | | 24560-141 | 24560-141 | 24560-141 | 24560-141 | 24560-158 | 24560-158 |
| torque max. 0.2 Nm | | | | | | | | |
| Board locking C, red, PL | | | - | - | 24560-377 | 24560-377 | - | - |
| Board handle C, red, PU | | ام مم | - | - | 24560-378 | 24560-378 | - | - |
| Identification strips for PU 1 sheet = 438 pieces | | ie, rea, | - | - | 60817-228 | 60817-228 | - | - |
| Coding see page | J | | _ | - | see page | 6 47 | - | - |
| bouing see page | | | | | see paye | 0.17 | | |

1) 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

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



GUIDE RAILS, MULTI-PIECE, GROOVE WIDTH 2 AND 2.5MM

ORDER INFORMATION

| | | | Coding (IEEE) type | | | | | |
|--|--------------|-----------------------|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | rod | | | aroor | n, 0,1" Offset |
| | | | | red | (| grey | greer | i, u, i Unset |
| PCBs: Fixed lengths for 160, 220 340 mm; length 1000 mm for speci Mounting: pluggable into | ial dimen: | | | | | | | |
| Storage temperature : End piece -40°C+130°C | | | 135313686 | 113 | 135313698 | THE OWNER | 135313710 | |
| PVC profile 0°C +60°C red = similar RAL 300 grey = similar RAL 70° green = similar RAL 602 | 16, | | end piece, PC, UL 94 V-0,middle sectionAl extrusion | end piece, PBT, UL 94 V-0, middle section plastic extrusion (PVC, RAL 7035) | end piece, PC, UL 94 V-0,middle sectionAl extrusion | end piece, PBT, UL 94 V-0, middle section plastic extrusion (PVC, RAL 7035) | end piece, PC, UL 94 V-0,middle sectionAl extrusion | end piece, PBT, UL 94 V-0, middle section plastic extrusion (PVC, RAL 7035) |
| | mm | Groove width mm | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ |
| End piece, 1 pair | | 2 | 64568-093 | 64568-093 | 64568-094 | 64568-094 | 64568-095 | 64568-095 |
| Al extrusion, for 160 mm board length | 95 | 2 | 34560-891 | 34564-891 | 34560-891 | 34564-891 | 34560-891 | 34564-891 |
| Al extrusion, for 220 mm board length | 155 | 2 | 34560-892 | 34564-892 | 34560-892 | 34564-892 | 34560-892 | 34564-892 |
| Al extrusion, for 280 mm board length Al extrusion, for 340 mm | 215 | 2 | 34560-893 | 34564-893 | 34560-893 | 34564-893 | 34560-893 | 34564-893 |
| board length | 275 | 2 | 34560-894 | - | 34560-894 | - | 34560-894 | - |
| Al extrusion,for any board length | 1000 | 2 | 34560-900 | 34564-900 | 34560-900 | 34564-900 | 34560-900 | 34564-900 |
| Description | Length mm | Groove width mm | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ |
| End piece, 1 pair | | 2.5 | 64568-093 | | 64568-094 | | 64568-095 | |
| Al extrusion, for 160 mm board length | 95 | 2.5 | 34562-813 | - | 34562-813 | - | 34562-813 | - |
| Al extrusion, for 220 mm board length | 155 | 2.5 | 34562-814 | - | 34562-814 | - | 34562-814 | - |
| Al extrusion, for 280 mm board length Al extrusion, for 340 | 215 | 2.5 | 34562-815 | - | 34562-815 | - | 34562-815 | - |
| mm board length | 275 | 2.5 | 34562-816 | - | 34562-816 | - | 34562-816 | - |
| Al extrusion,for any board length | 1000 | 2.5 | 34562-822 | - | 34562-822 | - | 34562-822 | - |
| Accessories | | | | | | | 1 | |
| ESD clip, PU 50 pieces | | | 24560-255 | 24560-255 | 24560-255 | 24560-255 | 24560-255 | 24560-255 |
| ESD clips, for alignment p | | pieces | 24560-256 | 24560-256 | 24560-256 | 24560-256 | 24560-256 | 24560-256 |
| Retention screw, PU 100 torque max. 0.2 Nm | pieces; | | 24560-141 | 24560-141 | 24560-141 | 24560-141 | 24560-141 | 24560-141 |
| Coding peg | | | 20817-501 | 20817-501 | 20817-501 | 20817-501 | 20817-501 | 20817-501 |

1) 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

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

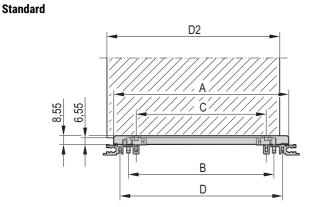
NOTE

• (*) only for groove width 2.0mm

 Headpieces with coding can be used for be used for groove width 2.0mm as well as for 2.5mm



DIMENSION DRAWINGS OF GUIDE RAILS

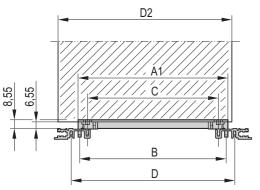


bza45808

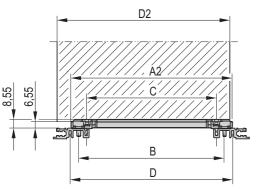
bza45808

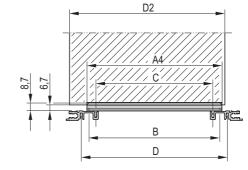
06105068

For accessories



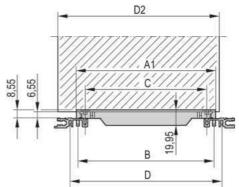
CompactPCI, VME64x



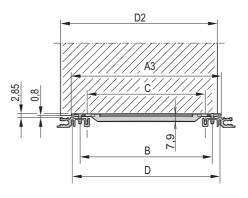


For accessories, strengthened

Robust version



4.4" (111.7 mm)



06105069

06105074

| Dimensions ta | able | | | | | | | | | | |
|---------------|-------|------------|--------|-----|-----|-----|-----|-----|--|--|--|
| Board length | | Dimensions | | | | | | | | | |
| L | А | A1 | A2 | A3 | A4 | В | С | D | | | |
| mm | mm | mm | mm | mm | mm | mm | mm | mm | | | |
| 70 | 71.5 | 47.9 | 59.39 | 63 | 49 | 45 | 30 | 60 | | | |
| 100 | 101.5 | 77.9 | 89.39 | 93 | 79 | 75 | 60 | 90 | | | |
| 160 | 161.5 | 137.9 | 149.39 | 153 | 139 | 135 | 120 | 150 | | | |
| 220 | 221.5 | 197.9 | 209.39 | 213 | 199 | 195 | 180 | 210 | | | |
| 280 | 281.5 | 257.9 | 269.39 | 273 | 259 | 255 | 240 | 270 | | | |
| 340 | 341.5 | 317.9 | 322.39 | 333 | 319 | 315 | 300 | 330 | | | |
| 400 | 401.5 | 377.9 | 389.39 | 393 | 379 | 375 | 360 | 390 | | | |

A, A1, A2, A3, A4: Length of rail

B: Pitch of snap-in fixing

C: Pitch of guide rail retention screws

D: Pitch of horizontal rail retention screws

Table dimensions for guide rails



GUIDE RAIL ACCESSORIES

ORDER INFORMATION

| | | ESD clips, CompactPCI/VME 64 | Coding for subracks | | | | | |
|----------|--------|--|--|----------------|--|--|--|--|
| | | | Keying/coding block guide rails accessor red. RAL 3000, | | Keying/coding for CompactPCI, VME64x handles to IEEE 1011.10 and IEC 60297-3-103 | | | |
| | | | Teu, RAL 3000, | grey, RAL 7010 | | | | |
| | | 108230497 Spring steel, tin-plated, ESD clip, for alignment pin in accordance with IEEE; can be plugged into the guide rails with coding and into the keying/coding block; provides conductive contact between the alignment pin of the insertion/extractor handle | PC, UL 94 V-0, keying/coding block is horizontal rail next to th please order keying/co | he guide rail; | It is the chambers of the codable card guides as well as in the insertion/extractor handles IEL or IET (4 possible positions), | | | |
| | | (IEL or IET handle) and the horizontal rail | | | resulting in 64 codings per card guide; when coding the upper and lower card guide, 4096 codings will result; | | | |
| Assembly | Colour | | 1 piece (SPQ 50) | | | | | |
| | | PU 50 pieces | red, RAL 3000, | grey, RAL 7016 | PU 100 pieces | | | |
| | red | - | 64568-232 | | - | | | |
| above | grey | - | | 64568-233 | 20817-501 | | | |
| | silver | 24560-256 | | - | - | | | |
| | red | - | 64568-234 | | - | | | |
| below | grey | - | | 64568-235 | 20817-501 | | | |
| | silver | 24560-256 | | - | - | | | |

1) 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

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

GUIDE RAIL ACCESSORIES

ORDER INFORMATION

| | ESD clips for guide rails | Board locking C for PCBs without front panel; for accessory type guide rails | PCB handle C for board locking; for accessory type guide rails | Identification strips |
|-----------------|--|---|---|---|
| | 04503050 | 00048868,0 | 000113621_0 | 06108076 |
| | Spring steel, tin-plated, provides conductive contact between board and horizontal rail, on both the solder side and the component side | PBT, UL 94 V-0, red, to fix the PCB in the subrack (also slot 1), can also be used without board handle, minimum distance 3 HP | PBT, UL 94 V-0, red, insertion/extraction function with connection to board locking (also slot 1), mounting directly behind front panel (above and below), minimum distance 3 HP | Polyester film, 31 x 4 mm, self-adhesive, white/matt (1 A4 sheet contains 438 pieces) |
| Assembly Colour | silver | red | red | white/matt |
| mm | PU 50 pieces | PU 10 pieces | PU 10 pieces | 1 piece |
| above/below | 24560-255 | 24560-377 | 24560-378 | 60817-228 |



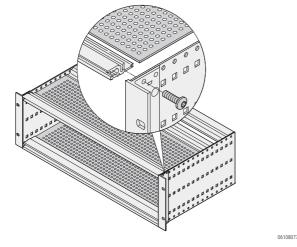
SHIELDING FOR TOP AND BOTTOM

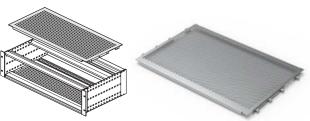
Cover plates can be used for electromagnetic shielding (with EMC contact springs) or as mechanical protection (without EMC springs)

Cover plates for mechanical protection

• Cover plates are inserted into the grooves of the front and rear horizontal rails, type L "light"

see page 6.50





Cover plates with EMC shielding and mechanical protection

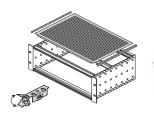
EMC cover plates for top and bottom

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

see page 6.51

0610208

06105082





Universal EMC cover plates for top and bottom

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting to the side panel with special contact springs
- Used when PCBs with special dimensions are fitted

see page 6.52



ADVANCED EMC SHIELDING FOR TOP AND BOTTOM COVERS AND SIDE PANELS



Advanced EMC Plus top & bottom covers.

Dual Mesh design for maximum EMC shielding without restricting the air flow

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- The additional mesh above the card cage further increase the EMC shielding
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

see page 6.53





Advanced EMC top & bottom covers, improving EMC shielding without restricting the air flow

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

see page 6.54

NEW



Advanced EMC shielding through side panel covers

Assembled on the standard side panel to increase material thickness and covering cut-outs, to imrove the lateral RF-shielding effectiveness of the subrack

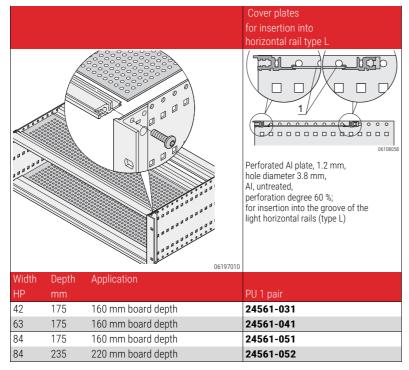
see page 6.55

NEW

nvent schroff

COVER PLATES FOR MECHANICAL PROTECTION (INSERTION INTO HORIZONTAL RAIL TYPE L)

ORDER INFORMATION



NOTE

• Other dimensions on request



EMC COVER PLATES AND MECHANICAL PROTECTION

- Cover plate for bolting to side panel
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

ORDER INFORMATION

| | | | Cover plate for bolting to side panel | Stainless steel EMC gas plate and horizontal rail | |
|--|--|---|---|---|---------------------|
| | | Colored | d = D - 25 3 HE / U 160 / 220 / 280 Al, 1.0 mm, hole diameter 4.0 mm, passivated, perforation degree 58 %, incl. fixing screws; for shielding 4 stainless steel EMC gaskets are required per subrack | stainless steel EMC gasket, clips into the horizontal rail forms the contact with the suitable for all horizontal ra | and cover plate; |
| Width | Depth | Application | | | |
| HP 42 42 42 42 42 | mm 175 235 275 277.75 | 160 mm board depth 160, 220 mm board depth 160, 220 mm board depth CompactPCI (275 mm) 160, 220 mm board depth VME64x (277.75 mm) | PU 1 pair 24560-064 24560-065 24560-061 24579-090 | PU 10 pieces | PU 100 pieces |
| 42 63 63 63 63 | 295 175 235 275 295 | 160, 220, 280 mm board depth160 mm board depth160, 220 mm board depth160, 220 mm board depth CompactPCI (275 mm)160, 220, 280 mm board depth | 24560-066 24560-071 24560-072 24560-062 24560-073 | 24560-243 | - |
| 84 84 84 84 84 84 84 | 175 235 275 277.75 295 355 415 | 160 mm board depth 160, 220 mm board depth 160, 220 mm board depth CompactPCI (275 mm) 160, 220 mm board depth VME64x (277.75 mm) 160, 220, 280 mm board depth 160, 220, 280 mm board depth 160, 220, 280 mm board depth 160, 220, 280 mm board depth | 24560-078 24560-079 24560-063 24579-092 24560-080 24560-081 24560-082 | 24560-245 | 24560-246 |
| 84 Cover Cover | | 160, 220, 280 mm board depth | 24560-083 24566-007 | | |
| | | EMC gasket, prizontal rails), 1 piece | - | 24560-271 | |

NOTE

Cover plates without perforation available on request



UNIVERSAL EMC COVER PLATES AND MECHANICAL PROTECTION

• Used when PCBs with special dimensions are fitted

ORDER INFORMATION

| | | | Universal cover plate | Stainless steel EMC gas plate and horizontal rail | ket, between cover |
|----------|------------|--|---|--|-----------------------|
| | | Of 105082 | d = D - 25 3 HE / U 160 / 220 / 280 Al, 1.0 mm, hole diameter 4.0 mm,passivated, perforation degree 58 %, incl. lateral EMC sealing, incl. fixing screws. Torque moment for fastening screws = 0.9 Nm | Stainless steel EMC gasket, rail and forms the contact w suitable for all types of horit | vith the cover plate; |
| Width | Depth | Application | 1 mate | | |
| HP 42 | mm 175 | 160 mm board depth | 1 pair 24560-031 | PU 10 pieces | PU 100 pieces |
| 42 | 235 | 160, 220 mm board depth | 24560-032 | 24560-241 | - |
| 42 | 295 | 160, 220, 280 mm board depth | 24560-033 | | |
| 63 | 175 | 160 mm board depth | 24560-041 | | |
| 63 | 235 | 160, 220 mm board depth | 24560-042 | 24560-243 | - |
| 63 | 295 | 160, 220, 280 mm board depth | 24560-043 | | |
| 84 | 175 | 160 mm board depth | 24560-051 | | |
| 84 84 | 235 295 | 160, 220 mm board depth 160, 220, 280 mm board depth | 24560-052 24560-053 | | |
| 84 | 355 | 160, 220, 280 mm board depth | 24560-055 | 24560-245 | 24560-246 |
| 84 | 415 | 160, 220, 280 mm board depth | 24560-055 | | |
| 84 | 475 | 160, 220, 280 mm board depth | 24560-056 | | |
| Cover p | | g Kit additional securing for cover plate, be combined with horizontal rail type H and R | 24566-007 | | |
| | | or EMC gasket, orizontal rails), 1 piece | - | 24560-271 | |



ADVANCED EMC SHIELDING FOR TOP AND BOTTOM COVERS AND SIDE PANELS

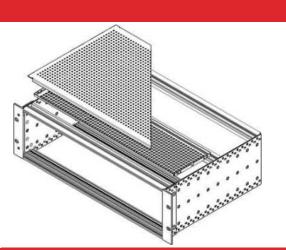


Advanced EMC Plus top & bottom covers.

Dual mesh design for maximum EMC shielding without resticting the air flow

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- The additional mesh above the card cage further increase the EMC shielding
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

ORDER INFORMATION



| | 0 | - | 0 | [| 0 | | 0 | |
|----|-----|------|-------|---|-------|-------|------|---|
| NR | 0.0 | 2020 | | | 0_0_0 | 0_0_0 | 0_0_ | |
| 00 | | 0 | | 0 | 0 | 0 | | 0 |
| ø | | | | | | | | |
| ۵ | | ۵ | | | | | | ۵ |
| Ö | | | | | | | | |
| ٥Ö | | | | | | D | | |

Cover plate, additional mesh, perforation

Al, 1.0 mm, hole diameter 2.3 mm, passivated, perforation degree 50 %, incl. fixing screws; for shielding 4 stainless steel EMC gaskets are required per subrack stainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all horizontal rails 0610605

plate and horizontal rail

| HP | Depth | Application | | | |
|----|-------------|---|-------------------|--------------|---------------|
| | mm | | PU 1 pair | PU 10 pieces | PU 100 pieces |
| 84 | 175 | 160 mm, PCB Board Depth | 2456 3-770 | | |
| 84 | 23 5 | 160 mm, PCB Board Depth | 24563-771 | | |
| 84 | 275 | 160 mm, PCB Board Depth CompactPCI (275 mm) | 24563-772 | | |
| 84 | 277.75 | 160 mm, PCB Board Depth VME64x (277.75 mm) | 24563-773 | | |
| 84 | 295 | 160 mm, PCB Board Depth | 2456 3-774 | | |
| 84 | 355 | 160 mm, PCB Board Depth | 2456 3-775 | | |
| 84 | 415 | 160 mm, PCB Board Depth | 24563-776 | | |
| 84 | 475 | 160 mm, PCB Board Depth | 24563-777 | 04540.045 | 04540.044 |
| 84 | 235 | 220 mm, PCB Board Depth | 2456 3-780 | 24560-245 | 24560-246 |
| 84 | 295 | 220 mm, PCB Board Depth | 2456 3-781 | | |
| 84 | 355 | 220 mm, PCB Board Depth | 2456 3-782 | | |
| 84 | 415 | 220 mm, PCB Board Depth | 24563-783 | | |
| 84 | 475 | 220, mm, PCB Board Depth | 2456 3-784 | | |
| 84 | 295 | 280 mm, PCB Board Depth | 2456 3-790 | | |
| 84 | 355 | 280 mm, PCB Board Depth | 24563-791 | | |
| 84 | 415 | 280 mm, PCB Board Depth | 2456 3-792 | | |
| 84 | 475 | 280 mm, PCB Board Depth | 2456 3-793 | | |

NOTE

- Cover plates in 42 and 63HP on request
- · Cover plates without perforation available on request
- Cover plates can not be combined with horizontal rails type R







ORDER INFORMATION

Advanced EMC top & bottom covers, improving EMC shielding without restricting the air flow

- Covers with EMC and airflow optimized perforation with diameter Ø2.3mm and perforation degree of 50 %
- Cover plate for bolting to side
- For standard PCBs depths (160, 220, 280, ...)



Stainless steel EMC gasket, between cover Cover plate, perforation Ø 2.3mm, for bolting to side panel plate and horizontal rail d = D - 25 0 0 0 0 0 0 0 0 0 0 0 0 0 17 100 b 3 HE / U 0000 160 / 220 / 280 0000 D . 06102082 0610605 stainless steel EMC gasket, Al, 1.0 mm, hole diameter 2.3 mm, clips into the horizontal rail and passivated, perforation degree 50 %, forms the contact with the cover plate; incl. fixing screws; for shielding 4 stainless steel EMC gaskets suitable for all borizontal rails are required per subrack Depth Application PU 1 pair **2456**3-555 175 160 mm board depth 36 24560-247 235 160, 220 mm board depth **2456**3-**5**56 36 42 175 160 mm board depth 24563-560 42 235 160, 220 mm board depth 24563-561 42 275 160, 220 mm board depth CompactPCI (275 mm) 24563-562 24560-241 160, 220 mm board depth VME64x (277.75 mm) 42 277.75 24563-563 42 295 160, 220, 280 mm board depth **2456**3-564 63 175 160 mm board depth 24563-660 63 235 160, 220 mm board depth 24563-661 24560-243 63 275 160, 220 mm board depth CompactPCI (275 mm) 24563-662 63 295 160, 220, 280 mm board depth 24563-663 84 175 160 mm board depth **2456**3-760 84 235 160, 220 mm board depth 24563-761 275 160, 220 mm board depth CompactPCI (275 mm) 84 **2456**3-762 84 277.75 160, 220 mm board depth VME64x (277.75 mm) 24563-763 24560-245 24560-246 84 295 160, 220, 280 mm board depth **2456**3-764 84 355 160, 220, 280 mm board depth 24563-765 84 415 160, 220, 280 mm board depth 24563-766 84 475 160, 220, 280 mm board depth 24563-767 Assembly tool, for EMC gasket, 24560-271 stainless steel (horizontal rails), 1 piece

NOTE

- Cover plates without perforation available on request
- Cover plates can not be combined with horizontal rails type R

ADVANCED EMC SHIELDING FOR SIDE PANELS



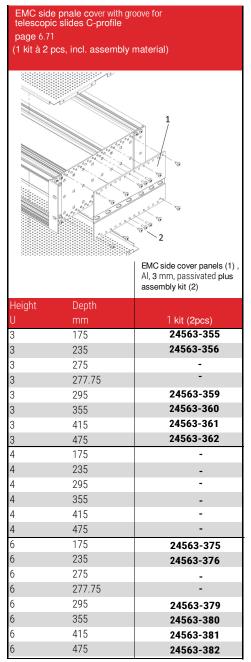


- Side panel covers for increased lateral RF shielding
- Assembled on the outside of the standard side panel of the subrack.
- Overall width is still in accordance to IEC 60297-3-100
 and IEEE 1101.1
- · Assembly material included



| | ide panel cover, 2 pcs, incl. assembly mate | 1 |
|-------------|--|--|
| Hoight | Depth | EMC side cover panels (1) , Al, 3 mm, passivated plus assembly kit (2) |
| Height U | mm | 1 kit (2pcs) |
| 3 | 175 | 24563-255 |
| 3 | 235 | 24563-256 |
| 3 | 275 | 24563-257 |
| 3 | 277.75 | 24563-258 |
| 3 | 295 | 24563-259 |
| 3 | 355 | 24563-260 |
| 3 | 415 | 24563-261 |
| 3 | 475 | 24563-262 |
| 4 | 175 | 24563-265 |
| 4 | 235 | 24563-266 |
| 4 | 295 | 24563-267 |
| 4 | 355 | 24563-268 |
| 4 | 415 | 24563-269 |
| 4 | 475 | 24563-270 |
| 6 | 175 | 24563-275 |
| 6 | 235 | 24563-276 |
| 6 | 275 | 24563-277 |
| 6 | 277.75 | 24563-278 |
| 6 | 295 | 24563-279 |
| 6 | 355 | 24563-280 |
| 6 | 415 | 24563-281 |
| 6 | 475 | 24563-282 |

ORDER INFORMATION FOR TELESCOPIC SLIDES



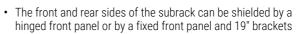
Remark

Telescopic slides C-profile page 6.71

nVent.com/SCHROFF



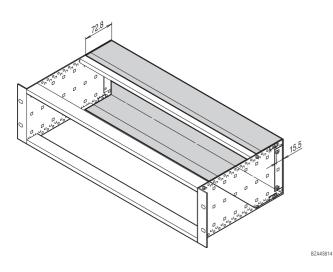
COVER/SHIELDING TO FRONT AND REAR

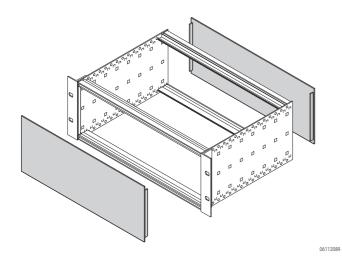


• The rear can be shielded with a front panel and a corner profile

Rear hood

see page 6.57





Front panel for front and rear

see page 6.58 to 6.60

Front panel, hinged/pivoted

135842160

see page 6.61



135842093

135842107



REAR HOOD FOR 3 U AND 6 U SUBRACKS (FOR STAINLESS STEEL EMC GASKET)

ORDER INFORMATION

| | | Rear hood | Stainless steel EMC plate and horizontal | gasket, between cover rail |
|---|---------------------------------------|--|--|-------------------------------|
| | | and the second s | 9 9 | |
| | C C C C C C C C C C C C C C C C C C C | Al, 1 mm, clear passivated; 60 mm additional side panel depth required (board depth + 60 mm); for shielding please order EMC gasket for horizontal rail separately; cannot be used simultaneously with g14 rear corner profile | stainless steel EMC gas clips into the horizontal forms the contact with suitable for all horizonta | rail and the cover plate; |
| Height | Width | | | |
| U | HP | 1 piece | PU 10 pieces | PU 100 pieces |
| 3 | 42 | 34561-750 | 24560-241 | - |
| 3 | 84 | 34561-752 | 24560-245 | 24560-246 |
| 6 | 63 | 34561-763 | 24560-243 | - |
| 6 | 84 | 34561-764 | 24560-245 | 24560-246 |
| Torx panhead screw, M4 × 6, St, zinc-plated, PU 100 pieces | | 24560-135 | | - |
| Assembly tool, for EMC gasket, stainless steel (horizontal rails), 1 j | piece Gr | - | 24560-271 | |

NOTE

• Other dimensions of rear hood available on request



FRONT/REAR PANELS, UNSHIELDED

ORDER INFORMATION

| | | | Front panel | | | | | |
|-------------|----------------|----------------|------------------------------|----------------------------------|------------|----------------------------------|--|----------------------------------|
| | | | pre-anodised cut edges pl | | anodised | | Front anodised rear iridescent chromated | |
| | | | Al, 2.5 mm | | Al, 2.5 mm | | Al, 2.5 mm | |
| Height U | Height mm | Width HP | 1 piece | 1 piece (SPQ 5) ¹⁾ | 1 piece | 1 piece (SPQ 5) ¹⁾ | 1 piece | 1 piece (SPQ 5) ¹⁾ |
| 1 | 44.45 | 28 | _ | | _ | (31 Q 3) | 20850-423 | (31 Q 3) - |
| 1 | 44.45 | 42 | _ | - | - | _ | 20850-425 | _ |
| 1 | 44.45 | 63 | _ | - | _ | _ | 20850-425 | - |
| 1 | 44.45 | 84 | _ | - | - | - | 20850-425 | _ |
| 2 | 84.0 | 84 | 30818-271 | | 30807-416 | | 30847-461 | _ |
| 3 | 128.4 | 2 | - | 30810-433 | - | 30810-432 | - | 30847-470 |
| 3 | 128.4 | 3 | _ | 30818-272 | _ | 30807-508 | _ | 30847-470 |
| 3 | 128.4 | 4 | - | 30818-272 | - | 30807-481 | - | 30838-043 |
| 3 | 128.4 | 5 | _ | 30818-274 | _ | 30807-510 | - | 30838-044 |
| 3 | 128.4 | 6 | - | 30818-275 | - | 30807-482 | _ | 30838-045 |
| 3 | 128.4 | 7 | _ | 30818-276 | _ | 30807-509 | - | 30838-045 |
| 3 | 128.4 | 8 | - | 30818-277 | - | 30807-309 | _ | 30838-040 |
| 3 | 128.4 | 10 | - | 30818-277 | - | 30807-484 | _ | 30838-047 |
| 3 | 128.4 | 12 | | 30818-281 | - | 30807-485 | _ | 30838-049 |
| 3 | 128.4 | 14 | _ | 30818-282 | _ | 30807-485 | _ | 30838-053 |
| 3 | 128.4 | 21 | - | 30818-289 | - | 30807-501 | _ | 30838-060 |
| 3 | 128.4 | 21 | _ | 30818-296 | _ | 30807-487 | _ | 30838-067 |
| 3 | 128.4 | 42 | | | | | | - |
| 3 | 128.4 | 63 | 30818-310 | | 30807-494 | _ | 30838-081 | _ |
| 3 | 128.4 | 84 | 30818-331 | | 30808-067 | _ | 30838-102 | - |
| 3 4 | 128.4 | 42 | 30818-352 | _ | 30807-506 | _ | 30838-123 30847-463 | - |
| | | 63 | - | - | _ | _ | | |
| 4 | 172.9 | | | | | _ | 30847-464 | - |
| 4 | 172.9 261.8 | <u>84</u> 2 | 30818-434 | | 30807-596 | | 30847-465 | - |
| 6 | | | - | 30818-747 | _ | 30818-741 | _ | 30847-472 |
| 6 | 261.8 261.8 | 4 | _ | 30818-518 | _ | - | - | 30838-124 |
| 6 6 | | 5 6 | - | | _ | _ | - | 30838-125 |
| | 261.8 | | | | _ | - | | 30838-126 |
| 6 | 261.8 | 7 | - | - | - | _ | - | 30838-127 |
| 6 | 261.8 | 8 | - | 30818-522 | | 20007 750 | - | 30838-128 |
| 6 | 261.8 | 10 | - | 30818-524 | - | 30807-753 | _ | 30838-130 |
| 6 | 261.8 | 12 | - | 30818-526 | - | - | - | 30838-132 |
| 6 6 | 261.8 261.8 | 14 | - | 30818-528 30818-530 | - | 30807-758 | _ | 30838-134 |
| о б | 261.8 | 16 21 | - | | - | - 30807-757 | - | 30838-136 |
| | | | | 30818-535 | | | | 30838-141 |
| 6 | 261.8 | 28 | - | 30818-542 | 20907 764 | 30807-766 | - | 30838-148 |
| 6 | 261.8 | 42 | 30818-556 | | 30807-764 | - | 30838-162 | - |
| 6 | 261.8 | 63 | 30818-577 | | 30807-771 | - | 30838-183 | - |
| 6 | 261.8 | 84 | 30818-598 | | 30807-776 | - | 30838-204 | - |
| 9 | 395.1 | 4 | - | - | - | - | - | 30847-476 |
| 9 | 395.1 | 8 | - | - | - | - | - | 30847-480 |
| 9 | 395.1 | 10 | - | - | - | - | - | 30847-482 |
| 9 | 395.1 | 12 | - | - | - | - | - | 30847-484 |
| 9 | 395.1 | 84 | - | - | - | - | 30847-556 | - |

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.73

1) 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



FRONT/REAR PANELS SHIELDABLE WITH STAINLESS STEEL EMC GASKET

ORDER INFORMATION

| Height U 2 3 3 | Height mm 84 128.4 | Width HP 84 | | | Stainless steel EMC inserted laterally into th suited for temperatures | he grooves of the front panel, |
|----------------------------|-----------------------------|-------------------|------------------------|-------------------------------|--|---|
| 2 3 | mm 84 128.4 | Width HP | alignment pins pressed | -in, St, stainless | inserted laterally into th suited for temperatures | he grooves of the front panel, s above 70 °C |
| J 2 3 | mm 84 128.4 | HP | 1 piece | | | |
| <u> </u> | 84 128.4 | | 1 piece | | | |
| } | 128.4 | 84 | | 1 piece (SPQ 5) ¹⁾ | PU 10 pieces | PU 100 pieces |
| | | | 30846-588 | - | 21101-775 | 21101-776 |
| | | 2 | - | 30846-864 | | |
| | 128.4 | 3 | - | 20846-425 | | |
| | 128.4 | 4 | - | 20846-426 | | |
| | 128.4 | 5 | - | 20846-427 | | |
| | 128.4 | 6 | - | 20846-428 | | |
| | 128.4 | 7 | - | 20846-429 | | |
| | 128.4 | 8 | - | 20846-430 | | |
| | 128.4 | 10 | - | 20846-431 | 21101-705 | 21101-706 |
| | 128.4 | 12 | - | 20846-432 | | |
| | 128.4 | 14 | - | 20846-433 | | |
| | 128.4 | 21 | - | 20846-434 | | |
| | 128.4 | 28 | - | 20846-436 | | |
| | 128.4 | 42 | 20846-437 | - | | |
| | 128.4 | 63 | 20846-438 | - | | |
| | 128.4 | 84 | 30846-676 | - | | |
| | 172.9 | 42 | 30846-681 | - | | |
| | 172.9 | 63 | 30846-682 | - | 21101-713 | 21101-714 |
| | 172.9 | 84 | 30846-683 | _ | | |
| | 261.8 | 2 | - | 30846-865 | | |
| | 261.8 | 4 | - | 20846-443 | | |
| | 261.8 | 5 | - | 20846-444 | | |
| | 261.8 | 6 | - | 20846-445 | | |
| | 261.8 | 7 | - | 20846-446 | | |
| | 261.8 | 8 | - | 20846-447 | | |
| | 261.8 | 10 | - | 20846-448 | | |
| | 261.8 | 12 | - | 20846-449 | 21101-707 | 21101-708 |
| | 261.8 | 14 | - | 20846-450 | | |
| | 261.8 | 16 | - | 20846-456 | | |
| | 261.8 | 21 | - | 20846-451 | | |
| | 261.8 | 28 | - | 20846-452 | | |
| | 261.8 | 42 | 20846-453 | - | | |
| | 261.8 | 63 | 20846-454 | - | | |
| | 261.8 | 84 | 30846-771 | - | | |
| 1 | 395.1 | 84 | 30846-859 | - | 21101-709 | 21101-710 |

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.73

1) 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



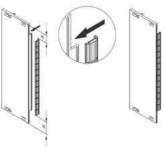
FRONT/REAR PANELS SHIELDABLE WITH TEXTILE EMC GASKET

ORDER INFORMATION

| | | | Front panel | | | |
|--------|----------------|-----------------|---|---|--|---------------------------|
| | | | Front panel for shielding with EN | MC sealing (textile) | Textile EMC gasket | |
| | | | Al extrusion, 2.5 mm, fi with alignment pin (not | ront anodised,rear conductive; 3, 6 U 84 HP) | textile gasket, core: foa sleeve: textile cladding UL 94 V-0 | ım, with CuNi coating, |
| Height | Height | Width | | 1) | | |
| U | mm | HP | 1 piece | 1 piece (SPQ 5) ¹⁾ | PU 10 pieces | PU 100 pieces |
| 2 | 84 | 84 | 20848-262 | - | - | 21101-856 |
| 3 | 128.4 | 2 | - | 30849-001 | | |
| 3 | 128.4 | 3 | - | 30849-004 | | |
| 3 | 128.4 | 4 | - | 30848-354 | | |
| 3 | 128.4 | 5 | - | 30848-378 | | |
| 3 | 128.4 | 6 | - | 30848-380 | | |
| 3 | 128.4 | 7 | - | 30848-382 | | |
| 3 | 128.4 | 8 | - | 30848-356 | | |
| 3 | 128.4 | 10 | - | 30848-386 | 21101-853 | 21101-854 |
| 3 | 128.4 | 12 | - | 30848-358 | | |
| 3 | 128.4 | 14 | - | 20848-013 | | |
| 3 | 128.4 | 21 | - | 20848-020 | | |
| 3 | 128.4 | 28 | - | 20848-027 | | |
| 3 | 128.4 | 42 | 20848-047 | - | | |
| 3 | 128.4 | 63 | 20848-068 | - | | |
| 3 4 | 128.4 172.9 | <u>84</u> 28 | 20848-097 | | | |
| | 172.9 | 42 | | 20848-268 | | |
| 4 | 172.9 | 63 | 20848-269 | - | 21101-858 | - |
| 4 | 172.9 | 63 84 | 20848-270 | - | | |
| 4 6 | 261.8 | 2 | 20848-271 | | | |
| 6 | 261.8 | 4 | - | 30849-002 | | |
| 6 | 261.8 | 5 | - | 30848-355 30848-379 | | |
| 6 6 | 261.8 | 5 | - | 30848-379 | | |
| 6 | 261.8 | 7 | - | 30848-381 | | |
| 6 | 261.8 | 8 | - | 30848-383 | | |
| 6 | 261.8 | 8 | _ | 30848-357 | | |
| 6 | 261.8 | 10 | - | 30848-387 | 21101-855 | 21101-856 |
| 6 | 261.8 | 12 | - | 20848-106 | 21101-000 | 21101-030 |
| 6 | 261.8 | 14 | - | 20848-108 | | |
| 6 | 261.8 | 21 | - | 20848-108 | | |
| 6 | 261.8 | 28 | _ | 20848-113 | | |
| 6 | 261.8 | 42 | 20848-139 | - | | |
| 6 | 261.8 | 63 | 20848-159 | - | | |
| 6 | 261.8 | 84 | 20848-189 | _ | | |
| 9 | 395.1 | 84 | 20848-280 | | 21101-859 | 21101-904 |

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.73

1) 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



EMC gasket stainless steel, for U-shaped front panel

1 Kit, 3U, 10pcs21102-1051 Kit, 4U, 10pcs21102-1131 Kit, 6U, 10pcs21102-1071 Kit, 9U, 10pcs21102-109



FRONT PANELS, HINGED AND PIVOTED

ORDER INFORMATION

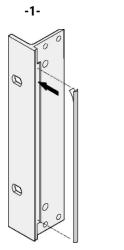
| | | Front pa | nel, bottom-hinged | Front panel, pivoted |
|--------|-------|--|---|---|
| | | shielded | unshielded | |
| | | | | |
| | | Taskazie Al, 2.5 mm,front anodised,rear conductive; textile EMC gasket hinge, Zn die-cast, nickel-plated; 2 / 3 x sleeve, PA; 2 / 3 x sknurled screws or collar screws m2.5x12,3, St, nickel plated | Al, 2.5 mm, anodised, cut edges plain; hinge, Zn die-cast, nickel-plated; 2 / 3 x sleeve, PA; 2 / 3 knurled screws or collar screws M2.5 x 12.3, St, nickel-plated | AI, 2.5 mm, 1354/2107 front anodised, rear conductive; hinge, die-cast zinc, chrome-plated; textile EMC gasket; 2/ 3 xsleeve, PA; 2/ 3 knurled screws or collar screws M2.5 x 12.3, St, nickel-plated |
| Height | Width | | | |
| U | HP | 1 piece | 1 piece | 1 piece |
| 3 | 28 | 20848-608 | 20838-280 | - |
| 3 | 42 | 20848-599 | 20838-271 | - |
| 3 | 63 | 20848-600 | 20838-272 | - |
| 3 | 84 | 20848-601 | 20838-273 | 20848-611 |
| 4 | 42 | 20848-605 | 20838-277 | - |
| 4 | 63 | 20848-606 | 20838-278 | - |
| 4 | 84 | 20848-607 | 20838-279 | - |
| 6 | 28 | 20848-696 | - | - |
| 6 | 42 | 20848-602 | 20838-274 | - |
| 6 | 63 | 20848-603 | 20838-275 | - |
| 6 | 84 | 20848-604 | 20838-276 | 20848-617 |

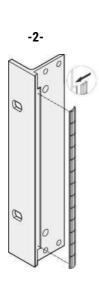
NOTE

• Front panel can be removed in opened position (> 135°)



SHIELDING IS REQUIRED BETWEEN THE FOLLOWING COMPONENTS OF A SUBRACK





- Front panel/rear panel and horizontal rail, see page 6.63
- Front panel and 19" bracket/corner profile or in case of depth-offset installation, see page 6.63
- Cover plate/horizontal rail, see page 6.51
- Cover plate/side panel, see from page 6.51
- Horizontal rail/horizontal rail in combined mounting (3 U + 3 U and 6 U), see page 6.67
- Shielding for backplane and side panel see page 6.65

EMC shielding concepts

- · Shielding concepts in accordance with IEEE and IEC
- Shielding effectiveness has been determined in various series of measurements in accordance with IEC 61587-3 and can be found online together with the relevant standard product
- The combined use of stainless steel and textile EMC gaskets is functionally possible without any problems

EMC shielding concept with EMC textile gaskets -1-

- The seal is affixed to the left-hand side of the subrack (viewed from front) or to the U-shaped front panel profile, respectively
- An EMC gasket with CuNi coating assures a long-term high level of shielding, typically 40 dB at 2 GHz
- Temperature-resistant adhesive layer is protected by a removable film
- Rear shielding is obtained using front panels or a rear hood
- Temperature range -40° C to +70° C or -40°C to +85°C

EMC shielding concept with EMC stainless gaskets -2-

- The seal is mounted to the left-hand side of the subrack (viewed from front) or to the U-shaped front panel profile, respectively
- An EMC gasket stainless steel assures a long-term high level of shielding, typically 40 dB at 2 GHz
- Rear shielding is obtained using front panels or a rear hood
- Temperature range -200° C to +160° C

Note: rear hood and corner profile cannot be used simultaneously

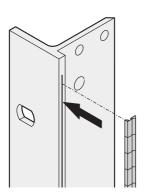
EMC shielding concept with stainless steel EMC gaskets and flat front panels)

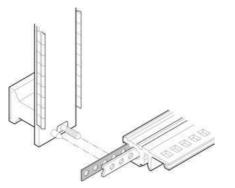
- Symmetrical arrangement of EMC gaskets on the left and right hand sides of subrack and front panel
- Shielding: typically 40 dB at 2 GHz
- Can be used for temperatures above -200 up to +160° C

Note: rear hood and corner profile cannot be used simultaneously

Front panel shielding concept

- Front panels are available for textile or stainless steel EMC gasket options
- Alignment pins are pressed-in in the front panel to position the gaskets securely and to compress them evenly
- An alignment pin positions the perforated strip in the horizontal rail
- Alignment pin and perforated strip provide an optimal positioning of the shielded assemblies; the front panels are not forced sideways by the shielding elements (SCHROFF patent)





06108073



EMC GASKETS BETWEEN FRONT/REAR PANEL AND HORIZONTAL RAIL

ORDER INFORMATION

| | | Stainless steel EMC gasket between front panel/rear pane | el and horizontal rail | |
|-------|-------|---|------------------------|---|
| | | stainless steel; for front and rear horizontal rails (type VT) | 06102053 | 1 |
| Width | Depth | | | |
| HP | mm | PU 10 pieces | PU 100 pieces | |
| 28 | 131.8 | 24560-229 | - | |
| 42 | 202.9 | 24560-231 | - | |
| 63 | 304.5 | 24560-233 | - | |
| 84 | 416.6 | 24560-235 | 24560-236 | |

24560-270

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

ORDER INFORMATION

Assembly tool, for stainless steel EMC gasket

| | | e -200° C +160°C el/rear panel and19" | Textile EMC gasket temperature range -4 between front panel/r 19" bracket/corner pr | ear panel and | Stainless steel EM temperature range between front pane 19" bracket/corner | -200° C +160°C el/rear panel and |
|--|---|--|--|---------------|---|---|
| | O | D D D D D D D D D D D D D D D D D D D | a | | | a ast |
| | P | 06105077 | | | | |
| | inserted laterally into of the front panel | o the grooves | textile gasket, core: foa sleeve: textile cladding UL 94 V-0 | | | which can be assembled to the and the 19" brackets for textile 06108054 |
| Height U Depth mm | PU 10 pieces | PU 100 pieces | PU 10 pieces | PU 100 pieces | PU 10 pieces | PU 100 pieces |
| 3 97.5 | 21101-705 | 21101-706 | 21101-853 | 21101-854 | 21102-105 | 21102-106 |
| 4 142.5 | 21101-713 | 21101-714 | 21101-858 | - | 21102-113 | - |
| 6 232.5 | 21101-707 | 21101-708 | 21101-855 | 21101-856 | 21102-107 | 21102-108 |
| 9 365.0 | 21101-709 | 21101-710 | 21101-859 | 21101-904 | 21102-109 | - |
| Assembly tool, for stainless steel EMC gasket | | | Textile EMC gasket, temperature range -4 | 0° C +85°C | | |
| | | | PU 10 pieces | PU 100 pieces | | |
| | 2456 | 60-270 | 3U 21102-853 | 21102-854 | | |
| R. C. | | | 4U 21102-858 | - | 1 | |
| Q. | | | 6U 21102-855 9U 21102-859 | 21102-856 | | |
| | | | 50 ZIIUZ-039 | _ | | |



EMC GASKETS BETWEEN HORIZONTAL RAIL AND HORIZONTAL RAIL

ORDER INFORMATION

| | | Stainless steel EMC gasket between horizontal rail and horizontal rail |
|-------|-------|---|
| Width | Depth | |
| HP | mm | PU 1 kit |
| 20 | 107.0 | 24562-520 |
| 28 | 147.0 | 24562-528 |
| 40 | 208.0 | 24562-540 |
| 42 | 218.0 | 24562-542 |
| 63 | 325.0 | 24562-563 |
| 84 | 431.0 | 24562-584 |

1) 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

EMC GASKETS BETWEEN FRONT PANEL AND SIDE PANEL (DEPTH-OFFSET INSTALLATION)

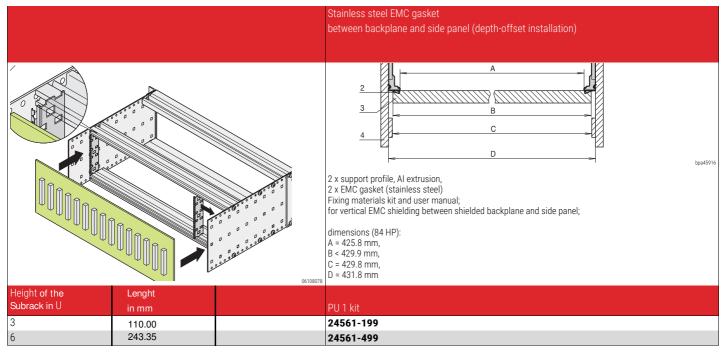
ORDER INFORMATION

| | | | Stainless steel EMC gasket between front panel and side panel (depth-offset installation) | Textile EMC gasket between front panel and side panel (depth-offset installation) |
|------------------------------|---------------------|----|---|--|
| | | | Item 1: 2 x support profiles, Al extrusion; item 2: 2 x stainless steel EMC gasket; fixing material kit for vertical EMC shielding between depth-offset shielded front panels and side panel | tem 1: 2 x support profiles, Al extrusion; item 2: 1 x EMC textile gasket; fixing material kit for vertical EMC shielding between depth-offset shielded front panels and side panel |
| Height | Depth | | | |
| U | mm | | PU 1 kit | PU 1 kit |
| 3 | 97.5 | | 24562-199 | 24560-180 |
| 4 | 142.5 | | 24562-299 | 24560-280 |
| 6 | 187.5 | | 24562-499 | 24560-480 |
| Assembly tool, EMC gasket | for stainless steel | Gr | 24560-270 | - |



EMC GASKETS BETWEEN BACKPLANE AND SIDE PANEL

ORDER INFORMATION



- With an appropriate design the backplane can be used as shielding rear panel; for that purpose a rear horizontal rail (type L-VT or H-VT) for depth-offset installation must be used to ensure the horizontal contact
- For vertical contact the support profile can be fixed to the europacPRO side panel (depth grid 30 mm)



SPECIAL INTERIOR MOUNTING PARTS

- Horizontal board mounting, see page 6.66
- Combined mounting: 3 U + 3 U and 6 U, see page 6.67
- Mounting plates, see page 6.68
- Central locking for PCBs, see page 6.69
- Divider plates, see page 6.69
- Air baffles, see page 6.70
- Telescopic slides, see page 6.71 to 6.72
- Fixing parts (bolts, nuts, assembly tools), see page 6.73

HORIZONTAL BOARD MOUNTING IN 3 OR 4 U SUBRACK

ORDER INFORMATION

| | Horizontal board mounting in 3 or 4 | 1 U subrack | |
|---|---|--|--|
| | Board cage | Front frame for EMC shielding | Front frame, unshielded |
| 6 HE | Struts, die-cast zinc; horizontal rails front and rear; threaded inserts, St, zinc-plated; fixing material kit; for horizontal mounting of double-height euroboards in 3 or 4 U high subracks/cases; 54 HP space required; please order front frame for EMC shielding separately | 2 horizontal covers, AI 2.5 mm, front anodised, rear iridescent green chromated; 2 vertical trims, AI extrusion, passivated; stainless steel EMC gasket; front frame provides the contact between subrack and the sub-assemblies | Al, 2.5 mm, clear anodised; front frame with cut-out, clear internal width w = 266.35 mm |
| (1 TE = 1 HP, 1 HE = 1 U) bps45914 Height Usable Mounting variants | | | |
| U height h Horizontal rail, front Horizontal rail, rear HP | PU 1 kit | PU 1 kit | 1 piece |
| 3 20 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u> | 24564-117 | 24564-109 | 34564-108 |
| 3 20 <u><u> </u></u> | 24564-118 | 24564-109 | 34564-109 |
| | 24564-217 | 24564-209 | 34564-208 |
| Assembly tool, for stainless steel EMC gasket | - | 24560-270 | - |

* For direct backplane mounting

NOTE

• Please order front frame for EMC shielding separately



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

ORDER INFORMATION

| | Combined mounting: | Alternative front panels f | or combined mounting | Splitting extrusion |
|--|--|--|---|---|
| | horizontal and vertical subdivision | unshielded | front panel for | for combined mounting |
| | (incl. front panel for stainless steel | front panel, | textile EMC gasket, | item 2 |
| | ÈMC gasket) | 6 U, 2 HP | 6 U, 2 HP | |
| | | item 6 | item 6 | |
| | 2 2 1.3 1.3 1.4 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | Al, 2.5 mm, front anodised, rear iridescent green chromated | Al, 2.5 mm, U-profile with notch, 6 U, 2 HP | 6 U, die-cast zinc; splitting extrusion is inserted in the grid holes of the horizontal rail; the splitting extrusion can be bolted |
| Width pitch T1:T2 HP | PU 1 kit | 1 (SPQ 5) | 1 piece (SPQ 5) ¹⁾ | 1 piece |
| 20:62 | 24562-420 | | | 1 piece |
| 40:42 | 24562-440 | | | |
| 42:40 | 24562-442 | 30847-472 | 30849-140 | 64560-010 |
| 63:19 | 24562-463 | | | |
| 84:0 | 24562-484 | | | |
| Torx countersunk screw | | | | |
| M4 × 14, zinc-plated, PU 100 pieces to fixsplitting extrusion/horizontal rail | - | - | - | 24560-145 |
| Panhead screw M2.5 × 10, St, zinc-plated, PU 100 pieces to fix horizontal rail/splitting extrusion | - | - | - | 24560-179 |
| Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated, PU 100 pieces | - | 21101-101 | 21101-101 | - |
| Pozidrive/slotted collar screw M2.5, black, zinc-plated, PU 100 pieces | - | 21101-102 | 21101-102 | - |
| Washer 2.7 x 5 x 1, PA 6, PU 100 pieces | - | 21101-121 | 21101-121 | - |
| Textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0 PU 10 pieces | | - | 21101-855 | - |

2) The following guide rails cannot be used: type "accessory", type "accessory, strengthened" and type "for 4.4" PCB"

- Subdivision of the 6 U assembly area into:
 - 2 x 3 U
 - 1 x 6 U
- Designed to accomodate euroboards (100 mm high) and double euroboards (233.35 mm high)

NOTE

- Please order EMC gasketing kit for horizontal rails separately, see page 6.51
- Please order perforated strips for horizontal rails separately, see page 6.37
- Please order rear centre horizontal rail separately, see page 6.35

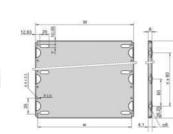


MOUNTING PLATES

ORDER INFORMATION

| | | | | Mounting plate | Mounting plate for the use without co | ver plate |
|-------------------------|--|----------------------------------|------------------------------------|---|--|---|
| | | | | can be used in combination with cover plate | for complete subrack width | for partial width of a subrack |
| ~ | g plate for use with g plate for use with | 2 | e 33395116 | Al, 1.5 mm; 10822054 mounting is only possible over the entire width between the side panels; width of mounting plate = W - 9.71 mm Torque moment for fastening screws = 1,5 Nm | Al, 1.5 mm; for mounting over complete width. Torque moment for fastening screws = 1,5 Nm | Al, 1.5 mm; for mounting over partial width, |
| Width W | W | Depth | Board length | | | |
| HP | mm | mm | mm | 1 piece | 1 piece | 1 piece |
| 28 | 146.88 | 112.5 | 160 | 34563-001 | 34562-745 | 34562-745 |
| 28 28 | 146.88 | 172.5 | 220 | 34563-009 | 34562-749 | 34562-749 |
| 28 | 146.88 146.88 | 232.5 292,2 | 280 340 | | 34562-753 34562-757 | 34562-753 |
| 42 | 217.99 | 112,5 | 160 | 34563-002 | 34562-757 | 34562-757 34562-746 |
| 42 | 217.99 | 172,5 | 220 | 34563-014 | 34562-750 | |
| 42 | 217.99 | 232,5 | 220 | | 34562-754 | 34562-750 34562-754 |
| 42 | 217.99 | 292,2 | 340 | _ | 34562-758 | 34562-758 |
| 63 | 324.67 | 112,5 | 160 | 34563-003 | 34562-747 | 34562-747 |
| 63 | 324.67 | 172,5 | 220 | 34563-019 | 34562-751 | 34562-751 |
| 63 | 324.67 | 232,5 | 280 | - | 34562-755 | 34562-755 |
| 63 | 324.67 | 292,2 | 340 | - | 34562-759 | 34562-759 |
| 84 | 431.35 | 112,5 | 160 | 34563-004 | 34562-748 | - |
| 84 | 431.35 | 172,5 | 220 | 34563-024 | 34562-752 | - |
| 84 | 431.35 | 232,5 | 280 | 34563-026 | 34562-756 | - |
| 84 | 431.35 | 292,2 | 340 | 34563-028 | 34562-760 | - |
| 84 | 431.35 | 352,5 | 400 | 34563-042 | 34562-870 | - |
| 84 | 431.35 | 412,5 | 460 | 34563-044 | 34562-871 | - |
| counters screw M | y kit for mountir sunk screw M4 x 4 x 6, St, zinc-pla inc-plated, 14 pi | 5, St,zinc-pla ated, 14 piece | ited, 16 pieces; es; square nut | 24560-184 | 24560-184 | - |
| 2 x St, th plated; N | y kit for partial n readed inserts 1 12,5mm, 6 x scre re nut M4, 5 x sc manual | 3HP, 5,0 x 2, w M2,5x6, (0 | 0 mm, zinc I,37Nm) | - | - | 24560-127 |

A Contraction of the second se



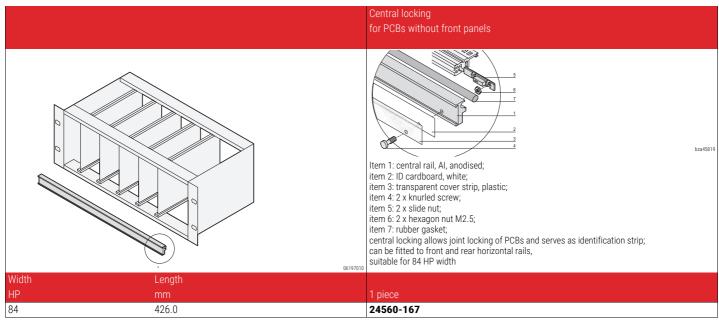
NOTE

- For installation and fixing of heavy components
- In addition to the mounting plate, (EMC) cover plates can also be fitted to the subrack
- The mounting plate is as wide as the subrack or system case and is fixed to the side panels
- A guide rail can be fitted on the first and last slot
- Guide rails type "4.4" and type "strengthened" cannot be used



CENTRAL LOCKING

ORDER INFORMATION



DIVIDER PLATE

ORDER INFORMATION

| | | | | | Divider plate Mounting position when stainless steel EMC gasket is used Mounting position when textile EMC gasket is used |
|--------|-------|-------|-------|-------|--|
| Ø | | | | 2 | A A Image: transmission of the second sec |
| Height | Depth | А | В | Н | |
| U | mm | mm | mm | mm | PU 10 pieces |
| 3 | 160 | 158.3 | 135.0 | 113.5 | 34562-761 |

| U | mm | mm | mm | mm | PU 10 pieces |
|---|-----|-------|-------|-------|--------------|
| 3 | 160 | 158.3 | 135.0 | 113.5 | 34562-761 |
| 3 | 220 | 218.3 | 195.0 | 113.5 | 34562-762 |
| 6 | 160 | 158.3 | 135.0 | 246.9 | 34562-763 |
| 6 | 220 | 218.3 | 195.0 | 246.9 | 34562-764 |



AIR BAFFLES FOR SLOTS

ORDER INFORMATION

| | | | Air baffle | Air baffle with front panel | |
|---------------|------------------|------------------|--|---|--|
| | | | without front panel | Front panel with lateral groove for stainless steel EMC gasket | U front panel for textile EMC gasket |
| | | | Al, 1 mm, incl. fixing material kit; prevents an air short circuit in unused slot positions; is pushed into the groove of the guide rail | Air baffle, Al, 1 mm; front panel, Al, 2.5 mm, front anodised, rear conductive; stainless steel EMC gasket; fixing material kit prevents an air short circuit in unused slot positions; is pushed into the groove of the guide rail | Air baffle, Al, 1 mm, front panel, Al extrusion, 2.5 mm, front anodised, rear conductive; textile EMC gasket, fixing material kit prevents an air short circuit in unused slot positions; is pushed into the groove ofthe guide rail |
| Depth | Width | 061015 Height | 70 | | |
| mm | HP | U | 1 piece | 1 piece | 1 piece |
| 160 | 4 | 3 | 34562-823 | 20848-712 | 20848-728 |
| 160 | 4 | 6 | 34562-826 | 20848-720 | 20848-736 |
| 220 | 4 | 3 | 34562-824 | 20848-713 | 20848-729 |
| 220 | 4 | 6 | 34562-827 | 20848-721 | 20848-737 |
| Assembly tool | teel EMC gasket, | |) | 045/0 070 | |
| 1 piece | leel EMC gaskel, | Cen mar | _ | 24560-270 | - |
| | | | A Commence of the second se | 1 Kit, 3U, 10p | stainless steel, for U-shaped front panel cs 21102-105 CS 21102-107 |

NOTE

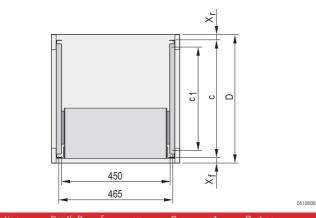
• Air baffle for 280 mm deep and for 80 mm rear I/O boards or other width (HP) available on request

SIMPLE TELESCOPIC SLIDE FOR ASSEMBLY OF SUBRACKS IN CABINETS



Order Information

Telescopic slides with guiding profile for fitting in cabinets



| Description | Depth D | xf | | С | c1 | Part no. |
|-------------|---------|----|----|------|-------|-----------|
| | mm | mm | mm | mm | mm | |
| VARISTAR | 600 | 50 | 50 | 500 | 368,8 | 24562-464 |
| VARISTAR | 800 | 50 | 50 | 700 | 568,8 | 24562-466 |
| VARISTAR | 900 | 50 | 50 | 800 | 668,8 | 24562-467 |
| VARISTAR | 1000 | 50 | 50 | 900 | 768,8 | 24562-468 |
| VARISTAR | 1100 | 50 | 50 | 1000 | 868,8 | 24562-472 |
| VARISTAR | 1200 | 50 | 50 | 1100 | 968,8 | 24562-473 |
| eurorack | 600 | 60 | 60 | 480 | 397 | 24562-449 |
| eurorack | 800 | 60 | 60 | 680 | 597 | 24562-451 |
| eurorack | 900 | 60 | 60 | 780 | 697 | 24562-452 |
| NOVASTAR | 500 | 33 | 60 | 407 | 350 | 24562-460 |
| NOVASTAR | 600 | 33 | 60 | 507 | 450 | 24562-461 |
| NOVASTAR | 800 | 33 | 60 | 707 | 650 | 24562-474 |
| Lab rack | 250 | 0 | 0 | 250 | 162 | 24562-446 |

x_f, x_r: Distance of 19" plane to cabinet edge (front, rear)

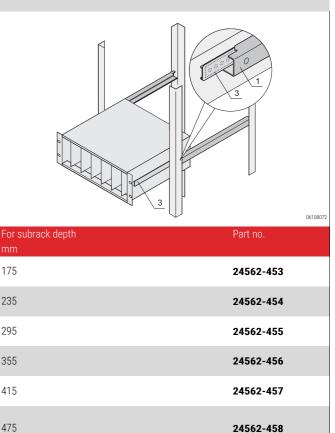
c: Distance of 19" planes from each other,

c1: Fixing dimension of guiding profile on 19" panel/slide mounts

- For mounting 84 HP wide subracks in the 19" plane
- · Loading capacity: 25 kg per pair
- The guiding profile is matched to the fixing dimension in the cabinet (it is bolted to the 19" profile of the cabinet); the adaptor rail is matched to the depth and fixing dimension on the subrack (it is inserted into the guiding profile like a telescopic slide)
- Safety note: • No protection against extraction, no stop at full extension

Order Information

Telescopic slides with adaptor rail for subracks



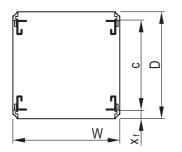




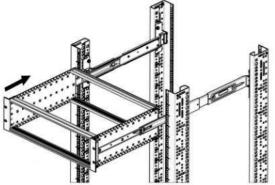


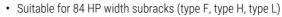
TELESCOPIC SLIDE, NARROW, FOR SUBRACK





C dimensions: Varistar 500 mm and 700 mm, Novastar 507 mm to 707 mm





- Locks at full extension
- Hinged
- Extension length > 100 %
- Rail width 7.5 mm
- Maximum clear width of extension/drawer w = 84 HP (435 mm)

DELIVERY INCLUDES

| Item | Qty | Description |
|------|-----|----------------------------------|
| 1 | 2 | Telesconic slide St. zinc-plated |

ORDER INFORMATION

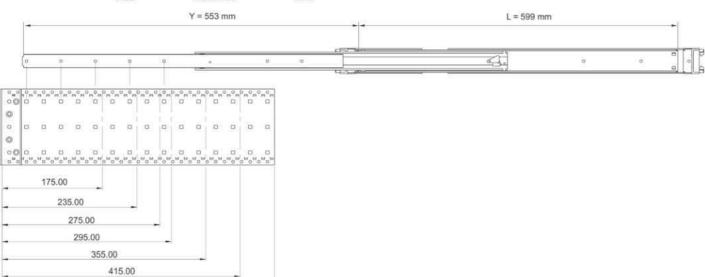
| Fixing mate PU 1 kit | rials kit for Varistar, to mount 2 telescop rials kit for Novastar, to mount 2 telesco | | 21120-193 21120-194 | | |
|-------------------------|---|-----------------------------|------------------------|--|--|
| Fixing mate | rials kit for Varistar, to mount 2 telescop | DIC SIIDES, | 21120-193 | | |
| Accessone | Fixing materials kit for Varistar, to mount 2 telescopic slides, PU 1 kit | | | | |
| Accessorie | s | | | | |
| 559 | See table Technical data | 15 | 60110-440 | | |
| mm | mm | kg | | | |
| Length L | Extension length Y | Load-carry- ing capacity | Part no. | | |

Technical data

| Length L mm | Extension length Y Varistar SL/HD mm | Novastar SL mm | Novastar HD mm |
|----------------|--|-------------------|-------------------|
| 559 | 553 | 565 | 555 |

NOTE

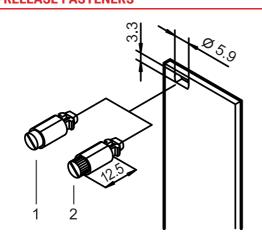
- To mount on 19" plane please order assembly kit separately
- Telescopic rail cannot be combined with BGTR with corner profile (rear)



475.00



- Quick-release fasteners, see page 6.73
- Sleeves, see page 6.73
- Screws, see page 6.74 to 6.76
- Cage nuts, see page 6.76
- Tools / Tape measure, see page 6.78



- · Vibration and shock proof
- 1/4 rotary lock with defined stop
- Detection of locking position through slot position

DELIVERY COMPRISES

| Q | lty | Description |
|---|-----|---------------------------------------|
| 1 | | Locking pin, St, locking, Zn die-cast |
| 1 | | Press-in sleeve, POM |

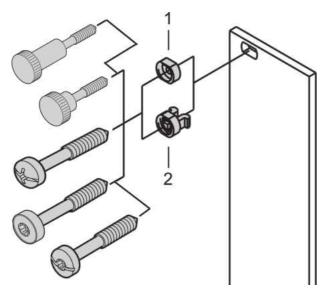
ORDER INFORMATION

| Item | Description | Qty/PU | Part no. |
|------|--------------------------------------|--------|-----------|
| 1 | With slotted head, grey | 100 | 21101-847 |
| 1 | With slotted head, black | 100 | 21101-848 |
| 2 | With knurled and slotted head, grey | 100 | 21101-849 |
| 2 | With knurled and slotted head, black | 100 | 21101-850 |

NOTE

Quick-release fasteners: mounting without threaded inserts

SLEEVES



ORDER INFORMATION

| Item | Description | Qty/PU | Part no. |
|------|------------------------------------|--------|-----------|
| 2 | Plastic sleeve, PA, grey | 100 | 21100-464 |
| 2 | Plastic sleeve, PA, black | 100 | 21100-591 |
| 1 | Metal sleeve, brass, nickel-plated | 10 | 21100-659 |
| 1 | Metal sleeve, brass, nickel-plated | 100 | 21100-660 |
| 1 | Metal sleeve, brass, black | 10 | 21100-885 |
| 1 | Metal sleeve, brass, black | 100 | 21100-886 |
| 1 | Metal sleeve, stainless steel | 10 | 21100-661 |
| 1 | Metal sleeve, stainless steel | 100 | 21100-662 |

NOTE

- Metal sleeves must be pressed-in in front panels
- Sleeve does not fit in 2 HP wide front panels

107887281

QUICK-RELEASE FASTENERS



COLLAR SCREWS

ORDER INFORMATION

| | Description | Application | Torque | Material | Dimension | Qty/PU | Part no. |
|-------------|--------------------------------------|--|-------------|---------------------------|-------------|--------|-----------|
| Or | Collar screw with philips drive/slot | For mounting of front panels when when using threaded inserts | max. 0,3 Nm | St, nickel-plated | M2.5 x 12.3 | 100 | 21102-026 |
| | Collar screw with | For mounting of front panels when | max. 0,3 Nm | St, nickel-plated | M2.5 x 12.3 | 100 | 21101-101 |
| 1 Alexandre | 108909341 pozi drive/slot | when using threaded inserts | max. 0,3 Nm | Stainless steel | M2.5 x 12.3 | 100 | 21101-906 |
| | | | max. 0,3 Nm | St, zinc-plated, black | M2.5 x 12.3 | 100 | 21101-102 |
| | Collar screw with Torx 8 /slot | For mounting of front panels when when using threaded inserts | max. 0,3 Nm | St, nickel-plated | M2.5 x 12.3 | 100 | 21101-976 |
| 6 | Collar screw Torx 8 | For mounting of front panels when when using threaded inserts | max. 0,3 Nm | St, nickel-plated | M2.5 x 12.3 | 100 | 21101-782 |
| 0 | 137813729 | | max. 0,3 Nm | St, zinc-plated, black | M2.5 x 12.3 | 100 | 21101-783 |
| O'real | Collar screw with | For mounting of front or side hingded front panels when using threaded inserts or slides (page 6.68) | max. 0,3 Nm | Brass, nickel-plated | M2.5 x 12.3 | 100 | 21101-749 |
| Or and | knurled head | For mounting of front or side hingded front panels when using threaded inserts or slides (page 6.68) For horizontal rails with long lip (H-LL or R_LL) | max. 0,3 Nm | Brass, nickel-plated | M2.5 x 12.3 | 100 | 21101-909 |

TORX SCREWS, SELF-FORMING

ORDER INFORMATION

| | Description | Application | Torque | Material | Dimension | Qty/PU | Part no. |
|------------|--|---|---------------|----------------------------------|-----------|--------|-----------|
| 06707058 | Torx panhead screw, self-forming | For extra-robust Al guide rails; | max. 0,2 Nm | St, zinc flake coating, black | 2.5 x 7.3 | 100 | 24560-157 |
| 06707058 | Torx countersunk screw, self-forming | For 4.4" board height, guide rail on horizontal rail, europacPRO, ratiopacPRO | max. 0,2 Nm | St, zinc-plated | 2.5 x 7.7 | 100 | 24560-158 |
| 06707058 | Torx panhead screw, self-forming | For plastic guide rail on horizontal rail; for panel bracket on horizontal rail; | max. 0,2 Nm | St, zinc-plated | 2.5 x 9.3 | 100 | 24560-141 |
| 0.67(7)558 | Torx panhead screw, self-locking | For plastic guide rails on horizontal rails | 5 max. 0,2 Nm | St, zinc-plated | 2.5 × 9.3 | 100 | 21500-039 |
| MAM | Torx panhead screw | For 6 U support member, backplane mo centre horizontal rail | unting, | St, zinc-plated | 2.5 × 10 | 100 | 24560-179 |

06707058



COUNTERSUNK SCREWS

ORDER INFORMATION

| | Description | Application | Material | Dimension | Qty/PU | Part no. |
|---------|-------------|--|-----------------|-----------|--------|-----------|
| 44 June | - | For support profiles europacPRO, ratiopacPRO | St, zinc-plated | M4 x 5 | 100 | 24560-139 |
| 135482 | Torx screw | For mixed board assembly and assembly of shortened horizontal rail on support member, with GND/earthing function | St, zinc-plated | M4 x 14 | 100 | 24560-145 |

TORX PANHEAD SCREWS

ORDER INFORMATION

| | Description | Application | Material | Dimension | Qty/PU | Part no. |
|---------------------------------------|-----------------------------------|---|-------------------|---------------|--------|-----------|
| | | For Z-rails and connector assembly | St, nickel-plated | M2.5 x 7 | 100 | 24560-147 |
| 1354854 | ⁴³ Torx panhead | For perforated rails | St, nickel-plated | M2.5 x 10 | 100 | 24560-148 |
| | screw | For backplane mounting | St, nickel-plated | M2.5 x 12 | 100 | 24560-161 |
| 1354854 | 0 | For backplane mounting | St, nickel-plated | M2.5 x 14 | 100 | 24560-162 |
| (O) aza45178 | Washer | For insulated backplane mounting | Plastic, PA | 2.8 x 6.3 x 2 | 100 | 21101-964 |
| 2245940 2245940 | Screw + plastic washer (PA) | For backplane mounting | St, nickel-plated | M2.5 x 12 | 100 | 21100-777 |
| | | To bolt on support bracket, rear hood, corner profile on side panel, lengthening bracket and connecting bracket | St, zinc-plated | M4 x 6 | 100 | 24560-135 |
| 400 | | To bolt-on cover plate or mounting plate, with GND/earthing function | St, zinc-plated | M4 x 6 | 100 | 24560-151 |
| 135482269 | | To bolt-on cover plate or mounting plate, with GND/earthing function, self-forming thread | St, zinc-plated | M4 × 6 | 100 | 21101-884 |
| 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Torx panhead screw | For horizontal rail on side panel if guide rails are bolted to slot 1 | St, zinc-plated | M4 x 10 | 100 | 24560-155 |
| - Summer | | For horizontal rail on side panel, with GND/earthing function | St, zinc-plated | M4 × 14 | 10 | 24560-131 |
| 135482266 | | For horizontal rail on side panel, with GND/earthing function | St, zinc-plated | M4 x 14 | 100 | 24560-130 |



GRUB SCREWS

ORDER INFORMATION

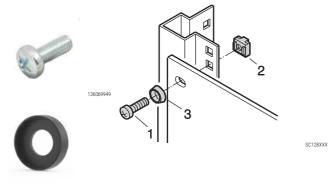
| 135545261 | | For threaded inserts M2.5 and perforated strips Torque: 0,37Nm | Stainless steel | M2.5 x 9, Torx8 | 100 | 21102-980 |
|-----------|------------|---|-------------------|-----------------|-----|-----------|
| | | | | | | |
| 101 - T | Grub screw | For threaded inserts M2.5 | St, nickel-plated | M2.5 x 8 | 100 | 21100-276 |
| 135545261 | | For threaded inserts M3 | St, zinc-plated | M3.0 x 8 | 100 | 21100-646 |

SQUARE NUTS

ORDER INFORMATION

| Description | Application | Material | Dimension | Qty/PU | Part no. |
|-------------|---|-----------------|-----------|--------|-----------|
| Square nut | For fixing: parts to side panels, support profiles, mounting plates | St, zinc-plated | M4 | 100 | 24560-140 |

ASSEMBLY KITS



135436392



135485321

- · For assembly of subracks in cabinets or 19" cases
- For assembly of desk-top cases in cabinets by means of 19" brackets

DELIVERY COMPRISES (kit)

| Item | Qty | Description |
|------|-----|--------------------------------------|
| 1 | 1 | Pozidrive screw M6 × 16, zinc-plated |
| 2 | 1 | Plastic washer, ABS, black |
| 3 | 1 | Cage nut M6, steel nickel plated |
| - | | |

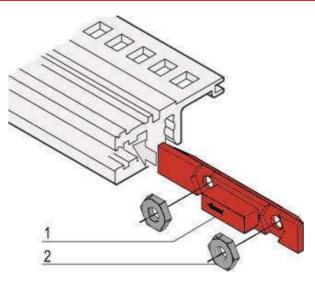
ORDER INFORMATION

| Description | Part no. |
|--|-----------|
| PU = 8 × screw, washer, nut | 21100-435 |
| PU = 50 each of M6 screw, washer and cage nut | 21101-809 |
| PU = 100 each of M6 screw, washer and cage nut | 21101-810 |

 For 19" brackets with material thickness of 1.5 mm, see "Assembly kits" in chapter Cabinet accessories



SLIDE, TO ACCOMODATE 2 NUTS



• The slide is pushed into the groove of the horizontal rail to front or rear (type VT)

DELIVERY COMPRISES (kit)

| Item | Qty | Description |
|------|-----|------------------------------|
| 1 | 1 | Slide, PBT, red, UL 94 V-0 |
| 2 | 2 | Nut, M2.5, St, acier nickelé |

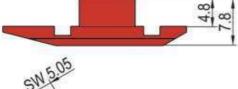
ORDER INFORMATION

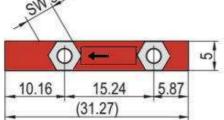
| Description | | Part no. |
|-----------------|---------------------|-----------|
| Slide nut kit 1 | 100 slides/200 nuts | 24560-165 |
| Slide nut kit 2 | 12 slides/24 nuts | 24560-166 |

NOTE

06702060

- Nuts used in item 3 suitable for:
- hinged front panels, 84 HP
- front or rear panels, 84 HP
- Nuts used in item 4 suitable for:
 hinged front panels
- Nuts used in item 3 and 4 suitable for:
- two front panels







ASSEMBLY TOOLS

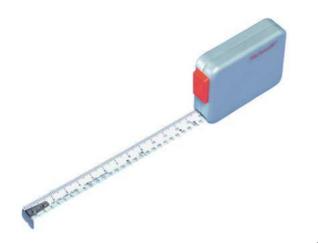
| ORDER INFORMATION | |
|-------------------|-------------|
| | Description |
| | |
| | |
| \square | |

| \bigcirc | | T 8 torx | Τ8 | 1 | 64560-026 |
|------------|------------------|---|-----|---|-----------|
| D. D. | Torx screwdriver | To fix the top cover locking | T10 | 1 | 64560-230 |
| | AZA45925 | T 20 torx | T20 | 1 | 64560-027 |
| Ca | Assembly tool | Exclusively to fix stainless steel EMC gaskets in horizontal rails | - | 1 | 24560-271 |
| - | Assembly tool | To fix stainless steel EMC gaskets on front panels with lateral slots | _ | 1 | 24560-270 |

NOTE

 Assembly tool to insert keying/coding pegs in guide rails is available on request

TAPE MEASURE



135542978

- Measuring tape with cm, U-, HP-division (length 2 m)
- Plastic housing, metal measuring tape with automatic collection

ORDER INFORMATION

| Description | Qty/PU piece | Part no. |
|--------------|-----------------|-----------|
| Tape measure | 1 | 89009-001 |



APPLICATION EXAMPLES

Application: Transportation/defense sectors



• Mounting frame to accomodate a 36 HP wide railway subrack, frame from stainless steel



- · Robust assembly by double bolt-on fixing
- Lateral ducting in cabinet

06108006

06108002

06112023

• Combined mounting 6 U+ 2 x 3 U

Application: Measurement, control and instrumentation sectors



- Combined mounting with 2 x 3 U in 6 U
- · Divider plate to separate different sections
- · Installation with strengthened guide rails

Application: Telecoms sectors



- · Subrack with additional telescopic fan unit
 - · Adaptation at bottom and top integrated into the side panel



- · Shielded subrack for special applications with mounting plate, cover and base plate
- · Mounting plate for heavy assemblies



- · Subrack with plastic cable ducting for fibre optic cables
- · Terminal area at top



06108003

nvent schroff

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.

Simple assembly with europacPRO kits:

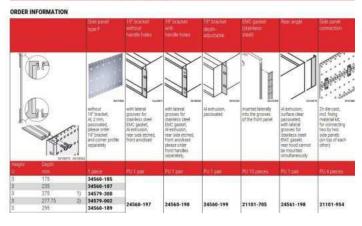


Delivered in space-saving flat packs. The threaded inserts or EMC gasket (depending on selected kit) are already pre-mounted on the horizontal rail.

Two ways of reaching your desired product:

- Kits
- Individual configuration
- Individual configuration:

SIDE PANELS TYPE F FOR STAINLESS STEEL GASKET



06109052

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

06107001

06112004

06112021





Light

06197007 Heavy

06197008 Rugged

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)



Type Light

0619700



Type Heavy



Type Flexible



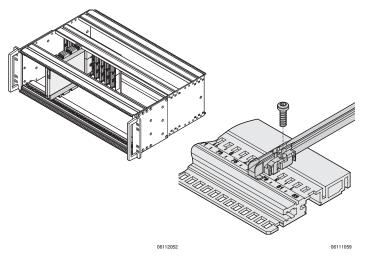
Type Rugged

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



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, ...).

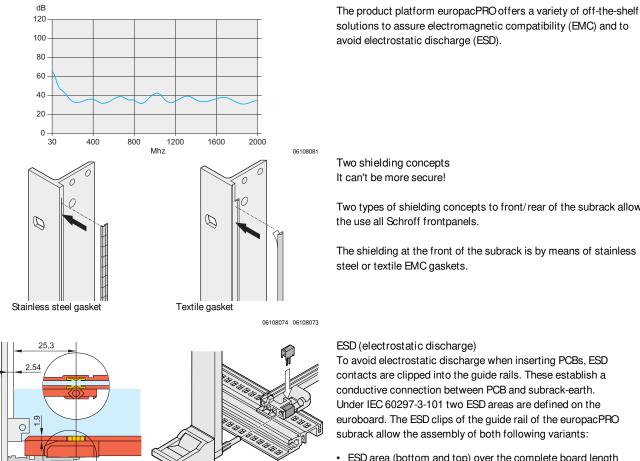
Robust snap-in fixings on the plastic rails assure a secure grip, even when exposed to vibrations. In the case of H and R-type horizontal rails the guide rails can also be bolted on. For extreme stresses, guide rails in aluminium extrusion are used.

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



solutions to assure electromagnetic compatibility (EMC) and to

Two types of shielding concepts to front/rear of the subrack allow

The shielding at the front of the subrack is by means of stainless

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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Our powerful portfolio of brands: CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER



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