

Printed board handle A

- Assembly behind front panels
- Only use printed board handle in conjunction with printed board retainer A (60817-097)
- Insertion and extraction function
- Labelling option

Order Information

B4-2728

Item	Description	Material	Colour	Qty / PU	Order no.
1	Printed board handle A	PBTP, UL94V-0	red	SPQ 1) 10 pieces	60817-096
2	Pivot pin	Stainless steel	_	100	21100-671
3	Identification strip	Polyester film self-adhesive	matt- silver	100	21100-672

1) Delivery may be in standard pack quantity: Please order 10 pieces of printed board handles or a multiple. Pricing is per individual item

BZA42727



For further information www.schroff.biz/oneclick oneClick code = Order no.

R7442724

Printed board retainer A

- Can also be used without printed board handle
- Can be assembled on upper and lower horizontal rail

Order Information

Item	Description	Material	Colour	Qty	Order no.
4	Printed board retainer A for top and bottom (not for europacPRO)	PPO, UL 94 V-0	red	SPQ 1) 10 pieces	60817-097

1) Delivery may be in standard pack quantity: Please order 10 pieces of printed board retainers or a multiple. Pricing is per individual item.

Note

C4-2728

- Not usable:
 - for europac PRO, ratiopac PRO
 - for guide rails with screw connection
 - for guide blocks
 - for front light weight horizontal rails with clipped in cover plate
- Minimum spacing of guide rail 3 HP



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UK 04/2006 7.84



- Assembly behind front panels
- Printed board handle can only be used in conjunction with printed board retainer A (64560-377)
- Insertion and extraction function
- Labelling option

Order Information

Item	Description	Material	Colour	Qty / PU	Order no.
1	Printed board handle with integrated assembly pin	PBT, UL 94 V-0	red	10	24560-378
3	Identification strip (1 sheet = 438 pieces)	Polyester film self-adhesive	white/ matt	1	60817-228

Note

- Can only be used together with guide rails europac PRO for accessories
- Minimum spacing of guide rail 3 HP

BPA45910



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BZA42724

Printed board retainer europacPRO/ratiopacPRO

- Can also be used without printed board handle
- Can be assembled on upper and lower horizontal rail

Order Information

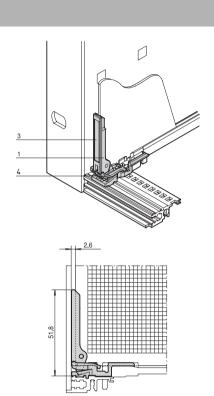
Item	Description	Material	Colour	Qty/PU	Order no.
1	Printed board retainer europacPRO, PBT, UL 94 V-0, red	PBTP, UL 94 V-0	red	10	24560-377

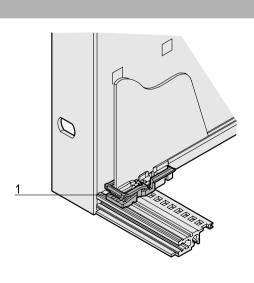
Note

- Minimum spacing of the guide rail 3 HP
- Not usable on cases propac, compac, inpac

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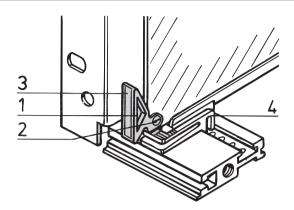
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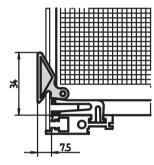


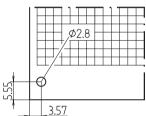


Electronics Packaging

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Printed board handle B1

- To screw or rivet onto printed boards
- Can be used with printed board retainer B
- Labelling option
- Extraction function only

Order Information

Item	Description	Material	Colour	Qty / PU	Order no.
1	Printed board handle to screw on	PBTP, UL 94 V-0	red	SPQ 1) 10 pieces	60817-067
1a	Printed board handle to rivet on	PBTP, UL 94 V-0	red	SPQ 1) 10 pieces	60817-072
2	Countersunk screw	St, nickel- plated, DIN 965	-	100	21100-515
2a	Tubular rivet	Brass	_	100	21100-076
3	Indentification strip	Polyester film self-adhesive	white	100	21100-569

1) Delivery may be in standard pack quantity: Please order 10 pieces of printed board handles or a multiple. Pricing is per individual item.

BZB42725



For further information www.schroff.biz/oneclick oneClick code = Order no.

R7442724

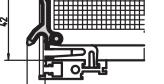
Printed board handle B2

- To screw onto printed boards; can only be used on the lower horizontal rail
- Can be used with printed board retainer B
- Extraction function only
- Labelling option

Order Information

Item	Description	Material	Colour	Qty / PU	Order no.
1	Printed board handle	PBTP, UL 94 V-0	red	SPQ 1) 10 pieces	6081 <i>7</i> -055
2	Socket cap head screw with slot, M2.5 × 6	St, nickel- plated	-	100	21100-146

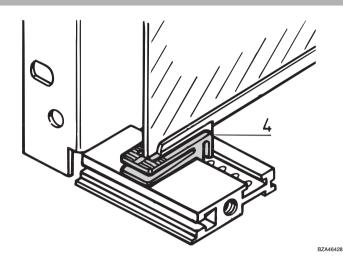
1) Delivery may be in standard pack quantity: Please order 10 pieces of printed board handles or a multiple. Pricing is per individual item.



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BZB42726

R7446427



Printed board retainer B

- Can be assembled on upper and lower horizontal rail
- Can also be used without printed board handle
- Can also be used with guide blocks

Order Information

Item	Description	Material	Colour	Qty	Order no.
4	Printed board retainer at bottom	PPO, UL 94 V-0	red	SPQ 1) 10 pieces	60817-054
4a	Printed board retainer at top	PPO, UL 94 V-0	black	SPQ 1) 10 pieces	60817-071

1) Delivery may be in standard pack quantity: Please order 10 pieces of printed board retainers or a multiple. Pricing is per individual item.

Note

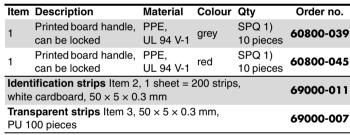
■ Not usable for europac PRO and ratiopac PRO



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Printed board handle, can be locked



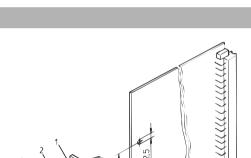


1) Delivery may be in standard pack quantity: Please order 10 pieces of printed board handles or a multiple. Pricing is per individual item.

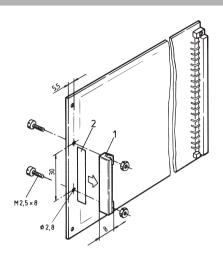




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Printed board handle, to screw/rivet on

Order Information

Item	Description	Material	Colour	Qty	Order no.	
1	Printed board handle, to screw/rivet on	Acrylic	yellow	SPQ 1) 10 pieces	60817-050	
2	Printed board handle, to screw/rivet on	Acrylic	red	SPQ 1) 10 pieces	60817-051	
1	Printed board handle, to screw/rivet on	Acrylic	green	SPQ 1) 10 pieces	60817-052	
	Identification strip Item 2, white cardboard, 1 sheet, PU 100 pieces					
Pozidrive flathead screw M2.5 \times 8, St, nickel-plated, PU 100 pieces					21101-069	
Hexagon nut A 2.5, nickel-plated, PU 100 pieces					21100-144	
					_	

1) Delivery may be in standard pack quantity: Please order 10 pieces of printed board handles or a multiple. Pricing is per individual item.



For further information www.schroff.biz/oneclick oneClick code = Order no.

Printed board jacket

- For assembly of printed boards in euroboard format 100 x 160 mm
- For spring contact strips in accordance with EN 60603
- Distance between printed board and board jacket 3 mm

Delivery comprises (kit)

Item	Qty	Description
1	1	Printed board jacket, PC, grey
3	2	Retention bracket, St, 2 mm, nickel-plated
4	2	Socket cap head screw M 2.5×6 , St, nickel-plated
5	2	Socket cap head screw M 4×12 , St, nickel-plated

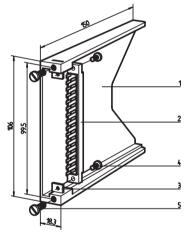
Order Information

Item	Description	Material	Colour	Qty/PU	Order no.
1	Printed board jacket EN 60603	PC	grey	1	20800-032

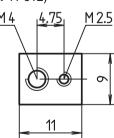
■ Connector (item 2) see chapter Accessories - Connectors



For further information www.schroff.biz/oneclick oneClick code = Order no.

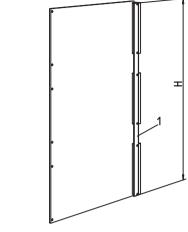


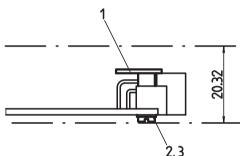
Retention bracket (DIN 41 612)



KA42606

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Printed board reinforcement

- Protects large printed boards against deformation
- Combines all connectors with one another as the second leg (in accordance with directives IEEE, P 896, Nubus, Multibus[®] II etc.)
- Assembly points suitable for connectors in accordance with EN 60603, type B, R, C and D

Delivery comprises (kit)

	,	- p-1-0-0 ()
Item	Qty	Description
1	1	Printed board reinforcement, AI extrusion, anodised, cut edges untreated
2	6	Socket cap head screws M 2.5×12 , St, nickel-plated
3	6	U washer 2.6, St, nickel-plated

LKA42609

Order Information

Description	Height H	Order no.
	mm	
For 9 U printed board	361.6	20809-441



For further information www.schroff.biz/oneclick oneClick code = Order no.

LKA42593

Printed board cover

■ Mechanical protection of the solder side

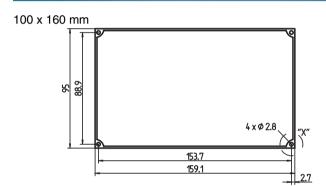
Order Information

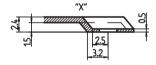
Description	Qty	Order no.
Printed board cover for euroboards (100 x 160 mm), PBTP, UL 94 V-0, black	SPQ 1) 10 pieces	61000-007
Printed board cover with low temperature expansion coefficient (same as FRA4 printed board); for euroboards (100 x 160 mm), LCP, UL 94 V-0, white	,	61000-177
Printed board cover for double euroboards (233.35 x 160 mm), PP, UL 94 V-0, black	SPQ 1) 10 pieces	61000-012

1) Delivery may be in standard pack quantity: Please order 10 pieces of printed board covers or a multiple. Pricing is per individual item



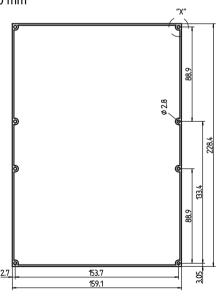
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LKA4052





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LKA30451

BZA46430

Printed board bracket

■ For the assembly of the printed board onto the front panel

Order Information

Item	Description	Required quantity for 3 U	Required quantity for 6 U	Order no.
5	4 holes for front panel/ printed board assembly, 4 pockets for hexagon nuts, PBT, UL 94 V-0, red, 1 piece	1	2	60807-011
5a	4 threads M2.5 for front panel/ printed board asembly, PBT UL 94 V-0, grey, 1 piece	1	2	60807-211
5b	Hole for front panel assembly, with pocket for hexagon nut, hole for self-tapping screw for printed board assembly, PBT UL 94 V-0, grey, 1 piece	2	4	60807-183
5c	2 threads M2.5 for front panel/ printed board assembly, Zn die-cast, 1 piece	2	4	60807-181
5d	Thread M 2.5 for front panel assembly, hole for printed board assembly, Zn die-cast, 1 piece	2	4	60807-203
5e	4 threads M2.5 for front panel/ printed board assembly for recessed installation of printed board (20 mm), mounting depth 192.24 mm, St, zinc-plated, not for europacPRO, ratiopacPRO, 1 piece	1	2	30808-871

Delivery may be in Standard Pack Quantity: Please order 10 pieces or a multiple. Pricing is per individual item.



For further information www.schroff.biz/oneclick oneClick code = Order no.

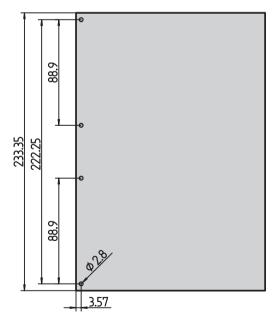
14/14a 13 11 5/5a 5c/5d 5b 5b

Drill hole dimensions on the printed board

6 U

3.57

BGA43076



BGA43077

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Contact spring for electrostatic discharge (ESD)

- Assembly between front panel and die-cast printed board bracket of a plug-in unit
- Discharge via a horizontal rail with a conductive finish (chromated)
- Configuration top and/or bottom

Order Information

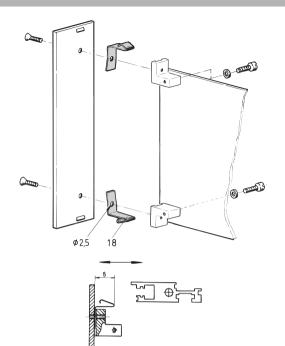
Item	Description	Material	Qty / PU	Order no.
18	Contact spring for electro- static discharge (ESD)	St, corrosion- free	50	21101-147

Note

■ Not usable for subrack europacPRO and desk-top case ratiopacPRO

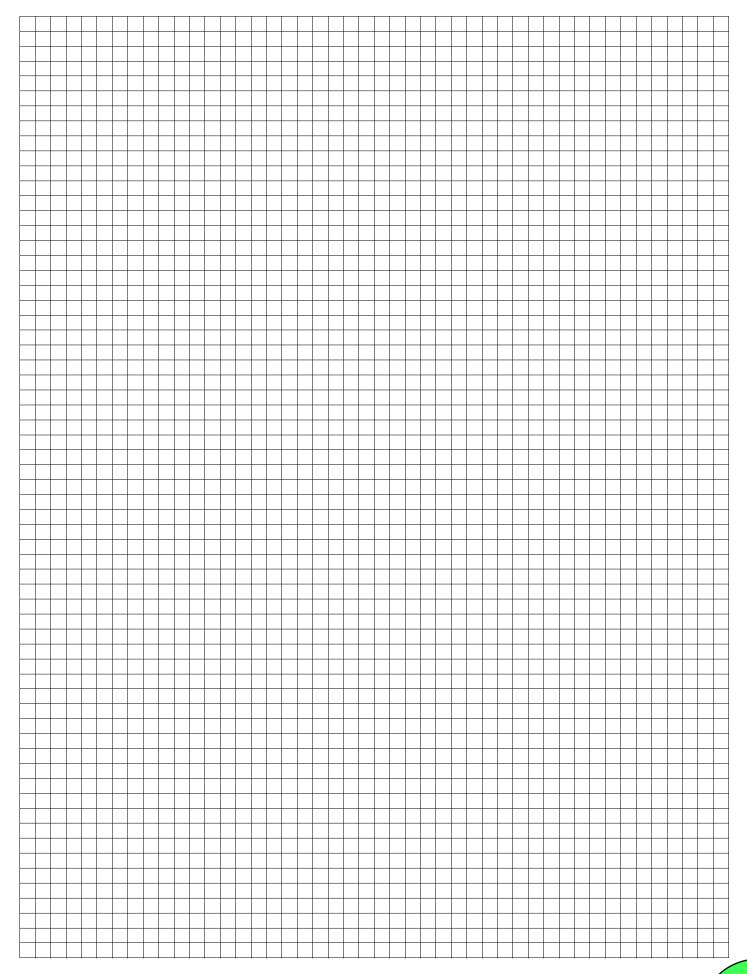


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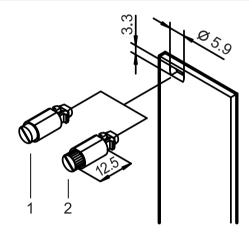


A4-2184



Assembly parts

- Quick-release fastener
- Sleeve
- Screws
- Cage nuts
- Tools



Quick-release fastener

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

Delivery comprises

Qty	Description
1	Locking pin, St, locking, Zn die-cast
1	Press-in sleeve, POM

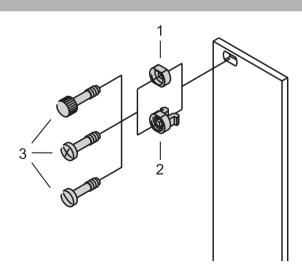
Order Information

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

Note

Quick-release fastener: mounting without threaded insert

Sleeve



Order Information

Item	Description	Qty/PU	Order 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 have to be pressed into the front panels
- Not for front panels 2 HP
- Please order collar screw (item 3) separately, see page 7.95

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Collar screw

Order Information

 	Gradi illionilation					
	Description	Application	Material	Dimension	Qty / PU	Order no.
			St, nickel-plated	M2.5 × 11	100	21100-748
		For assembly of front panels if threaded strips are used; not for europacPRO and ratiopacPRO	Ms, zinc-plated, black	M2.5 × 11	100	21100-749
	Collar screw with		V2A, only slot	M2.5 × 11	100	21101-323
AZA46586	Pozidrive/slot		St, nickel-plated	M2.5 × 12.3	100	21101-101
		For assembly of front panels if threaded strips are used; also for europacPRO and ratiopacPRO	St, zinc-plated, black	M2.5 × 12.3	100	21101-102
			V2A	M2.5 × 12.3	100	21101-906
		For assembly of front panels if threaded strips are used; also for europacPRO and ratiopacPRO	St, nickel-plated	M2.5 × 12.3	100	21101-782
 AZA45941	Torx		St, zinc-plated, black	M2.5 × 12.3	100	21101-783
	Collar screw with knurled head	For assembly of front panels if threaded strips are used; not for europacPRO and ratiopacPRO	Ms, nickel-plated	M2.5 × 11	50	21100-268
			Ms, zinc-plated	M2.5 × 12.3	100	21101-749
AZA45929		For assembly of front panels if threaded strips are used; also for europacPRO and ratiopacPRO horizontal rails with long lip	Ms, nickel-plated	M2.5 × 12.3	100	21101-909
		For assembly of front panels if threaded strips are used; not for europacPRO and ratiopacPRO	Ms, nickel-plated	M2.5 × 11	100	21101-106
 AZA45930						



Countersunk screw **Order Information** Material Qty/PU Description Application **Dimension** Order no. For plastic handle 3 HP/4 HP on front panel of St, nickel-plated $M2.5 \times 6$ 100 21100-515 plug-in units Pozidrive c/sk screw For handles on plug-in units St, nickel-plated $M2.5 \times 12$ 100 21100-507 Countersunk For contact strips europacPRO, ratiopacPRO St, zinc-plated $M4 \times 5$ 100 24560-139 screw with Torx For mixed board assembly and assembly of shortened horizontal rail on support member, St, zinc-plated 100 24560-145 $M4 \times 14$ with GND/earthing function For printed boards on front panel M2.5 × 8 100 St, nickel-plated 21100-429 St, nickel-plated $M2.5 \times 10$ 100 21100-500 Raised Pozidrive St, zinc-plated, 21100-649 $M2.5 \times 10$ 100 c/sk screw black For printed board bracket on the front panel St, nickel-plated $M3 \times 8$ 100 21100-542 06702056 St, zinc-plated, $M3 \times 8$ 100 21100-648 black St, zinc-plated, $M2.5 \times 7.3$ 100 24560-157 For Al guide rails, heavy duty black For 4.4" board height; guide rail on Pan head screw St, zinc-plated $M2.5 \times 7.7$ 100 24560-158 horizontal rail, europacPRO, ratiopacPRO with torx For plastic guide rail on horizontal rail; for control St, zinc-plated 100 $M2.5 \times 9.3$ 24560-141

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panel bracket assembly on horizontal rail



Pan head screw

Order Information

	Description	Application	Material	Dimension	Qty / PU	Order no.
		For brackets on plug-in units	St, nickel-plated	M2.5 × 4	100	21101-218
		For Z or perforated rails on horizontal rails	St, nickel-plated	M2.5 × 5	100	21101-314
		For spring contact strips on Z-rail cable ducting	St, nickel-plated	M2.5 × 6	100	21101-219
	Pan head Pozidrive c/sk	For printed boards on printed board bracket	St, nickel-plated	M2.5 × 8	100	21101-069
	screw	For printed boards on printed board bracket	St, nickel-plated	M2.5 × 10	100	21101-220
		For handles on plug-in units	St, nickel-plated	M2.5 × 12	100	21101-221
		For handles on plug-in units	St, nickel-plated	M2.5 × 16	100	21101-222
06702057		For mounting of horizontal/central rail on compac cases	St, zinc-plated	M5 × 12	100	21100-788
		For printed board assembly	St, zinc-plated	M2.5 × 6	100	24560-159
		For Z-rails and connector assembly	St, nickel-plated	M2.5 × 7	100	24560-147
		For perforated rail	St, nickel-plated	M2.5 × 10	100	24560-148
		For backplane assembly	St, nickel-plated	M2.5 × 12	100	24560-161
		For backplane assembly	St, nickel-plated	M2.5 × 14	100	24560-162
	Pan head screw with Torx	For backplane assembly	St, nickel-plated	M2.5 × 16	100	24560-163
		To screw on support bracket, rear hood, rear angle on side panel, extension bracket and adapter bracket	St, zinc-plated	M4 × 6	100	24560-135
		To screw on cover plate or chassis plate, with GND/earthing function	St, zinc-plated	M4 × 6	100	24560-151
		For horizontal rail on side panel if guide rail bolted onto pin position 1	St, zinc-plated	M4 × 10	100	24560-155
AZA45940		For horizontal rail on side panel, with GND/earthing function	St, zinc-plated	M4 × 14	100	24560-130
06702051	Screw + securing washer	For backplane assembly	St, nickel-plated	M2.5 x 12	100	21100-777



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	Description	Application	Material	Dimension	Qty / PU	Order no.
aza45184	Cheesehead screw with hexagon socket	For mounting of horizontal-/ central rail on compacPRO cases	St, zinc-plated	M5 × 12	100	21101-05 <i>7</i>
06702050	Taptite screw with hexagon socket	For mounting of horizontal-/ central rail on compacPRO cases	St, zinc-plated	M5 × 12	100	21100-457

		Grub scre	w			
	Order Information					
	Description	Application	Material	Dimension	Qty/PU	Order no.
		For threaded inserts M2.5 and perforated strips	Stainless steel	M2.5 × 9	100	21101-359
	Grub screw	For threaded inserts M2.5	St, nickel-plated	M2.5 × 8	100	21100-276
BZA458	853	For threaded inserts M3	St, zinc-plated	M3.0 × 8	100	21100-646

			Washer				
			Order Infor	mation			
	Description	Application		Material	Dimension	Qty/PU	Order no.
	Washer	For front panel, 2 HP		Plastic, PA	2.7 × 5 × 1	100	21101-121
	VVa 511 C 1	For handles on plug-in units		St, nickel-plated	A2.7 DIN 125	100	21100-721
0	Shakeproof washer	For printed board assembly		St, nickel-plated	2.6	100	21100-142

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Nut

Order Information

	Description	Application	Material	Dimension	Qty/PU	Order no.
AZA43239	Hexagon nut	For handles on plug-in units	St, nickel-plated	M2.5	100	21100-144
AZA45927	Square nut	For handles on plug-in units	St, nickel-plated	M2.5	100	21100-359
AZA45921	Square nut	For assembly of components on side panels, contact strips, chassis plates	St, zinc-plated	M4	100	24560-140

Tubular rivets

Order Information

	Description	Application	Material	Dimension	Qty/PU	Order no.
1	Tubular rivets	For printed board assembly	-	B2.5 × 0,25 × 5	5 100	21100-459

Slide nut for front horizontal rail

Order Information

Order Information					
Description	Application	Material	Dimension	Qty / PU	Order no.
Clide put AF 7	For front horizontal rail;	Slide nut, St,	M2.5	100	21100-112
Slide nut, AF 7	alternative to threaded insert; not for europacPRO and ratiopacPRO	nickel-plated, Slide, PA	МЗ	100	21100-289

A4-559-1

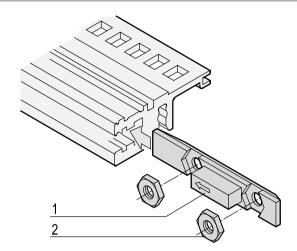
Slide nut for rear horizontal rail

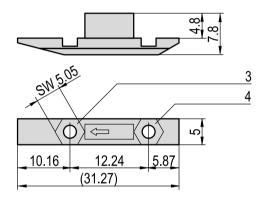
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Order Information

	Ordor inito	manon			
Description	Application	Material	Dimension	Qty/PU	Order no.
Slide nut, AF 5	For rear horizontal rail; alternative to threaded insert; not for europacPRO and ratiopacPRO	Slide nut, St, nickel-plated, Slide, PA	M2.5	100	21100-425
05802056					

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Slide nut

- For europacPRO and ratiopacPRO
- The slide nut is inserted into the slot in the horizontal rail instead of threaded inserts

Delivery comprises (kit)

Item	Qty	Description	
1	1	Slide, red, UL 94 V-0, PBT	
2	2	Nut M 2.5, St, zinc-plated	

Order Information

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

Note

■ Nuts used in location 3:

Application for

- hinged front panels 84 HP
- full-width front panels or full-width rear panels 84 HP
- Nuts used in location 4:

Application for

- hinged front panels
- Nuts used in location 3 and location 4: Application for
 - two front panels



For further information www.schroff.biz/oneclick

oneClick code = Order no.

06702060

Assembly kit

- Subracks in cabinets or 19" case
- Case with 19" brackets in cabinets

Delivery comprises (kit)

Item	Qty	Description
1	1	Screw M6 × 16, zinc-plated pozidrive
2	1	Plastic washer, ABS, black
3	1	Cage nut M6, zinc-plated

Order Information

Description	Order no.
PU per 8 × (screw, washer, nut)	21100-435
1 PU = per 50 × (screw, washer, nut)	21101-809
1 PU = per $100 \times$ (screw, sasher, nut)	21101-810

SC128XXX

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	Assembly tool			
	Order Information			
	Description	Dimension	Qty/PU	Order no.
Torx screwdriver	T8 × 60	1	64560-026	
AZA45925		T20 × 100	1	64560-027
Torx bit for screwdriver	Т8	1	64560-028	
AZA45924		T20	1	64560-029
aza45938	Assembly tool for horizontal rails	-	1	24560-271
aza45937	Assembly tool for front panels	-	1	24560-270

Tape measure



- Tape measure with cm, U and HP division (length 2 m)
- Outer casing plastic, metal tape measure with automatic retraction

Order Information

Description	Qty / PU	Order no.
Tape measure	1	89009-001

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