



Schroff

CABINET AND WALL-MOUNTED CASE ACCESSORIES

Content **Cabinet Accessories – Overview**

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



Mechanics

Telescopic slides

Electrics

36108007 (00504002 00509005 00508006 00508008 00505032 00711023 00504006 01495004)

Cabinet Accessories – Overview

Overview 3.0

Monitors, keyboards



Socket strips



Mechanics

- 19" front panels with cable eyes, cable through-ducting 3.2
- 19" cable tray 3.9
- Cable ductings ... 3.10
- 19" equipment shelves 3.11
- 19" drawers 3.13
- 19" distribution field 3.14
- 19" mounting tray for LSA+ 3.15
- 19" module support 3.16
- Assembly kit 3.17
- Cable supports . 3.21
- Cable channels .. 3.21

Telescopic slides 3.22

Electrics

- Cabinet lights 3.29
- Door contact switches 3.32
- 19" distributors .. 3.33
- Small distribution modules 3.34
- Supply modules .. 3.34
- GND/earthing rails 3.37
- Equipment cables 3.38
- Bus bars 3.39

Monitor, keyboard

- Monitor, keyboard 3.44
- 19" drawer with keyboard 3.45

Socket strips with connecting cable

- SCHUKO 3.52
- UTE 3.55
- IEC 3.58
- BS 3.61
- US 3.62
- Switzerland 3.63
- 19" power distributors, 3-phase 3.65
- Socket strips, Wieland® 3.66

Power Control

- socket strips 3.72
- Multimeter 3.74
- Telemonitored socket strips 3.75

Power management software 3.79

Cabinet Accessories – Mechanics

Front Panel Express



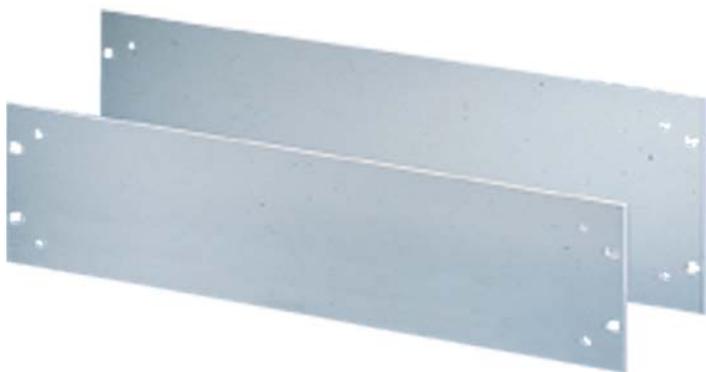
FRONT PANEL EXPRESS

30402151_e

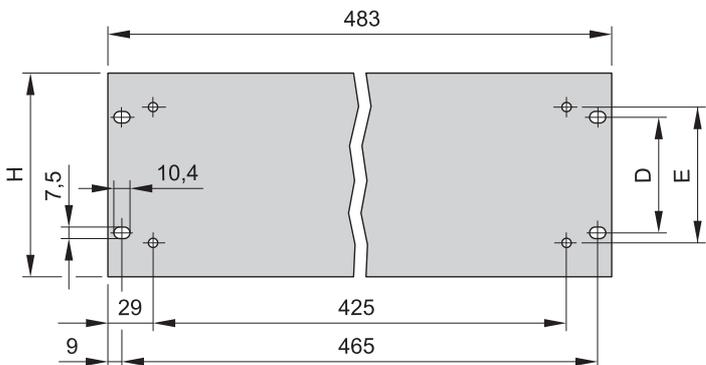
We make your front panel.
You determine how long it takes us.

- **Simple:** You configure your front panels direct online. No registration, no program downloads. The price is displayed immediately.
- **Fast:** You specify your front panel in just a few minutes - and we manufacture it from as little as in 2 days.
- **Flexible:** You determine the quantity and manufacturing time - and thus the cost.
- **Individual:** We make the panels to your specification - mechanical processing, painting and printing.
- **Practical:** We make the job easier for you - if you wish we will also fit the accessories.

19" front panels with holes for handles



00592006



BZA42371

- 19" front panels have additional holes for mounting of handles

Delivery comprises

Item	Qty	Description
1	1	19" front panel, Al

Order Information

Height	H	D	E	Front panel, 4 mm, anodised	Front panel, 3 mm, pre-anodised, cut edges plain
U	mm	mm	mm	Part no.	Part no.
1	43.6	31.7	25	40304-050	30219-161
2	88.1	76.2	55	40304-051	30219-162
3	132.5	57.1	88	40304-052	30219-163
4	177.0	101.6	120	40304-053	30219-164
5	221.4	146.0	180	40304-054	30219-165
6	265.9	190.4	180	40304-055	30219-166

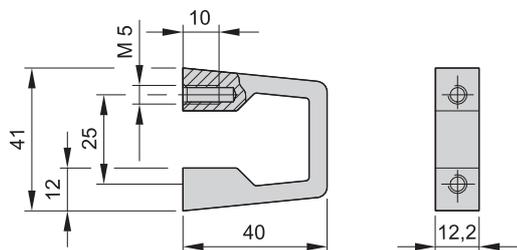
Note

- 19" assembly kit, see page 3.17
- Front panel processing to your instructions under www.frontpanelexpress.eu

Cabinet Accessories – Mechanics

Front handle, one-piece, width 12.2 mm

1 U



BZA42316

- Static load-carrying capacity 30 kg/pair

- Bolted from rear

Delivery comprises

Item	Qty	Description
1	1	Front handle, Al extrusion, anodised

Order Information

Height	A	E	clear anodised Part no.	black anodised Part no.
U	mm	mm		
1	41	25	10501-116	–
2	69	55	10501-004	10501-025
3	102	88	10501-005	10501-026
4	132	120	10501-006	10501-027
5	194	180	10501-007	10501-028
6	249	235	10501-008	10501-029

Accessories

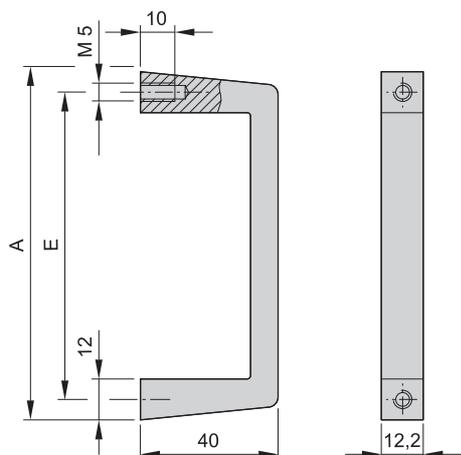
Panhead screw pozidrive self-locking, M5 × 12, zinc-plated, PU 100 pieces	21100-788
---	------------------

Delivery is exclusively in Standard Pack Quantity (SPQ): Minimum order quantity 10 front handles or a multiple thereof

Note

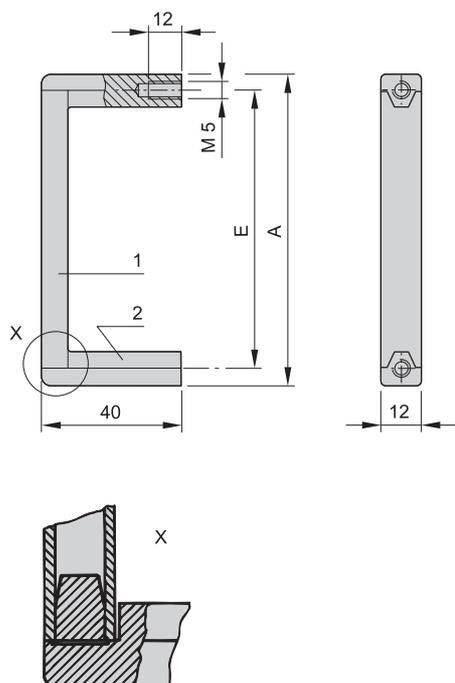
- Please order panhead screws separately

2 U ... 6 U



BZA42327

Front handle, multi-part, width 12 mm



A3-227

- Static load-carrying capacity 10 kg/pair

- In three parts, middle section in Al extrusion, end pieces in glass fibre reinforced plastic

- Bolts on from front

Delivery comprises (kit)

Item	Qty	Description
1	1	Front handle, AL extrusion, anodised
2	2	End piece, PA, black

Order Information

Height	A	E	Part no.
U	mm	mm	
3	102	88	10502-057
4	134	120	10502-059
5	194	180	10502-063
6	249	235	10502-065

Accessories

Panhead screw pozidrive self-locking, M5 × 12, zinc-plated, PU 100 pieces	21100-788
---	------------------

Delivery is exclusively in Standard Pack Quantity (SPQ): Minimum order quantity 10 front handles or a multiple thereof

Note

- Please order panhead screws separately

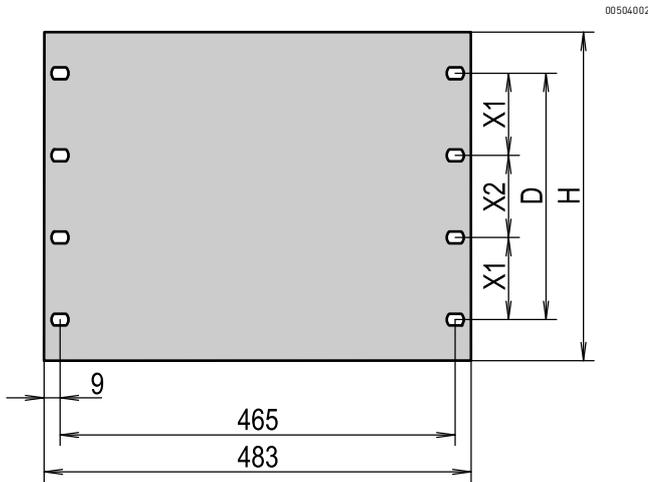
Cabinet Accessories – Mechanics

19" front panels

- Al anodised, colours light grey (RAL 7035) or black grey (RAL 7021)

Delivery comprises

Item	Qty	Description
1	1	19" front panel, Al, 3 mm/4 mm



sza42889

Order Information

Height	H	D	X1	X2	Mounting holes	3 mm thick, RAL 7021	3 mm thick, RAL 7035	3 mm, Al anodised, cut edges plain	4 mm, Al anodised
U	mm	mm	mm	mm	pieces	Part no.	Part no.	Part no.	Part no.
1	43.6	31.7	-	-	4	30118-948	30118-299	30219-098	40304-074
2	88.1	76.2	-	-	4	30118-949	30118-301	30219-101	40304-075
3	132.5	57.1	-	-	4	30118-950	30118-302	30219-104	40304-076
4	177.0	101.6	-	-	4	30118-951	30118-303	30219-107	40304-077
5	221.4	146.0	-	-	4	30118-952	30118-304	30219-110	40304-078
6	265.9	190.4	-	-	4	30118-953	30118-305	30219-113	40304-079
7	310.3	234.9	88.9	57.1	8	30118-954	30118-306	30219-137	40304-080
8	354.8	279.4	101.6	76.2	8	30118-955	30118-307	30219-138	40304-081
9	399.2	323.8	101.6	120.6	8	30118-956	30118-308	30219-143	40304-082
10	443.7	368.3	101.6	165.1	8	30118-957	30118-309	30219-144	40304-083
Delivery: supplied loose with cabinet or frame									Part no./35

Note

- 19" assembly kit see page 3.17
- Front panel processing to your instructions under www.frontpanelexpress.eu

Cabinet Accessories – Mechanics

Clip-on 19" plastic front panels



00507003



00507004

- Simple fitting by clipping onto the 19" plane
- Attractive design
- Two colors: light gray or black
- 6 U front panels can be snapped off in 1, 2 or 3 U increments without tools

Delivery includes

Item	Qty	Description
1	10	Clip-on 19" plastic front panels, ABS, antistatic, UL 94 V-0

Order Information

Height U	Height mm	Description	Part No.
1	43.6	black	D19BPT1RU
1	43.6	light grey	87927991
2	88.1	black	D19BPT2RU
2	88.1	light grey	87927992
6	270.0	black	23130-560
6	270.0	light grey	23130-561
Delivery: supplied loose with cabinet or frame			Part no./35

Cabinet Accessories – Mechanics

19" vented front panel



- Al anodised, Al untreated, light grey (RAL 7035) or black grey (RAL 7021)

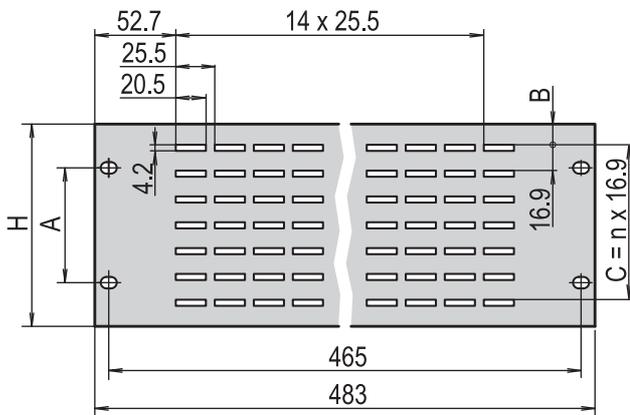
Delivery comprises

Item	Qty	Description
1	1	19" vented front panel, Al, 2.5 mm

Note

- 19" assembly kit see page 3.17

00504005



00502509

Order Information

Height	H	A	B	C	RAL 7021	RAL 7035	Al anodised	Al untreated
U	mm	mm	mm	mm	Part no.	Part no.	Part no.	Part no.
1	43.6	31.7	11.2	16.9	30118-962	30702-056	30702-047	30702-044
2	88.1	76.2	16.6	50.7	30118-963	30702-057	30702-048	30702-045
3	132.5	57.1	13.5	101.4	30118-964	30702-058	30702-049	30702-046

Delivery: supplied loose with cabinet or frame Part no./35

19" vented front grille, 2 U



Delivery comprises (kit)

Item	Qty	Description
1	1	Front grille, plastic, black
2	1	Filter
3	1	Retention bracket, St, 1 mm, hot-dip aluminized

Order Information

Description	Part no.
19" vented front grille, 2 U	60715-049
Accessories	
Replacement filter for 19" vented front grille 2 U, PU 3 pieces	60715-050
Delivery: supplied loose with cabinet or frame	Part no./35

Note

- 19" assembly kit see page 3.17

02892009

Cabinet Accessories – Mechanics

19" front panel for cable eyes



00509001

- 19" front panel to accommodate cable eyes (to mount the eyes, insert and rotate them 45°)

Delivery comprises

Item	Qty	Description
1	1	19" front panel, 1 U, St, 1.5 mm

Order Information

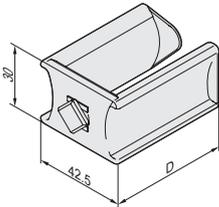
Height H	Height H	RAL 7021	RAL 7035
U	mm	Part no.	Part no.
1	43.6	20118-762	20118-761
Delivery: supplied loose with cabinet or frame			Part no./35

Note

- Please order cable eyes separately
- 19" assembly kit, see page 3.17



00506020



41804050

Plastic cable eyes mounted on 19" front panel

Plastic cable eye

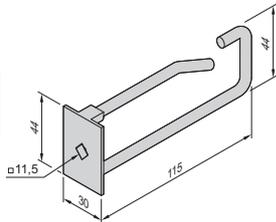
- Simple to fit cable eyes: insert and rotate them 45°

Order Information

Plastic cable eye	Part no.
Depth D = 55 mm, with clip, PU 5 pieces	60118-458
Depth D = 100 mm, with clip, PU 5 pieces	60118-459
Delivery: supplied loose with cabinet or frame	Part no./35



00506019



00506050

Steel cable eyes mounted on 19" front panel

Steel cable eye

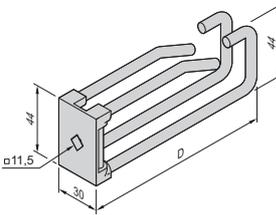
- Simple to fit cable eyes: insert and rotate them 45°

Order Information

Steel cable eye	Part no.
Round steel 5 mm, width 44 mm, depth 115 mm, PU 5 pieces	60118-457
Delivery: supplied loose with cabinet or frame	Part no./35



00509005



00509050

Rubber pad mounted on double steel cable eyes

Double steel cable eye

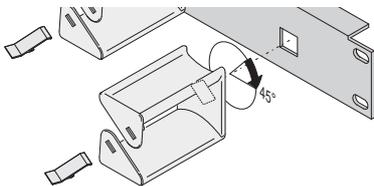
- Simple to fit cable eyes: insert and rotate them 45°

Order Information

Double steel cable eye	Part no.
Round steel 5 mm, width 44 mm, depth D = 80 mm, PU 5 pieces	60118-473
Round steel 5 mm, width 44 mm, depth D = 115 mm, PU 5 pieces	60118-474

Accessories

Rubber pad for double steel cable eye for depth D = 80 mm, PU 5 pieces	60118-475
Rubber pad for double steel cable eye for depth D = 115 mm, PU 5 pieces	60118-476
Delivery: supplied loose with cabinet or frame	Part no./35



41806051

To fix cable eye to front panel: insert and rotate it 45° (example with plastic cable eye)

Cabinet Accessories – Mechanics

19" front panel with cable ducting and cable through ducting



00506016

Delivery comprises

Item	Qty	Description
1	2	19" front panel with integrated cable ducting, St, 1.5 mm, 78 mm deep

Order Information

Height U	Height mm	Description	RAL 7035 Part no.	RAL 7021 Part no.
1	43.6	2 oval cable ducting openings, 150 x 32 mm	20118-757	20118-758
2	88.1	2 oval cable ducting openings, 150 x 76 mm	20118-759	20118-760
Delivery: supplied loose with cabinet or frame			Part no./35	

Note

- 19" assembly kit, see page 3.17

19" cable through ducting

- Mounting height 1 U or 2 U

Delivery comprises

Item	Qty	Description
1	2	19" cable ducting, St, 1.5 mm

Order Information

Height U	Height mm	Description	RAL 7021 Part no.	RAL 7035 Part no.
1	43.6	Cable ducting opening 27.5 x 438 mm	20118-767	20118-734
2	88.1	Cable ducting opening 72.0 x 438 mm	20118-768	20118-736
Delivery: supplied loose with cabinet or frame			Part no./35	

Note

- 19" assembly kit see page 3.17

01696006



Cabinet Accessories – Mechanics

19" cable ducting with brush strip



- Mounting height 1 U
- No threading necessary

Delivery comprises

Item	Qty	Description
1	2	Al extrusion with brush strip (plastic, black), crimped

Order Information

Description	Part no.
19" cable ducting with brush strip	60118-437
Delivery: supplied loose with cabinet or frame	Part no./35

Note

- 19" assembly kit see page 3.17

01604007

19" cable tray, 2 U



- Load-carrying capacity 15 kg
- Installation height 2 U
- Depth adjustable in 25 mm grid increments, forward protrusion min. 91 mm, max. 191 mm

Delivery comprises (Kit)

Item	Qty	Description
1	1	19" cable tray, 2 U, St, 1.5 mm
2	2	Mounting bracket, St, 1.5 mm

Order Information

Width mm	Depth mm	RAL 7021 Part no.	RAL 7035 Part no.
430	450	20118-795	20118-794
Delivery: supplied loose with cabinet or frame			Part no./35

00507001

Note

- 19" assembly kit see page 3.17

Cabinet Accessories – Mechanics

Cable manager, horizontal



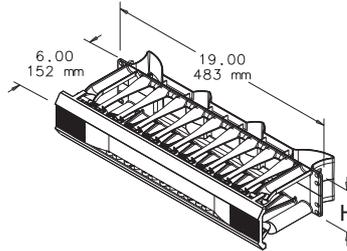
Front

40011010



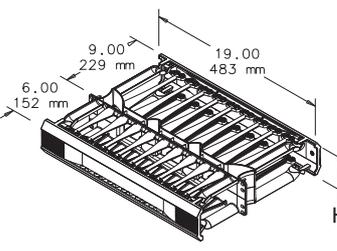
Front and rear

40011006



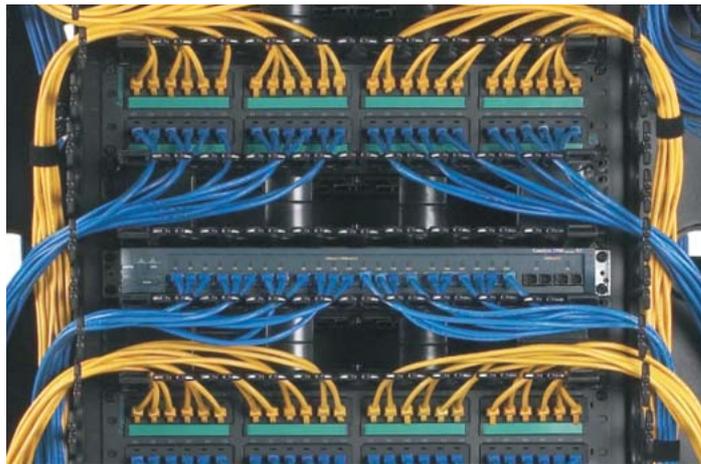
Front

89073653



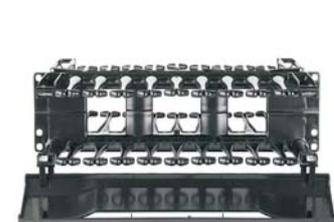
Front and rear

89073654



Application

40011009



Cable manager with hinged cover

40011007



Top view, cable manager with cable fingers front and rear

40011008

- Excellent horizontal cable ducting for large cable volumes
- The cables are held with robust, rounded cable fingers
- Quick access to cables (cover hinges upwards, downwards or comes off completely)
- Simple to fit: clip in then screw down
- 1 and 2 U versions
- Versions for front and rear cable routing
- Optimal cabling from horizontal to vertical

NEW

Delivery comprises

Item	Qty	Description
1	1	Cable manager, plastic, black
2	1	Fitting material with user manual

Order Information

Description	Height H		Width	Depth	Part no.
	U	mm			
Front	1	44,5	483.00	152 mm	DCHS1
Front	2	88,9	483.00	152 mm	DCHS2
Front and rear	2	88,9	483.00	229 mm + 152 mm	DCHD2

Note

- 19" assembly kit see page 3.17

Cabinet Accessories – Mechanics

19" equipment shelf, 1 U



00508007

- Static load-carrying capacity 5 kg
- Mounting height 1 U

Delivery comprises

Item	Qty	Description
1	1	Equipment shelf, St, 1.5 mm

Order Information

Width mm	Depth mm	AlZn Part no.	RAL 7021 Part no.	RAL 7035 Part no.
447	390	20118-781	20118-782	20118-783
Delivery: supplied loose with cabinet or frame				Part no./35

- 19" assembly kit, see page 3.17

19" equipment shelf, 2 U



00508003

- Static load-carrying capacity 10 kg
- Mounting height 2 U

Delivery comprises

Item	Qty	Description
1	1	Equipment shelf, St, 1.5 mm

Order Information

Width mm	Depth mm	RAL 7021 Part no.	RAL 7035 Part no.
447	238	20118-784	20118-785
Delivery: supplied loose with cabinet or frame			Part no./35

- 19" assembly kit, see page 3.17

19" equipment shelf, depth-adjustable, 2 U



00508010

- Static load-carrying capacity 15 kg
- Installation height 2 U
- Depth adjustable in 25 mm grid increments, forward protrusion min. 26 mm

Delivery comprises (kit)

Item	Qty	Description
1	1	Equipment shelf, St, 1.5 mm
2	2	Mounting bracket with assembly kit, St, 1.5 mm

Order Information

Width mm	Depth mm	RAL 7021 Part no.	RAL 7035 Part no.
430	250	20118-786	
430	300	20118-787	20118-790
430	400	20118-788	20118-791
Delivery: supplied loose with cabinet or frame			Part no./35

- 19" assembly kit, see page 3.17

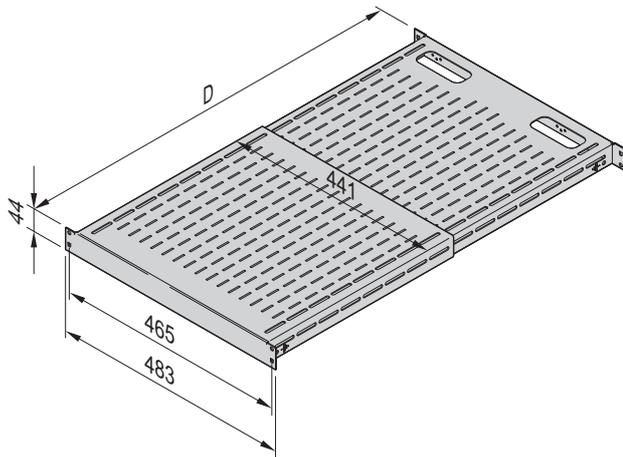
Cabinet Accessories – Mechanics

19" shelf, stationary, depth-adjustable, 1 U



Shelf with variable mounting dimensions

40011016



89073664

- Static load-carrying capacity 68 kg
- Mounting height 1 U
- For mounting on four 19" posts or four 19" panel/slide mounts
- Variable mounting dimensions (depth-adjustable from 19" angle to 19" angle)
- 2 versions
 - Mounting dimensions 495 ... 851 mm
 - Mounting dimensions 792 ... 1151 mm
- 2 oval cut-outs for cable ducting
- Colour black, RAL 9005

NEW

Delivery comprises

Item	Qty	Description
1	1	Shelf, depth-adjustable, width 19", RAL 9005 (black); shelf is suspended on 19" upright or 19" panel/slide mount
2	1	Fitting material with user manual

Order Information

19" shelf, stationary, depth-adjustable, 1 U	Part no.
Mounting dimensions D 495 ... 851 mm	D19FVT69B
Mounting dimensions D 792 ... 1151 mm	D19FVT912B

Note

- 19" assembly kit see page 3.17

Cabinet Accessories – Mechanics

19" drawer



- Height 1, 2 or 3 U
- Static load-carrying capacity 15 kg
- Optional writing surface

Delivery comprises (assembled)

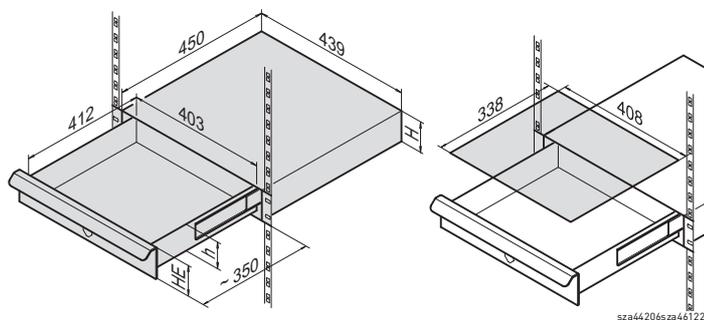
Item	Qty	Description
1	1	19" drawer with lock (2 keys)
1	2	Assembly kit

Order Information

U	Height		Front panel	Front panel	Front panel
	mm	mm	anodised	RAL 7021	RAL 7035
			Part no.	Part no.	Part no.
1	41.6	30	20110-061	20110-180	20110-054
2	86.0	73	20110-062	20110-181	20110-055
3	130.5	117	20110-063	20110-182	20110-056

Accessories

Writing surface for 19" drawer	St, 1 mm, RAL 7035, 1 piece	20110-060
Delivery: supplied loose with cabinet or frame		Part no./35



19" drawer

Writing surface

19" keyboard drawer, 2 U



- For keyboards up to 425 mm width, 210 mm depth, 45 mm height
- IP 40 when closed

Delivery comprises

Item	Qty	Description
1	1	Keyboard drawer with hinged front panel, Al, anodised (incl. locking)
2	2	Telescopic slide, St, zinc-plated
3	1	Keyboard chassis, St, 2.5 mm, RAL 7030
4	2	Front horizontal rail, Al extrusion, anodised

Order Information

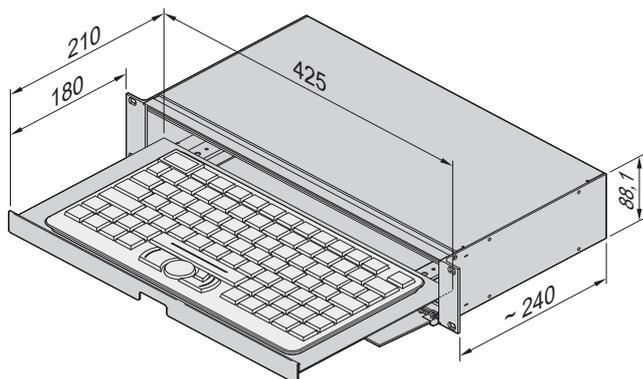
Description	Part no.
19" keyboard drawer, 2 U	10822-009

Accessories

Lock for 19" keyboard drawer	1 × lock incl. 2 keys	60126-118
Delivery: supplied loose with cabinet or frame		Part no./35

Note

- Without keyboard
- 19" assembly kit, see page 3.17



Cabinet Accessories – Mechanics

19" distribution field, Cat 6



01604002

Distribution field Cat 6

- 1 U distribution field with 24 x RJ45 ports
- For use in communications networks, in accordance with ISO/IEC 11801 (as at 03/95)
- Meets the specifications for EN 50 173 (as at 07/95)
- Easy to fit thanks to dual insulation displacement technique (LSA+/110)
- Case can be opened and closed without tools, with quick-release fastener

Delivery comprises (assembled)

Item	Qty	Description
1	1	19" case, shielded, St, RAL 7035, 1 U, with earthing stud
2	3	Backplanes with 8 x dual insulation displacement technique for AWG 22--24 cables and 8 x RJ45 sockets
3	24	Cable ties

Order Information

Description	Part no.
19" distribution field, Cat 6	60118-435
Delivery: supplied loose with cabinet or frame	Part no./35

Note

- 19" assembly kit see page 3.17

Document pocket



00506004 00506005

Steel, DIN A4

Plastic, DIN A4

- For storage of documents and circuit diagrams
- Assembly with double sided adhesive tape

Delivery comprises

Item	Qty	Description
1	1	Document pocket
2	1	Adhesive tape

Order Information

Description	Dimensions H x W x D mm	Part no.
Steel, DIN A4, RAL 7035	180 x 336 x 34	21126-271
Plastic, DIN A4, grey	195 x 356 x 21	60100-302
Plastic, DIN A3, grey	305 x 305 x 25	ADP2
Delivery: supplied loose with cabinet or frame		Part no./35

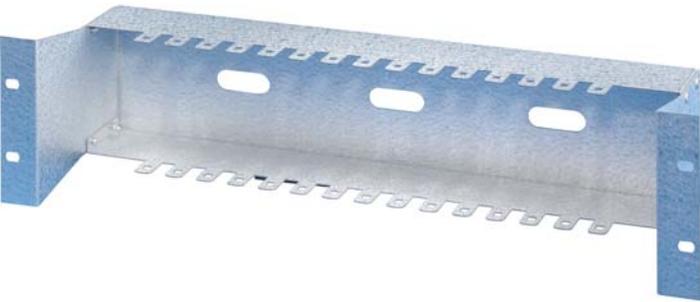


00506006

Plastic, DIN A3

Cabinet Accessories – Mechanics

19" mounting tray for LSA+



00506008

19" mounting tray for LSA+

- Mounting height 3 U
- For retention of up to 15 LSA+ guide rails

Delivery comprises (kit)

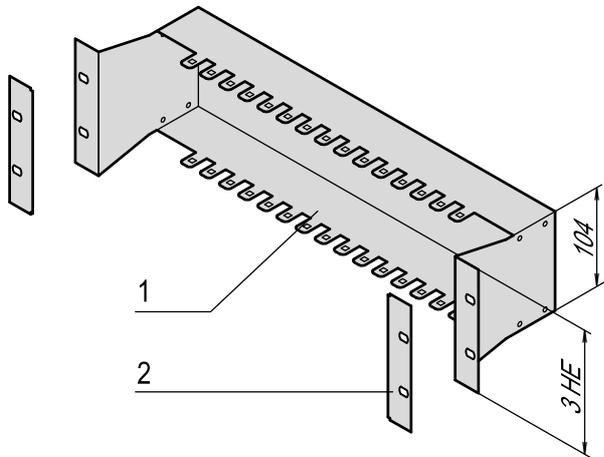
Item	Qty	Description
1	1	19" mounting tray, St, 1.5 mm, finish AlZn
2	2	Flange cover, Al, anodised

Order Information

Description	Part no.
19" mounting tray for LSA+	21493-079
Delivery: supplied loose with cabinet or frame	Part no./35

Note

- 19" assembly kit see page 3.17



VTA45668

19" mounting bracket



00506007

19" mounting bracket

- Mounting height 1 U
- For fixing cable channels and system rails (e.g. LSA+ or Infra+)
- Mounting plane set back by optionally 70 or 170 mm relative to the 19" plane

Delivery comprises

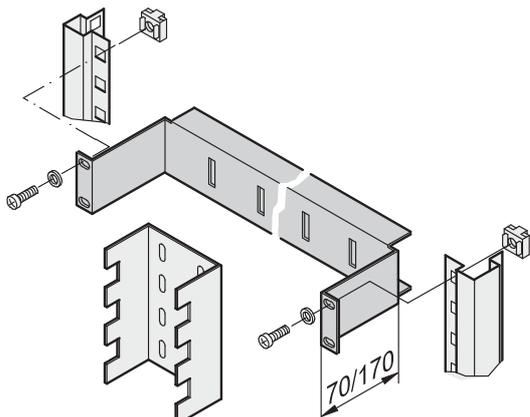
Item	Qty	Description
1	1	19" mounting bracket, St, 1.5 mm, RAL 7035

Order Information

Description	Depth mm	Part no.
19" mounting bracket	70	30118-802
19" mounting bracket	170	30118-803
Delivery: supplied loose with cabinet or frame		Part no./35

Note

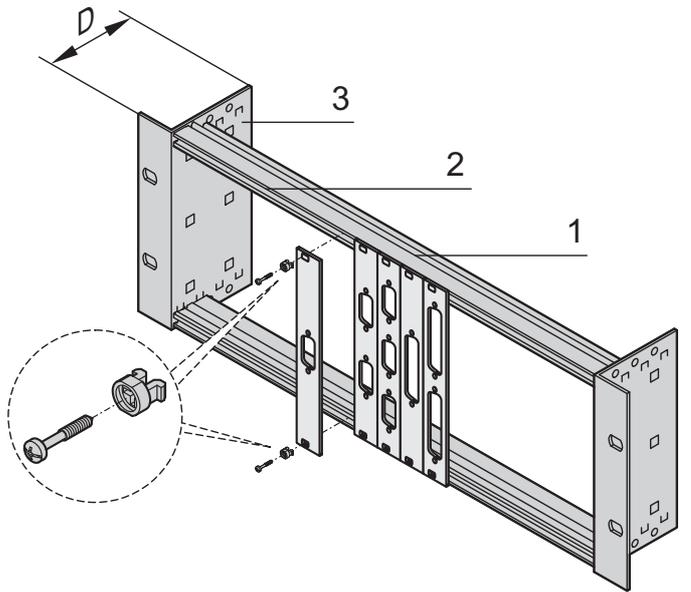
- 19" assembly kit see page 3.17



SC30

Cabinet Accessories – Mechanics

19" module support, 3 U



- For assembly of partial width front panels with SUB-D-, ST type 3 or FDDI cut-outs
- Available in two versions
 - without strain relief rail
 - with strain relief rail
- Optional front panels, Al, 2.5 mm, RAL 7035

Delivery comprises (kit)

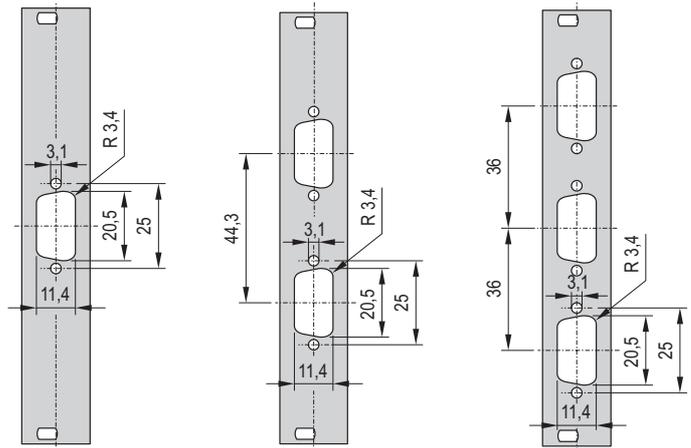
Item	Qty	Description
1	1	19" module support, 3 U, Al
2	2	Threaded inserts with thread M2.5
3	2	Gland plate, St, 1 mm, RAL 7035
4	1	Strain relief rail, St, 1.5 mm, RAL 7035 (only for version with strain relief)
5	1	Assembly kit

Order Information

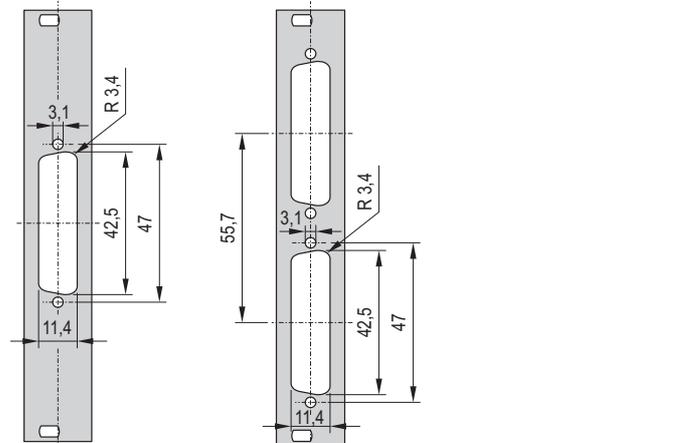
Description	Height U	Depth D mm	Part no.
19" module support without strain relief	3	40	20118-630
19" module support with strain relief	3	115	20118-631

Accessories

Front panel 3 U, 4 HP, 1 piece	30118-328
Front panel 3 U, 7 HP, 1 piece	30118-329
Front panel 3 U, 14 HP, 1 piece	30118-330
Front panel 3 U, 28 HP, 1 piece	30118-331
Front panel Sub-D 9-pin 3 U, 4 HP, cut-out 1 x 9-pin, 1 piece	30118-338
Front panel Sub-D 9-pin 3 U, 4 HP, cut-out 2 x 9-pin, 1 piece	30118-336
Front panel Sub-D 9-pin 3 U, 4 HP, cut-out 3 x 9-pin, 1 piece	30118-332
Front panel Sub-D 25-pin 3 U, 4 HP, cut-out 1 x 25-pin, 1 piece	30118-334
Front panel Sub-D 25-pin 3 U, 4 HP, cut-out 2 x 25-pin, 1 piece	30118-335
Quick release fastener for front panel assembly, PU 100 pieces	21100-586
Delivery: supplied loose with cabinet or frame	Part no./35



Front panel Sub-D 9-pin



Front panel Sub-D 25-pin

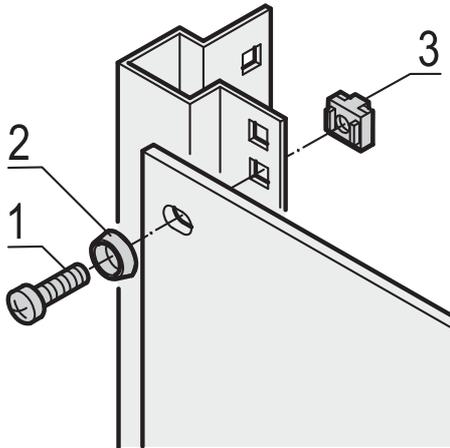
Note

- Please order front panels or quick-release fastener separately
- 19" assembly kit, see page 3.17
- Front panel processing to your instructions under www.frontpanelexpress.eu

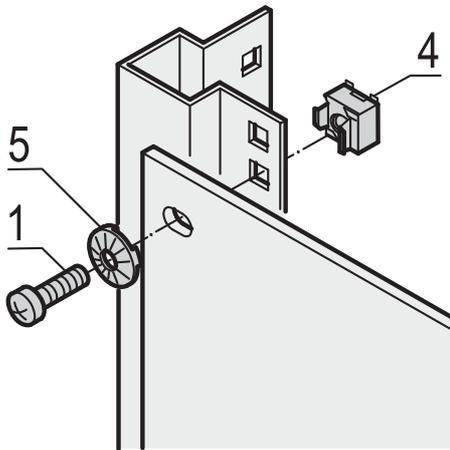
FRONT PANEL
EXPRESS

Cabinet Accessories – Mechanics

19" assembly kit M6



Without GND/earthing



With GND/earthing

- For mounting of front panels, distribution fields or other components on the frame, slide mounts or depth members with square cut-outs
- For standard GND/earthing use a GND/earthing nut and a nomel washer on at least one attachment point

Delivery comprises

Item	Description
1	Panhead screw, M6 x 16, St, zinc-plated
2	Plastic washer, black
3	Cage nut, M6, St, zinc-plated
4	GND/earthing cage nut, M6, St, zinc-plated
5	Nomel washer, St, zinc-plated, internal diameter 6.1 mm, external diameter 12.2 mm

Order Information

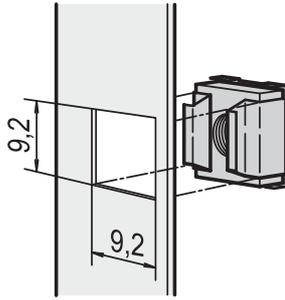
Item	Description	Qty/PU	Part no.
1+2+3	19" assembly kit (screw, washer, nut)	4	21190-095
1+2+3	19" assembly kit (screw, washer, nut)	32	21190-435
1+2+3	19" assembly kit (screw, washer, nut)	50	21101-809
1+2+3	19" assembly kit (screw, washer, nut)	100	21101-810
1	Panhead screw M6, zinc-plated	50	21100-021
1	Panhead screw M6, zinc-plated	100	21100-022
1	Panhead screw M6, zinc-plated, black	100	21100-650
2	Plastic washer	50	21100-015
2	Plastic washer	100	21100-016
3	Cage nut M6	50	21100-003
3	Cage nut M6	100	21100-004
4	GND/earthing cage nut M6	10	21120-131
4	GND/earthing cage nut M6	100	21120-132
5	Nomel washer for GND/earthing, M6	100	21101-173
Delivery: supplied loose with cabinet or frame			Part no./35

sc128

00504053

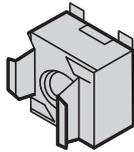
Cabinet Accessories – Mechanics

Cage nut M4/M5



Cage nut

bza42733



GND/earthing cage nut

00503050



Nomel washer

00502512

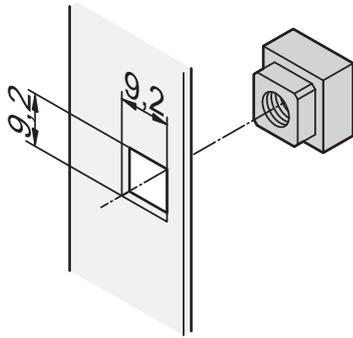
- For assembly of special parts (in square holes), which require a thread diameter of M4 or M5
- For standard GND/earthing use a GND/earthing nut and a nomel washer on at least one attachment point

Order Information

Description	Description	Qty/PU	Part no.
Cage nut M4	St, zinc-plated, for material thickness of 1.8 to 2.6 mm	50	21100-001
Cage nut M4	St, zinc-plated, for material thickness of 1.8 to 2.6 mm	100	21100-002
GND/earthing cage nut M4	St, zinc-plated, for material thickness 1.8 to 2.6 mm	10	21120-127
GND/earthing cage nut M4	St, zinc-plated, for material thickness 1.8 to 2.6 mm	100	21120-128
Nomel washer M4 for GND/earthing	St, zinc-plated, inner diameter 4.1 mm, external diameter 8 mm	100	21120-148
Cage nut M5	St, zinc-plated, for material thickness of 1.8 to 2.6 mm	50	21100-215
Cage nut M5	St, zinc-plated, for material thickness of 1.8 to 2.6 mm	100	21100-216
GND/earthing cage nut M5	St, zinc-plated, for material thickness 1.8 to 2.6 mm	10	21120-129
GND/earthing cage nut M5	St, zinc-plated, for material thickness 1.8 to 2.6 mm	100	21120-130
Nomel washer M5 for GND/earthing	St, zinc-plated, inner diameter 5.1 mm, external diameter 10.2 mm	100	21120-149
Delivery: supplied loose with cabinet or frame			Part no./35

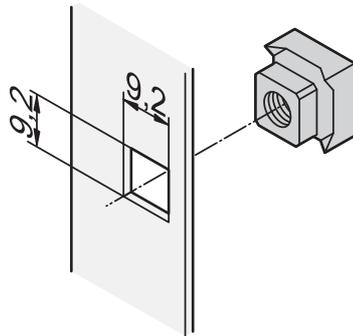
Cabinet Accessories – Mechanics

Square nut M6



Square nut

bza42735



Square GND/earthing nut

0670451

- For precise, anti-twist secure mounting without clearance
- For standard GND/earthing use a square GND/earthing nut and a nomel washer on at least one attachment point

Order Information

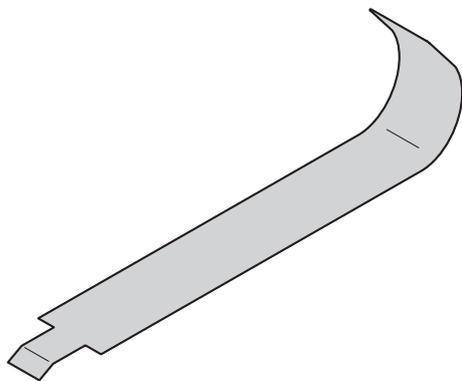
Description	Description	Qty/PU	Part no.
Square nut M6	St, zinc-plated, for material thickness of 3.7 mm	50	21100-558
Square nut M6	St, zinc-plated, for material thickness of 3.7 mm	100	21101-007
Square GND/earthing nut M6	St, zinc-plated, for material thickness of 1.5 mm	50	21101-172
Square GND/earthing nut M6	St, zinc-plated, for material thickness of 3.5 mm	50	21101-171
Nomel washer for GND/earthing, M6	St, zinc-plated, inner diameter 6.1 mm, external diameter 12.2 mm	100	21101-173
Delivery: supplied loose with cabinet or frame			Part no./35

Mounting aid for cage nuts

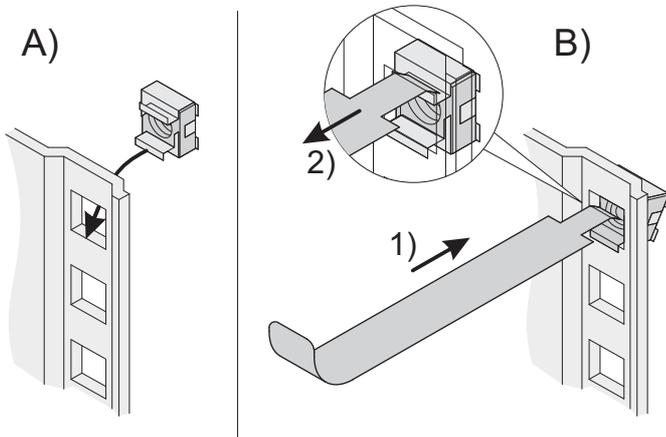
- To fit/remove cage nuts

Order Information

Description	Qty/PU	Part no.
Mounting aid for cage nuts	1	21127-990
Delivery: supplied loose with cabinet or frame		Part no./35



0670857



0670856

Cabinet Accessories – Mechanics

Sandwich cable clamping for C profiles



01695039

- Cable ducting in up to 5 planes
- For cable diameter of 4 ... 7 mm, usable width 190 mm

Delivery comprises (Kit)

Item	Qty	Description
1	6	Pressure plate, 15 x 250 mm, St, 2.5 mm, chromated and zinc-plated, bolt spacing 200 mm
2	10	Rubber strip
3	10	Spacer M6 for cable diameter of 4 ... 7 mm
4	1	Assembly kit

Order Information

Description	Part no.
Sandwich cable clamping for C profiles	20118-740
Delivery: supplied loose with cabinet or frame	Part no./35

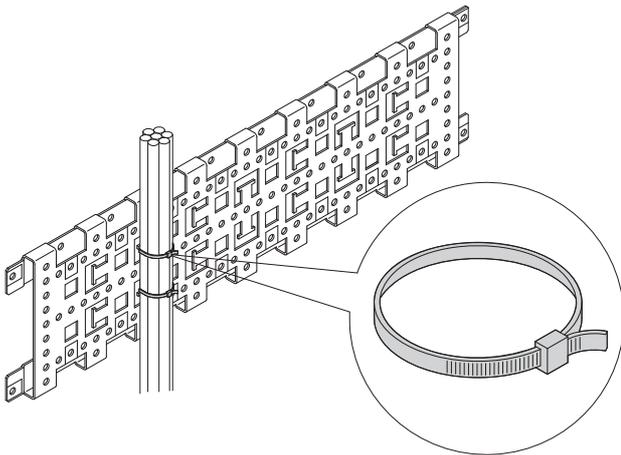
Cable ties

Delivery comprises

Item	Qty	Description
1	25	Cable tie, plastic

Order Information

Description		Part no.
Cable ties	186 mm x 5 mm	20118-352
Cable ties	360 mm x 5 mm	20118-353
Cable ties	92 mm x 2.5 mm	20118-351
Delivery: supplied loose with cabinet or frame		Part no./35



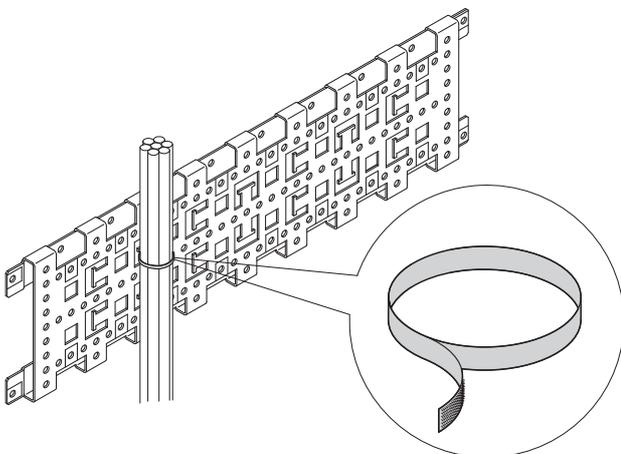
01005078

Velcro

- Length 300 mm (for cable bundles of max. 90 mm diameter)

Order Information

Description	Part no.
Velcro strip, Polyethylen/Polyamide, black, length 300 mm, PU 10 pieces	20118-624
Delivery: supplied loose with cabinet or frame	Part no./35



01005079

Cabinet Accessories – Mechanics

Cable support



Cable support with return spring

00592015

- For cable support on pull-out devices and chassis
- Cable fixing with cable ties
- 2 versions:
 - Cable support **with** return spring for a uniform cabling matched to the extraction movements
 - Cable support **without** return spring, connected directly to pull-out part

Order Information

Description	Qty/PU	Part no.
Cable support with return spring	1	20118-729
Cable support without return spring	1	20118-706
Accessories		
Cable ties 92 mm x 2.5 mm, PU 25 pieces		20118-351
Delivery: supplied loose with cabinet or frame		Part no./35

Technical data

	Cable support with return spring	Cable support without return spring
Load-carrying capacity	2 kg	5 kg
Extension length	730 mm	720 mm
Space requirement in retracted position	25 mm	25 mm
Material	St, square tube, 16 mm ² , zinc-plated	St profile, 1 mm, zinc-plated

Note

- 19" assembly kit see page 3.17



Cable support without return spring

00592016

Cable channel

- For cable ducting in lateral and rear cabinet areas
- For mounting on cabinet uprights, depth members or C-profiles

Delivery comprises

Item	Qty	Description
1	1	Cable channel, 2 m, plastic, grey

Order Information

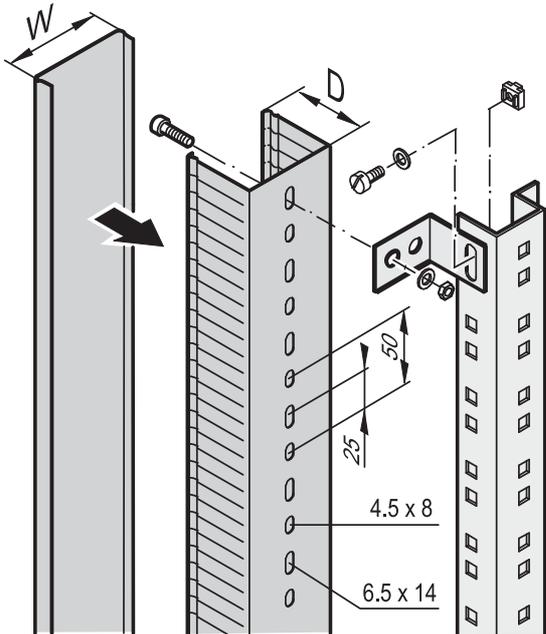
Depth D mm	Width W mm	Length mm	Part no.
60	30	2000	60103-011
60	60	2000	60103-010

Accessories

Assembly kit for cable channel (4 brackets, screws, washers, nuts, cage nuts)	21100-123
Delivery: supplied loose with cabinet or frame	
Part no./35	

Note

- Please order assembly kit for cable channel separately



SC78

Cabinet Accessories – Mechanics

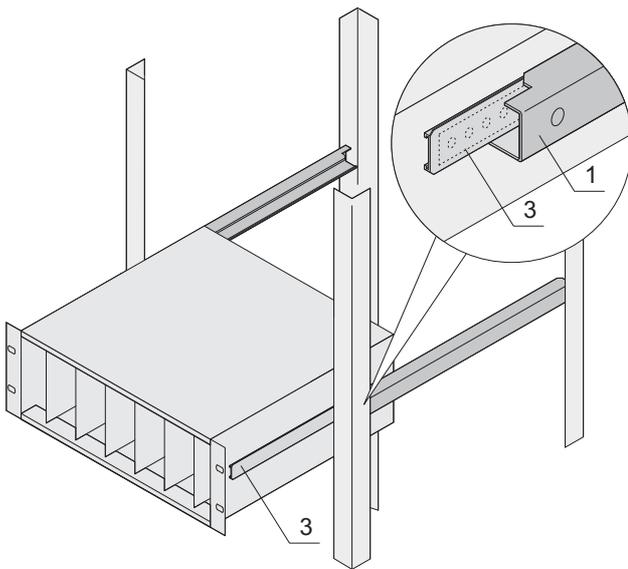
Simple telescopic slide for assembly of subracks in cabinets



06101006

- 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

Telescopic slides with guiding profile for fitting in cabinets



06108072

Delivery comprises (kit)

Item	Qty	Description
1	2	C-profile, Al
2	1	Assembly kit

Order Information

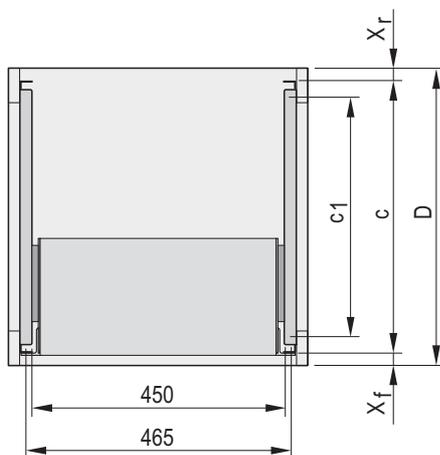
For cabinet range	Depth D mm	x_f mm	x_r mm	C mm	c1 mm	Part no.
VARISTAR	600	50	50	500	369	24562-464
VARISTAR	800	50	50	700	569	24562-466
VARISTAR	900	50	50	800	669	24562-467
VARISTAR	1000	50	50	900	769	24562-468
VARISTAR	1100	50	50	1000	869	24562-472
VARISTAR	1200	50	50	1100	969	24562-473
eurorack	600	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

Delivery: supplied loose with cabinet or frame

Part no./35

Note

- Adapter rail see page 3.23

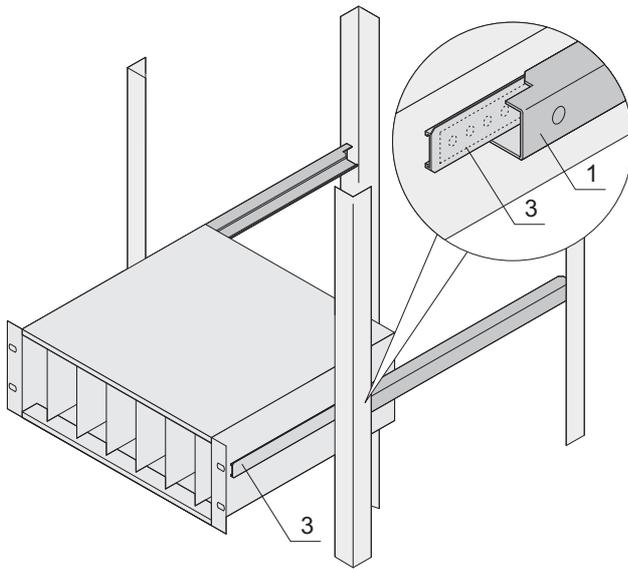


06108062

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

Cabinet Accessories – Mechanics

Telescopic slides with adaptor rail for subracks



- The rail serves for fixing the subrack on the guiding profile when mounted into a cabinet

Delivery comprises (kit)

Item	Qty	Description
3	2	Al extrusion, incl. M4 threaded insert
4	1	Assembly kit

Order Information

For subrack depth mm	Part no.
175	24562-453
235	24562-454
295	24562-455
355	24562-456
415	24562-457
475	24562-458
Delivery: supplied loose with cabinet or frame	Part no./35

Note

- Suitable guiding profile see page 3.22

06109072

Measuring tape



- Measuring tape with cm, U-, HP-division (length 2 m)
- Plastic case, metal tape measure with automatic retraction

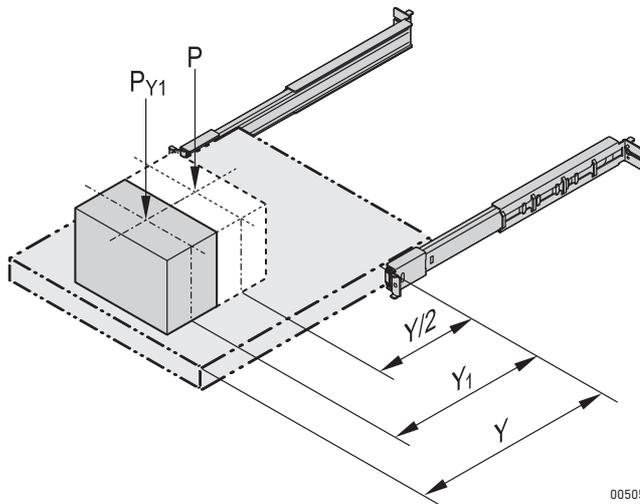
Order Information

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

32506001

Cabinet Accessories – Telescopic slides

Dimensioning of telescopic slides



00505053

Calculation of the load-carrying capacity

The stated load-carrying capacity P is valid provided that the centre of gravity is in the centre of the extraction ($Y/2$). For a different position of the centre of gravity (Y_1) please use the following formula:

$$\text{Load-carrying capacity } P(Y_1) = \frac{1}{2} P Y / Y_1 \text{ (but max. } P)$$

Example:

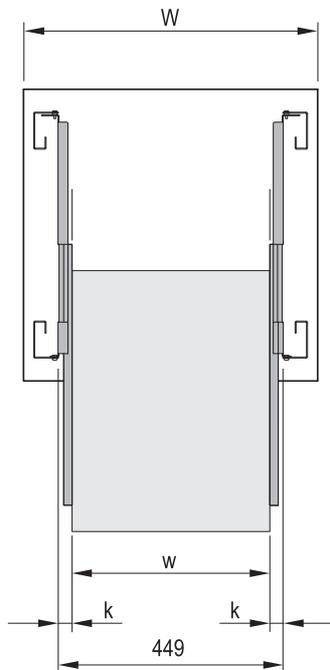
Load-carrying capacity $P = 45 \text{ kg}$,

Extension length $Y = 250 \text{ mm}$

Position of centre of gravity $Y_1 = 150 \text{ mm}$

Result:

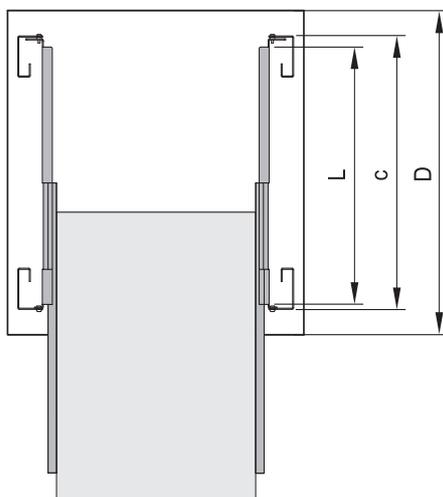
$$P(Y_1) = \frac{1}{2} P Y / Y_1 = \frac{1}{2} \times 45 \text{ kg} \times 250 / 150 = 37.5 \text{ kg}$$



00505060

Calculation of the maximum installation width (w)

For each telescopic slide the maximum installation width (w) for one shelf or drawer is given. This is the maximum clearance available between the telescopic slides when they are fitted in a 19" cabinet.



00505061

Mounting on 19" panel/slide mounts

In 19" cabinets, telescopic slides are mounted on the front and rear 19" panel/slide mounts.

The length (L) must therefore be matched with the distance between the 19" brackets (depthwise). For this the required 19" pitch (c) is given for each cabinet.

Cabinet Accessories – Telescopic slides

Telescopic slide, narrow, for subrack



- Suitable for 84 HP width subracks (type F, type H, type L)
- Locks at full extension
- Hinged
- Extension length > 100 %
- Rail width 7.5 mm
- Maximum clear width of extension/drawer w = 84 HP (435 mm)

NEW

Delivery includes

Item	Qty	Description
1	2	Telescopic slide, St, zinc-plated

Order Information

Length L	Extension length Y	Load-carrying capacity P	Part no.
mm	mm	kg	
356	See table Technical data	15	60110-441
559	See table Technical data	15	60110-440

Accessories

Fixing materials kit for Varistar, to mount 2 telescopic slides, PU 1 kit **21120-193**

Fixing materials kit for Novastar, to mount 2 telescopic slides, PU 1 kit **21120-194**

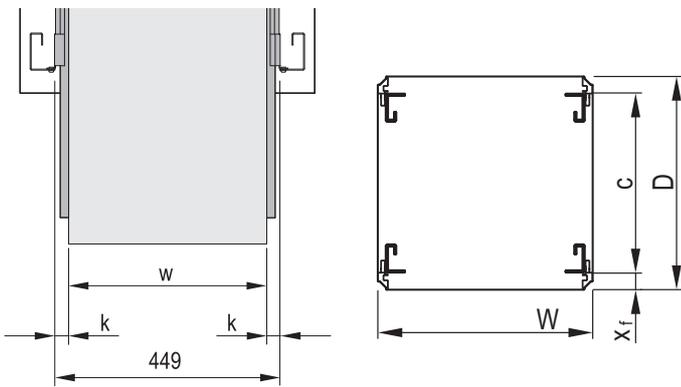
Delivery: supplied loose with cabinet or frame **Part no./35**

Technical data

Length L	Extension length Y		
	Varistar SL/HD	Novastar SL	Novastar HD
mm	mm	mm	mm
356	350	362	352
559	553	565	555

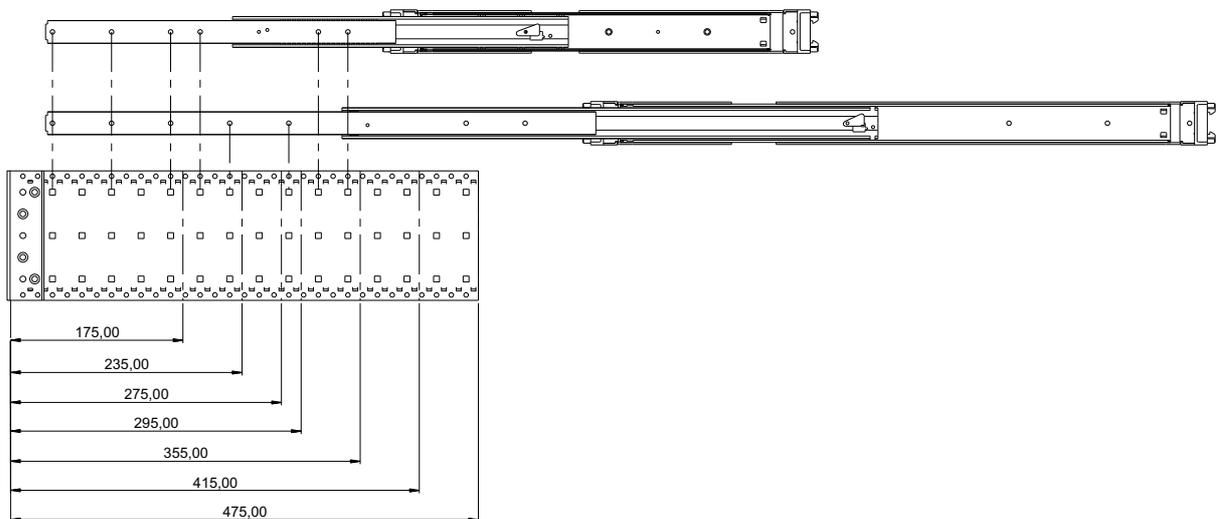
Note

- To mount on 19" plane please order assembly kit separately



k = rail width 7.5 mm,
w = max. installation width
84 HP (435 mm)

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



Screw-on position for telescopic slide on side panel of subrack

00515050

Cabinet Accessories – Telescopic slides

Universal telescopic slide, 1 U



- Static load-carrying capacity per pair 23 - 39 kg
- Lateral mounting on the 19" uprights (19" plane remains free for fixing the extension/drawer)
- Can be removed
- Extension length > 100 %
- Rail width $k = 9.7$ mm, max. installation width of extension/drawer $w = 429$ mm

Delivery comprises

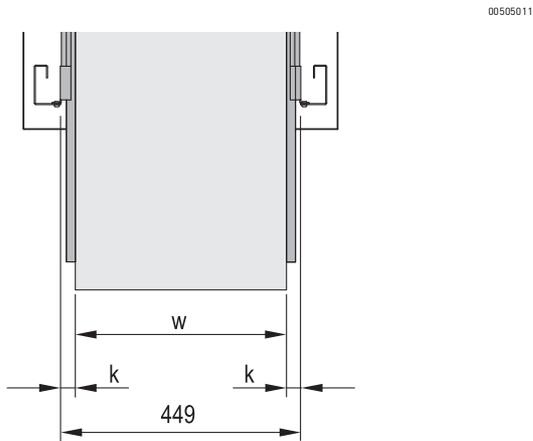
Item	Qty	Description
1	2	Telescopic slide, St, zinc-plated

Order Information

Length L	Extension length Y	Load-carrying capacity P	Part no.
mm	mm	kg	
356	381	39	20110-090
406	432	36	20110-091
457	483	34	20110-092
508	533	32	20110-093
559	584	29	20110-094
610	635	27	20110-095
660	686	23	20110-096
711	737	23	20110-097

Accessories

Assembly kit For VARISTAR, for assembly of 2 telescopic slides, PU 1 kit	21120-158
Assembly kit For eurorack, for assembly of 2 telescopic slides, PU 1 kit	21120-159
Assembly kit for NOVASTAR, to mount 2 telescopic slides, PU 1 kit	21120-160
Delivery: supplied loose with cabinet or frame	Part no./35



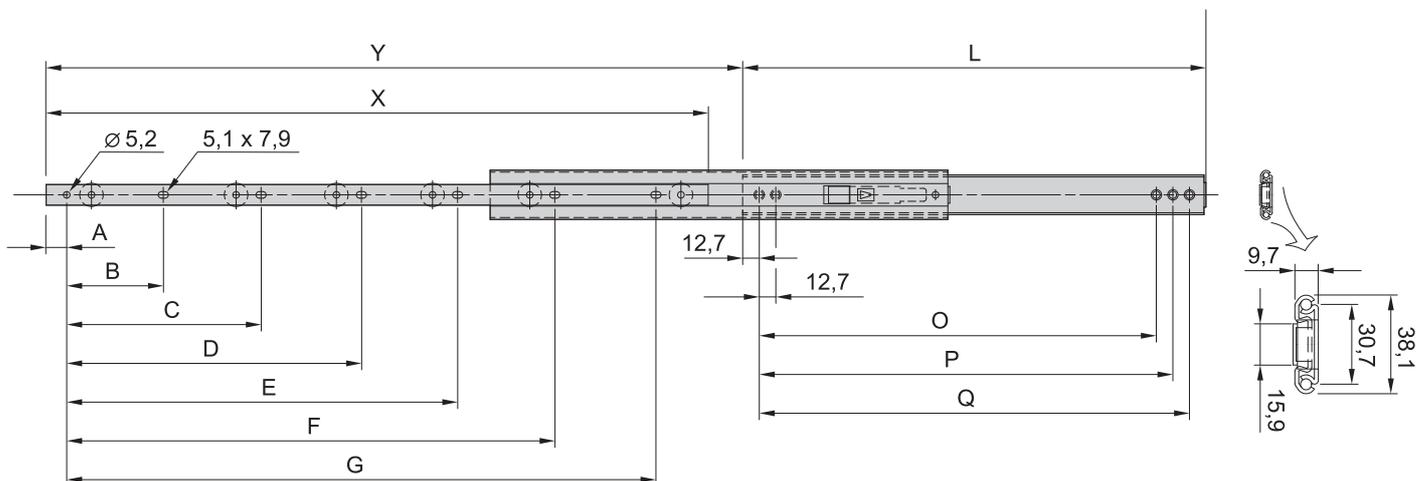
k = rail width, w = max. installation width

Dimensions table

L	Internal part									External part		
	A	B	C	D	E	F	G	X	O	P	Q	
356	29.5	92.1	184.2	276.2	-	-	-	349.3	304.6	317.3	330.0	
406	29.5	92.1	184.2	276.2	-	-	-	349.3	355.4	368.1	380.8	
457	29.5	92.1	184.2	276.2	-	-	-	349.3	406.4	419.1	431.8	
508	89.9	92.1	184.2	276.2	368.3	-	-	501.7	457.4	470.1	482.8	
559	89.9	92.1	184.2	276.2	368.3	-	-	501.7	508.1	520.8	533.5	
610	89.9	92.1	184.2	276.2	368.3	-	-	501.7	558.6	571.3	584.0	
660	7.4	92.1	184.2	276.2	368.3	460.4	552.4	603.3	609.4	622.1	634.8	
711	7.4	92.1	184.2	276.2	368.3	460.4	552.4	603.3	660.2	672.9	685.6	

Note

- To mount on 19" plane please order assembly kit separately
- Universal telescopic rails can also be fitted without additional components in non-standard applications, thus also in other than 19" cabinets



Cabinet Accessories – Telescopic slides

Universal telescopic slide, 2 U



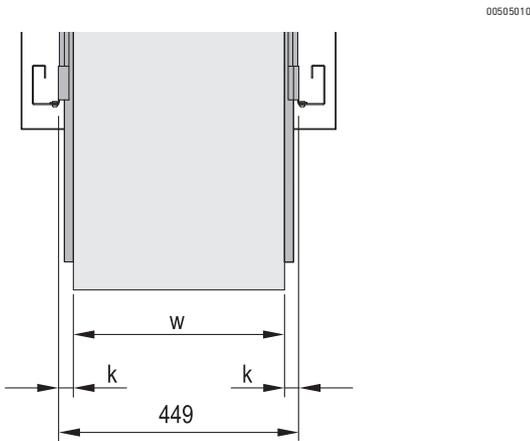
- Static load-carrying capacity per pair 46 - 61 kg
- Lateral mounting on the 19" uprights (19" plane remains free for fixing the extension/drawer)
- Locking at full extension
- Extension length > 100 %
- Rail width k = 16 mm, max. installation width of extension/drawer w = 417 mm

Delivery comprises

Item	Qty	Description
1	2	Telescopic slide, St, zinc-plated

Order Information

Length L	Extension length Y	Load-carrying capacity P	Part no.
mm	mm	kg	
305	330	61	20110-100
356	381	60	20110-101
406	432	58	20110-102
457	483	57	20110-103
508	533	55	20110-104
559	584	52	20110-105
610	635	50	20110-106
660	686	48	20110-107
711	737	46	20110-108



k = rail width, w = max. installation width

Dimensions table

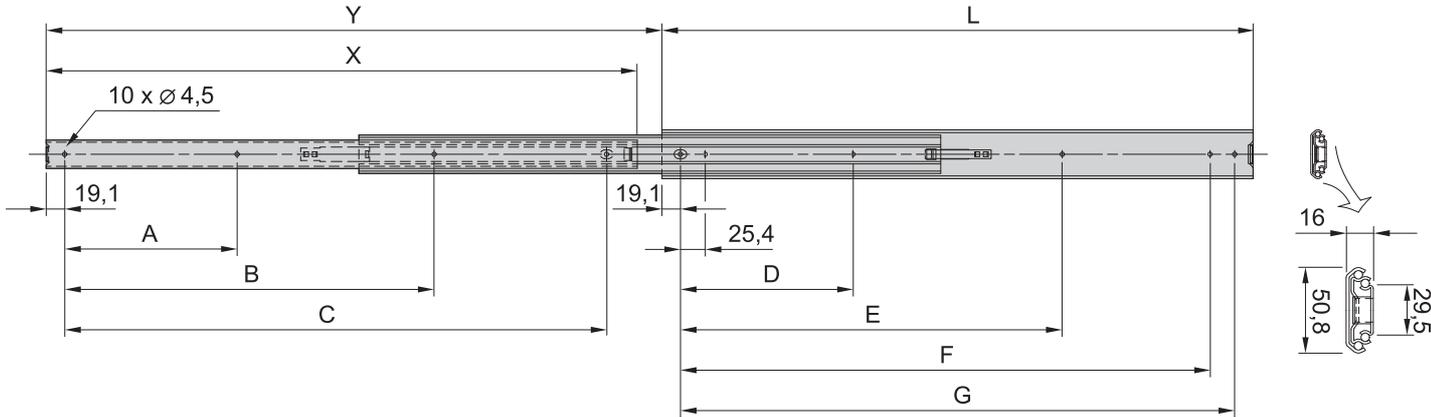
Length L	Internal part				External part			
	A	B	C	X	D	E	F	G
305	76.2	177.8	254.0	305.0	76.2	190.5	241.3	266.7
356	101.6	203.2	304.8	356.0	88.9	215.9	292.1	317.5
406	127.0	228.6	355.6	406.0	127.0	241.3	342.9	368.3
457	127.0	279.4	406.4	457.0	127.0	292.1	393.7	419.1
508	152.4	304.8	457.2	508.0	152.4	317.5	444.5	469.9
559	177.8	330.2	508.0	559.0	177.8	342.9	495.3	520.7
610	177.8	381.0	558.8	610.0	177.8	393.7	546.1	571.5
660	203.2	406.4	609.6	660.0	203.2	419.1	596.9	622.3
711	228.6	431.8	660.4	711.0	228.6	444.5	647.7	673.1

Accessories

Assembly kit For VARISTAR, for assembly of 2 telescopic slides, PU 1 kit	21120-158
Assembly kit For eurorack, for assembly of 2 telescopic slides, PU 1 kit	21120-159
Assembly kit for NOVASTAR, to mount 2 telescopic slides, PU 1 kit	21120-160
Delivery: supplied loose with cabinet or frame	Part no./35

Note

- To mount on 19" plane please order assembly kit separately
- Universal telescopic rails can also be fitted without additional components in non-standard applications, thus also in other than 19" cabinets



Cabinet Accessories – Telescopic slides

Slim universal telescopic slide, 2 U



- Static load-carrying capacity per pair 46 - 57 kg
- Lateral mounting on the 19" uprights (19" plane remains free for fixing the extension/drawer)
- Locking at full extension
- Extension length > 110 %
- Rail width $k = 9.7$ mm, max. installation width of extension/drawer $w = 429$ mm

Delivery comprises

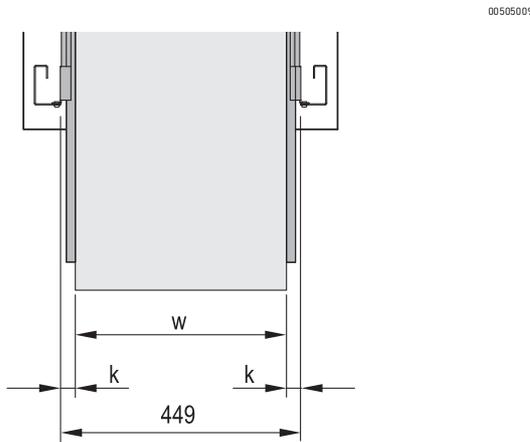
Item	Qty	Description
1	2	Telescopic slide, St, zinc-plated

Order Information

Length L	Extension length Y	Load-carrying capacity P	Part no.
mm	mm	kg	
356	432	57	20110-071
406	483	55	20110-072
457	533	55	20110-073
508	584	55	20110-074
559	635	46	20110-075
584	660	46	20110-076
610	686	46	20110-077

Accessories

Assembly kit for VARISTAR , for assembly of 2 telescopic slides, PU 1 kit	21120-161
Assembly kit for eurorack , for assembly of 2 telescopic slides, PU 1 kit	21120-162
Telescopic slides mounting kit for NOVASTAR , to mount 2 telescopic slides, PU 1 kit	21120-163
Delivery: supplied loose with cabinet or frame	Part no./35



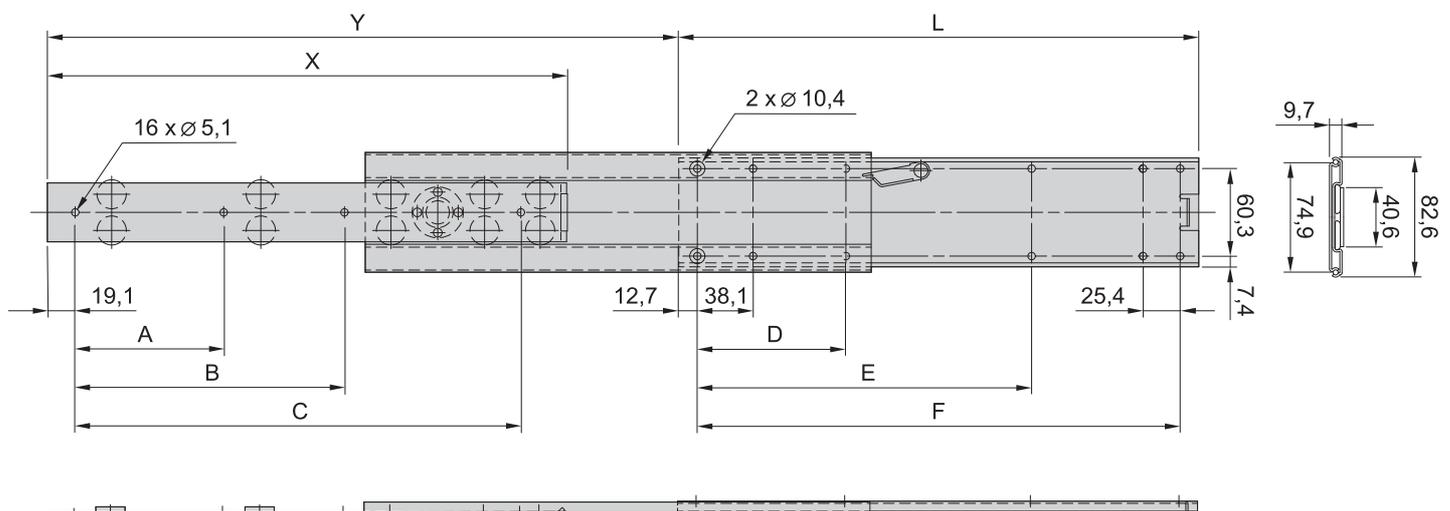
k = rail width, w = max. installation width

Dimensions table

Length L	Internal part				External part		
	A	w	C	X	D	E	F
356	101.6	184.2	304.8	356.0	101.6	228.6	330.2
406	127.0	209.6	355.6	406.0	127.0	254.0	381.0
457	127.0	235.0	406.4	457.0	152.4	279.4	431.8
508	152.4	260.4	457.2	508.0	152.4	330.2	482.6
559	203.2	412.8	508.0	559.0	177.8	355.6	533.4
584	203.2	431.8	533.4	584.0	177.8	381.0	558.8
610	203.2	438.2	558.8	610.0	203.2	381.0	584.2

Note

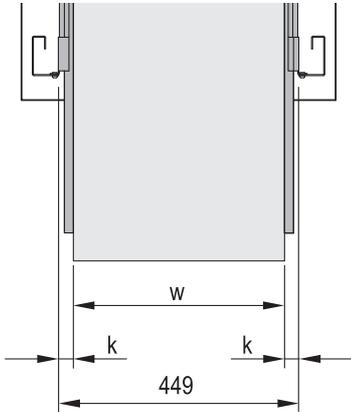
- To mount on 19" plane please order assembly kit separately
- Universal telescopic rails can also be fitted without additional components in non-standard applications, thus also in other than 19" cabinets



Cabinet Accessories – Telescopic slides

Heavy load universal telescopic slide, 2 U

- Static load-carrying capacity per pair 72 - 100 kg
- Lateral mounting on the 19" uprights (19" plane remains free for fixing the extension/drawer)
- End stop damped
- Extension length > 100 %
- Rail width k = 19.1 mm, max. installation width of extension/drawer w = 411 mm



k = rail width, w = max. installation width

Delivery comprises

Item	Qty	Description
1	2	Telescopic slide, St, zinc-plated

Order Information

Length L	Extension length Y	Load-carrying capacity P	Part no.
mm	mm	kg	
300	473	77	20110-190
350	573	83	20110-191
400	423	88	20110-192
450	473	94	20110-193
500	523	100	20110-194
550	573	94	20110-195
600	623	88	20110-196
700	723	72	20110-198

Accessories

Assembly kit for VARISTAR , for assembly of 2 telescopic slides, PU 1 kit	21120-164
Assembly kit for eurorack , for assembly of 2 telescopic slides, PU 1 kit	21120-165
Assembly kit for NOVASTAR , to mount 2 telescopic slides, PU 1 kit	21120-166
Delivery: supplied loose with cabinet or frame	Part no./35

Dimensions table

Length L	Y	Inner part (mm)			External part (mm)			
		A	B	X	C	E	F	G
300	473.5	-	-	300	192	224	-	-
350	573.5	-	-	350	224	256	-	-
400	423,5	128	160	400	288	320	160	192
450	473.5	128	160	450	320	352	160	192
500	523,5	160	192	500	384	416	192	224
550	573.5	160	192	550	416	448	192	224
600	623,5	192	256	600	480	512	256	288
650	673.5	192	256	650	544	576	256	288
700	723,5	256	288	700	576	608	288	320

Note

- To mount on 19" plane please order assembly kit separately
- Universal telescopic rails can also be fitted without additional components in non-standard applications, thus also in other than 19" cabinets

