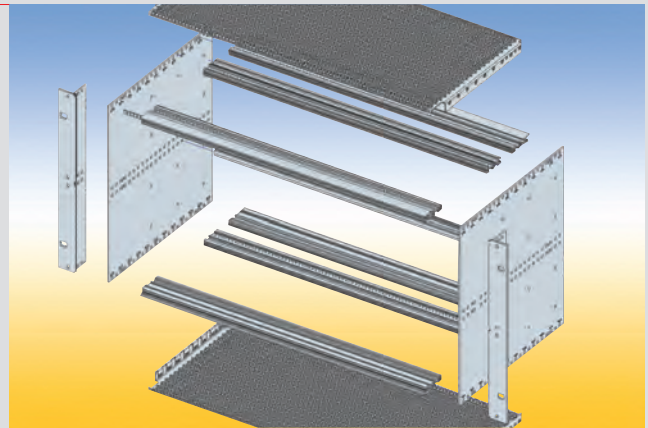


Subrack Accessories

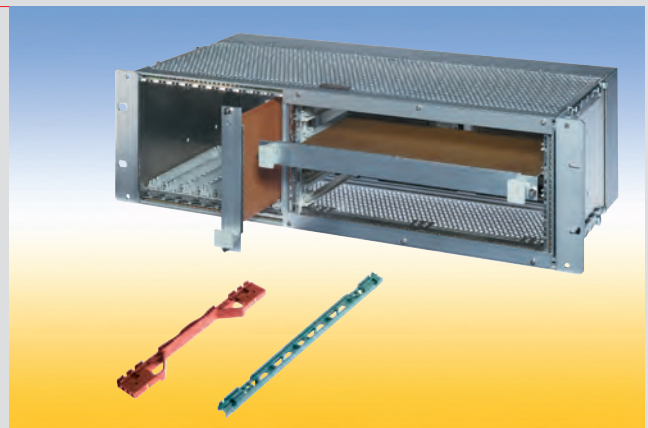
Single Parts

- ✓ Side Panels
- ✓ Flanges
- ✓ Closing Profiles
- ✓ Handle
- ✓ Side Panel Extender
- ✓ Side Panel Connector
- ✓ Horizontal Rails
- ✓ Cover Plates
- ✓ Rear Covers



Configurations

- ✓ Subrack Divider
- ✓ Partition Wall
- ✓ Labelling Rail, Locking Rail, Label Strip
- ✓ Threaded Strips
- ✓ Z-Rail A, Mounting Rail B
- ✓ Card Guide and Accessories

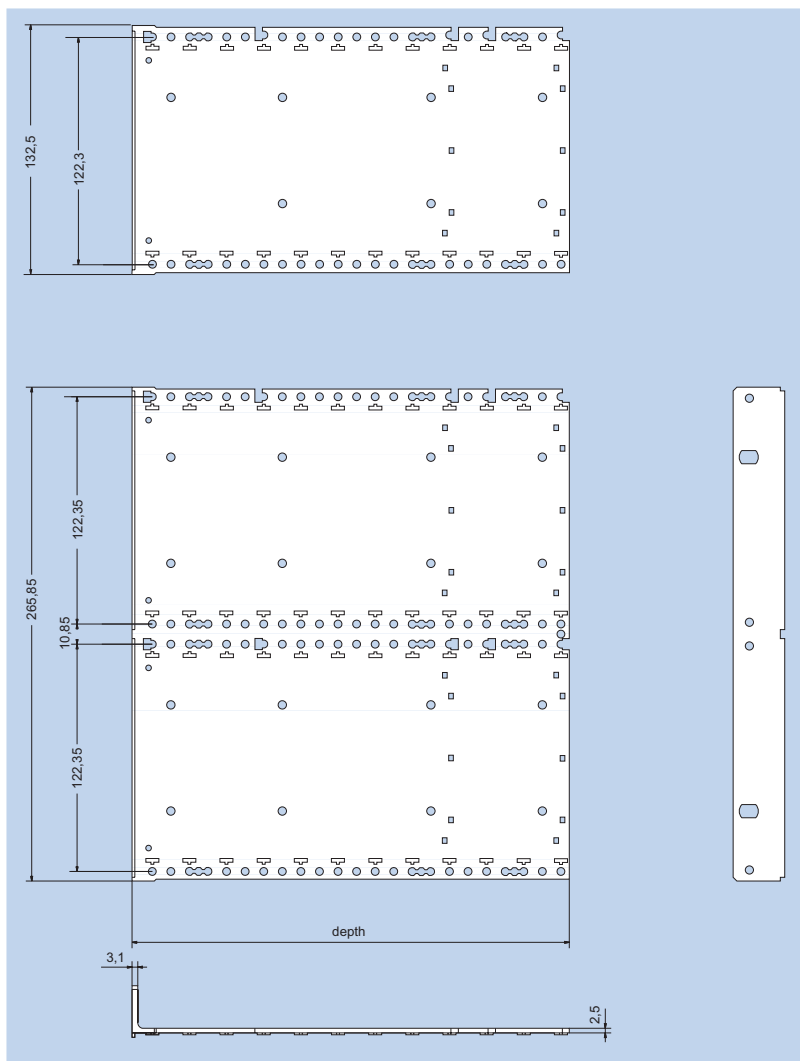


Front Panels and Handles

- ✓ Blind Front Panels
- ✓ Front Panels with Handle
- ✓ Front Panels with Ejector Handle
- ✓ Front Panels with IEEE-Handle
- ✓ Plastic Front Panels



Side Panel Fi



for subrack **FLEXIBLE Fi** and **InterRail** (not for **InterRail SNCF**)

Side Panel Fi (flange integrated)

The side panel and the flange are extruded in one piece.

Material: aluminum, extruded
Finish: colorless anodized or passivated

Side Panel Fi TOX (flange clinched)

Side panel made of aluminum sheet is connected to the extruded flange RFI by clinching (toxen®). There is one TOX® point per height unit (U).

Finish: flange passivated / side panel blank, seawater resistant

Ordering details

	nom. height [U]	nom. depth [mm]	depth [mm]	anodized order no. 409	passivated order no. 409	passivated/blank order no. 409
Side panel Fi - 3 - 160	3	160	175.4	085001	110248	-
Side panel Fi - 3 - 220	3	220	235.4	085002	110234	-
Side panel Fi TOX - 3 - 280	3	280	295.4	-	-	182910
Side panel Fi - 6 - 160	6	160	175.4	085095	110201	-
Side panel Fi - 6 - 220	6	220	235.4	085096	110238	-
Side panel Fi TOX - 6 - 280	6	280	295.4	-	-	182911

Accessories

Hexagonal cupped point head screw M 4 x 16, Torx T 20

For assembly of the side panel to the horizontal rails.

Minimumm order quantity 100 pieces

order no.: 409052156

Accessories

Self tapping hexagonal cupped point head screw M 4 x 16, Torx T 20

For assembly of the side panel to the horizontal rails.

Minimumm order quantity 100 pieces

order no.: 409087639

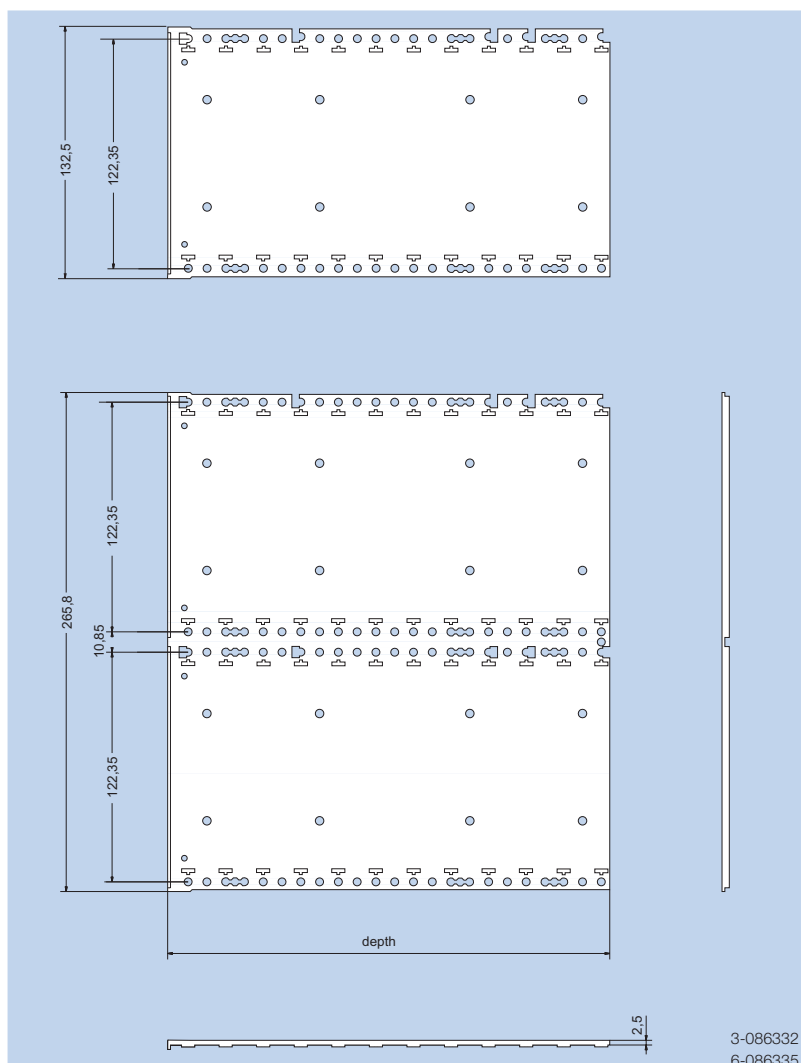
Side Panel Fs

for subrack *FLEXIBLE Fs*

Side Panel Fs (flange seperate)

Material: aluminum, extruded

Finish: passivated



3-086332
6-086335

Ordering details

	nom. height [U]	nom. depth [mm]	depth [mm]	order no. 409
Side panel Fs - 3 - 160	3	160	174.2	106750
Side panel Fs - 3 - 220	3	220	234.2	086333
Side panel Fs - 3 - 280	3	280	294.2	086334
Side panel Fs - 6 - 160	6	160	174.2	097286
Side panel Fs - 6 - 220	6	220	234.2	086336
Side panel Fs - 6 - 280	6	280	294.2	086337

Accessories

Hexagonal cupped point head screw M 4 x 16, Torx T 20

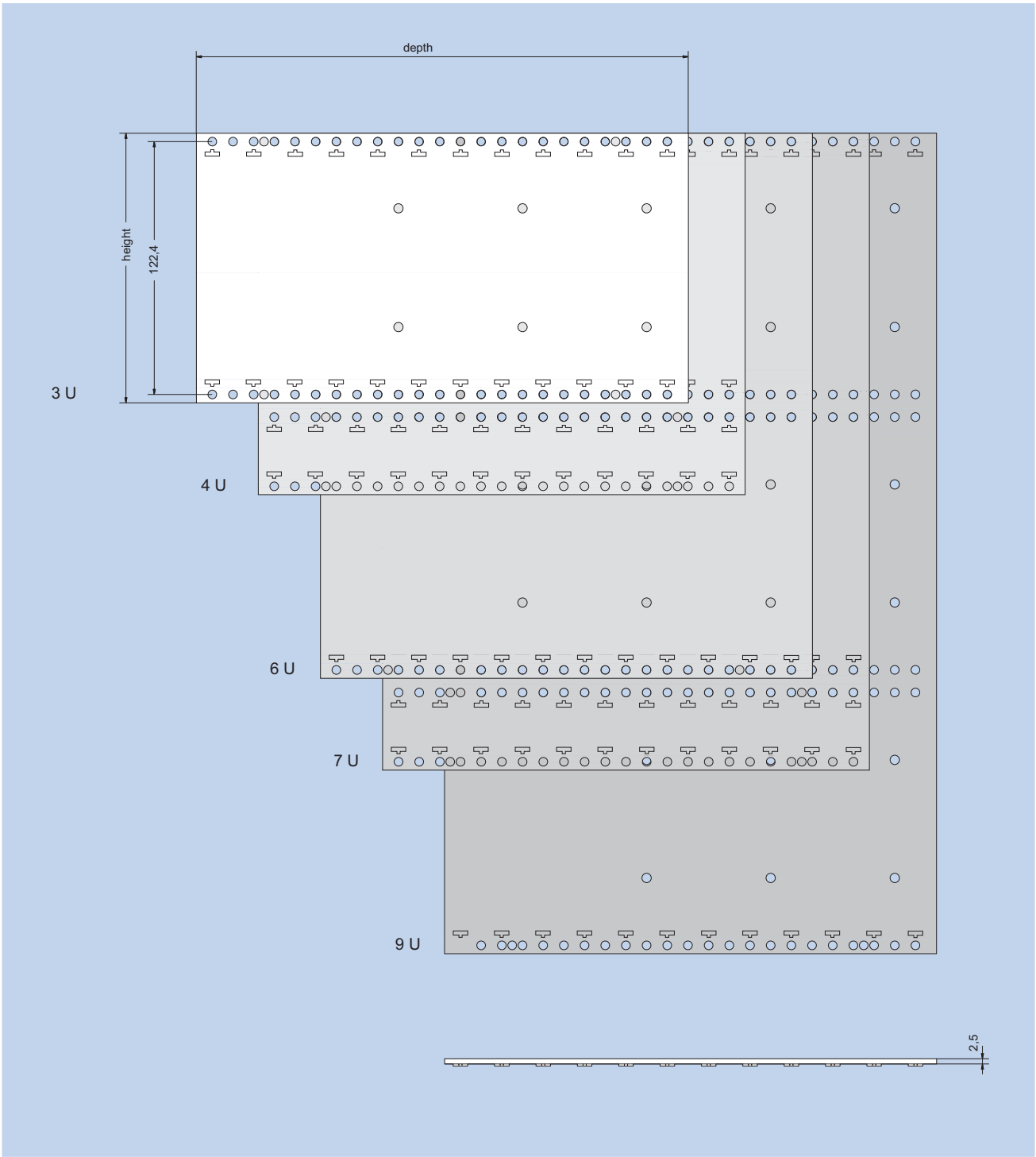
For assembly of the side panel to the horizontal rails.

Minimum order quantity 100 pieces

order no.: 409052156

Side Panel RFI without Flange

Subrack Accessories



Side Panel RFI without Flange

for subrack *RFI-SHIELDED*

Side Panel RFI without flange

Material: aluminum, 2.5 mm thick

Finish: blank, seawater resistant

Ordering details

	nom. height [U]	height [mm]	nom. depth [mm]	depth [mm]	order no. 409
Side panel RFI - 3 - 160	3	130.50	160	177.9	114240
Side panel RFI - 3 - 220	3	130.50	220	237.9	114241
Side panel RFI - 3 - 240	3	130.50	240	257.9	161173
Side panel RFI - 3 - 260	3	130.50	260	277.9	161174
Side panel RFI - 3 - 280	3	130.50	280	297.9	114242
Side panel RFI - 3 - 340	3	130.50	340	357.9	114243
Side panel RFI - 4 - 280	4	174.95	280	297.9	112872
Side panel RFI - 4 - 460	4	174.95	460	477.9	112876
Side panel RFI - 6 - 160	6	263.85	160	177.9	114758
Side panel RFI - 6 - 220	6	263.85	220	237.9	114759
Side panel RFI - 6 - 240	6	263.85	240	257.9	161188
Side panel RFI - 6 - 260	6	263.85	260	277.9	161189
Side panel RFI - 6 - 280	6	263.85	280	297.9	114760
Side panel RFI - 6 - 340	6	263.85	340	357.9	114762
Side panel RFI - 6 - 460	6	263.85	460	477.9	114766
Side panel RFI - 7 - 240	7	308.30	240	257.9	161193
Side panel RFI - 9 - 220	9	397.20	220	237.9	161155
Side panel RFI - 9 - 280	9	397.20	280	297.9	161156
Side panel RFI - 9 - 340	9	397.20	340	357.9	161157
Side panel RFI - 9 - 460	9	397.20	460	477.9	161160

Accessories

	order no. 409
For assembly of the side panel to the pr Minimum order quantity 100 pieces	
Hexagon cupped point head screw M 4 x 16 Torx T 20	052156
For assembly of the middle pro led rail by using an outside xed cover plate. Minimum order quantity 10 pieces	
Hexagon head screw	116769

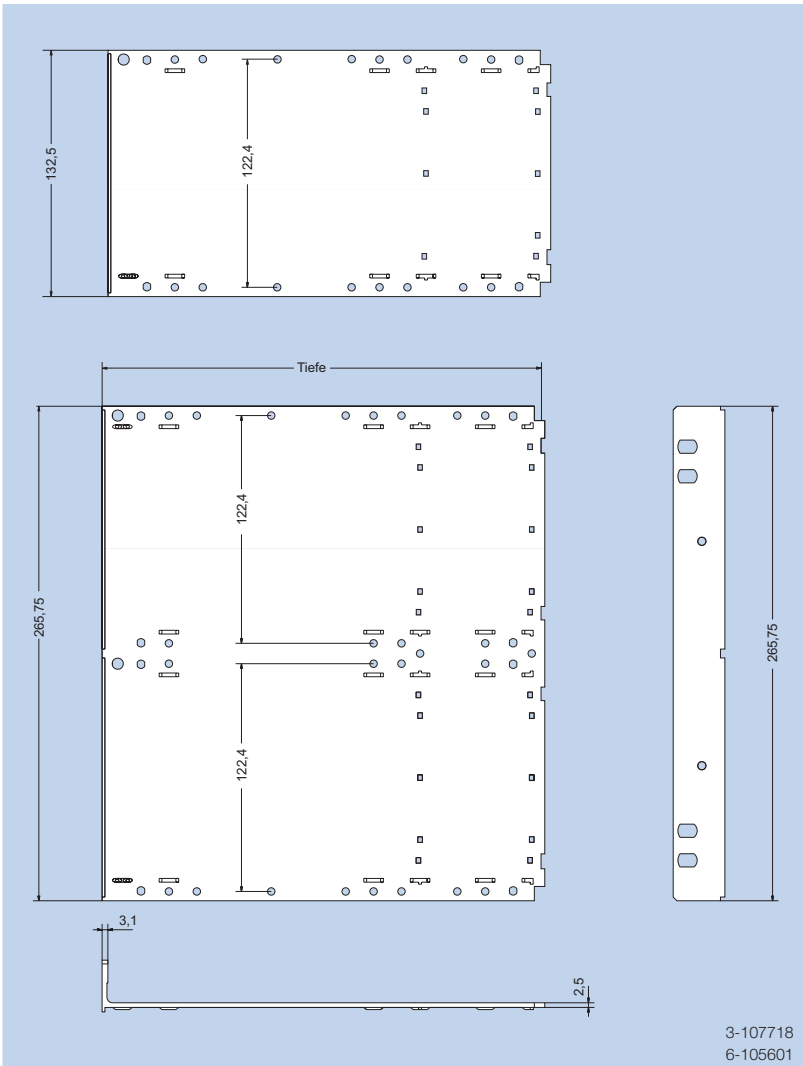
Side Panel *InterRail*® SNCF

for subrack *InterRail* SNCF

Side Panel *InterRail* SNCF

Material: aluminum, extruded
Finish: passivated

Subrack Accessories



Ordering details

	nom. height [U]	nom. depth [mm]	depth [mm]	order no.
Side panel <i>InterRail</i> - SNCF - 3 - 220	3	220	237.9	107719
Side panel <i>InterRail</i> - SNCF - 6 - 220	6	220	237.9	105602

Accessories

Self tapping hexagonal cupped point head screw M 4 x 16, Torx T 20

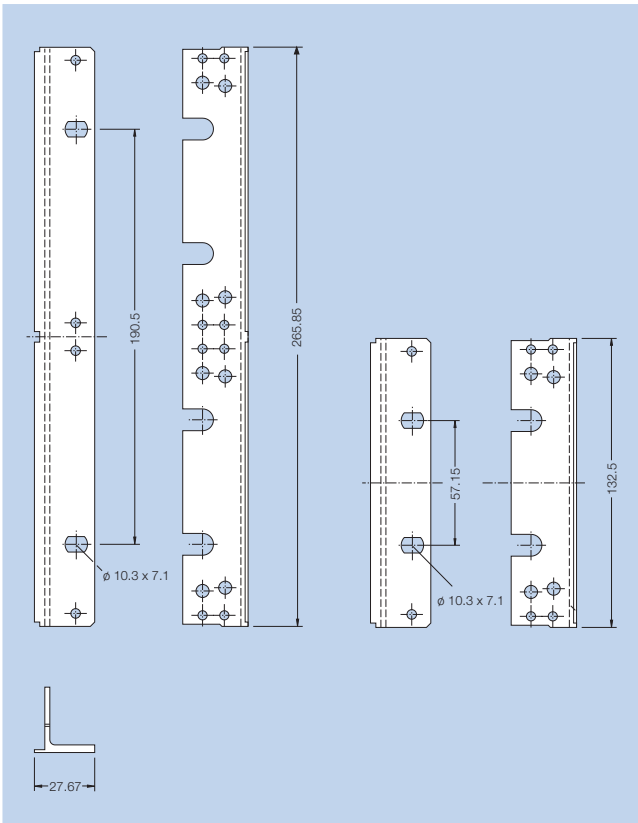
For assembly of the side panel to the horizontal rails.

Minimum order quantity 100 pieces

order no.: **409087639**

Flange F

Flange without Nose



for subrack *FLEXIBLE Fs*

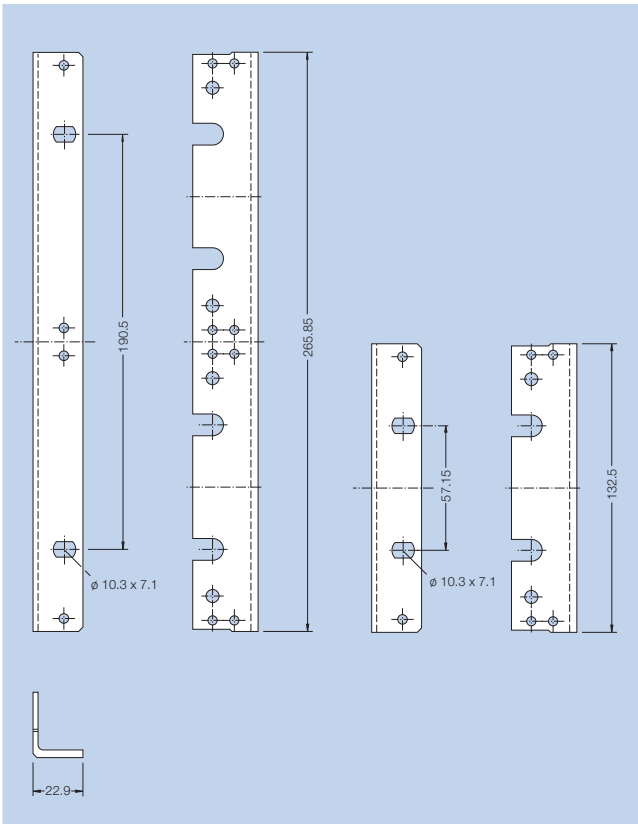
Flange F

The flange can be mounted to the side panel by means of the mounting screws for the horizontal rails.

Material: aluminum, extruded
Finish: anodized

Ordering details

	order no. 409
Flange F - 3 U	086787
Flange F - 6 U	086791



Flange without Nose

This flange can be mounted at various depth on the side panel grid.

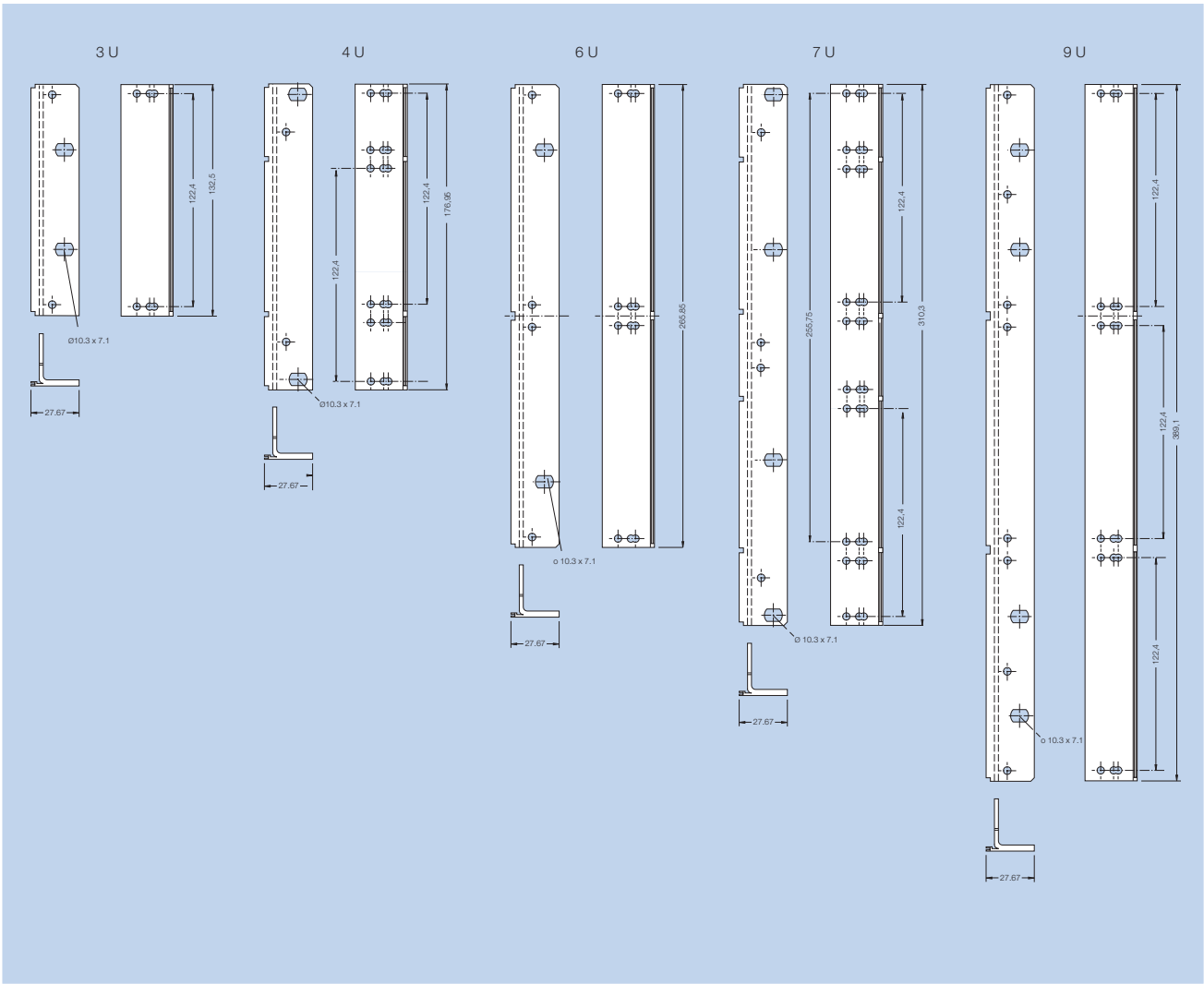
Material: aluminum, extruded
Finish: anodized

Ordering details

	order no. 409
Flange without nose - 3 U	087802
Flange without nose - 6 U	087824

Flange RFI

Subrack Accessories



for subrack **RFI-SHIELDED**

Flange RFI

The flange can be mounted to the side panel by means of the mounting screws for the horizontal rails. With slits in the side edges for insertion of RFI springs.

Material: aluminum, extruded
Finish: passivated

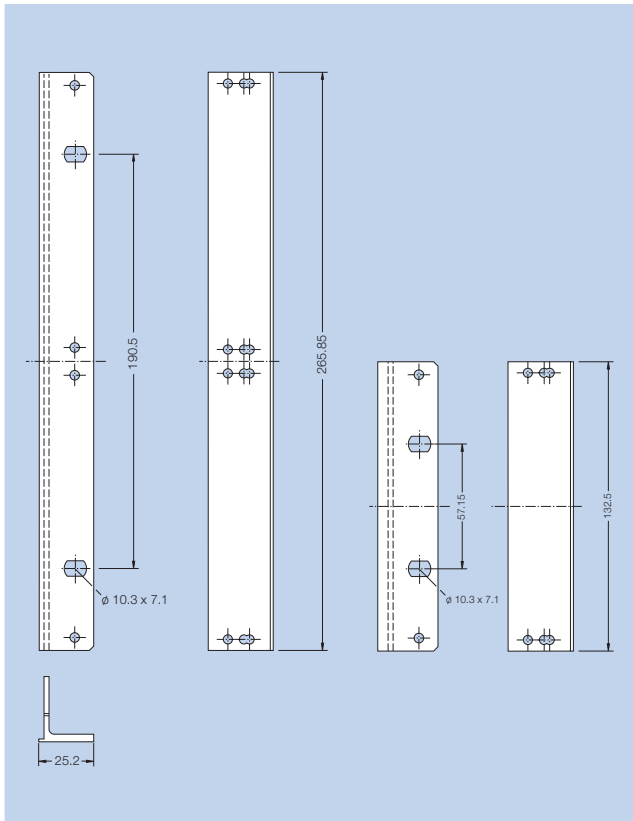
Ordering details

	nom. height [U]	order no. 409
Flange RFI - 3	3	112202
Flange RFI - 4	4	114612
Flange RFI - 6	6	112205
Flange RFI - 7	7	114618
Flange RFI - 9	9	112234

Accessories

	order no. 409
RFI-spring F3 - 2 U	112386
RFI-spring F3 - 3 U	111636
RFI-spring F3 - 4 U	112387
RFI-spring F3 - 6 U	111637

Flange RFI - FP, Flange for Wall Mounting



Flange RFI - FP

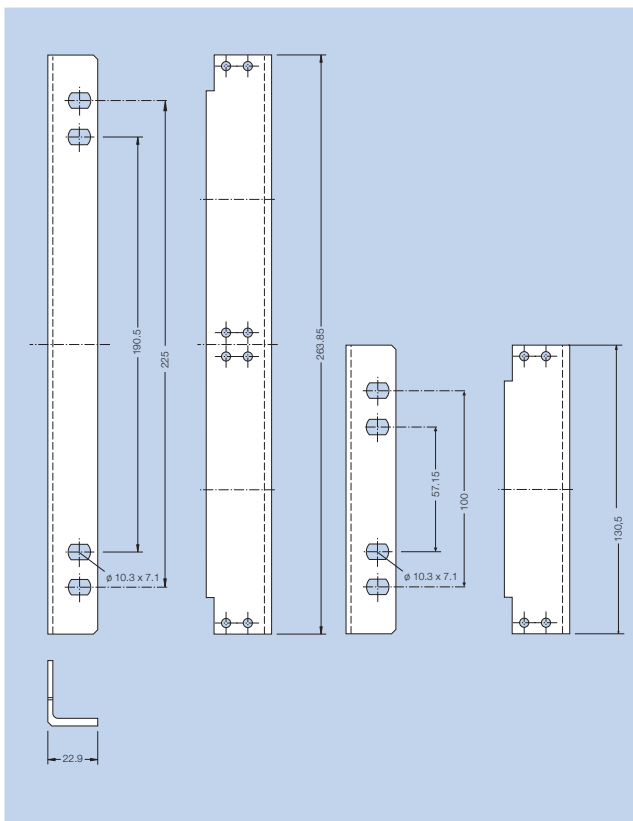
This flange is suitable for mounting of a continuous front panel of 85 HP and a hinged front panel of 85 HP in a subrack. The flange will be mounted to the side panel by means of the mounting screws for the horizontal rails.

Material: aluminum, extruded

Finish: passivated

Ordering details

	order no. 409
Flange RFI - FP - 3 U	114708
Flange RFI - FP - 6 U	114715



Flange for Wall Mounting

For mounting of a subrack on a wall.

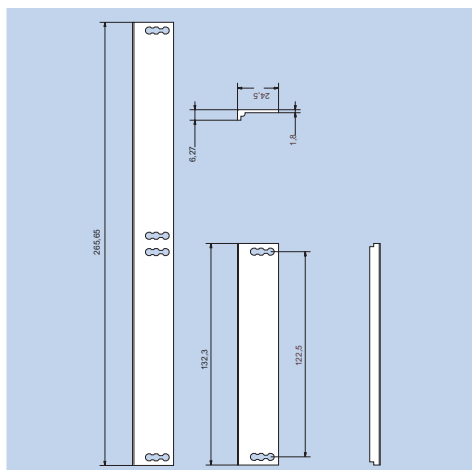
Material: aluminum

Finish: blank, seawater resistant

Ordering details

	order no. 409
Flange for wall mounting - 3 U	161110
Flange for wall mounting - 6 U	161113

Closing Profiles F and RFI -F3 Handle



Closing Profile F

For covering the slit between front panel and side panel.

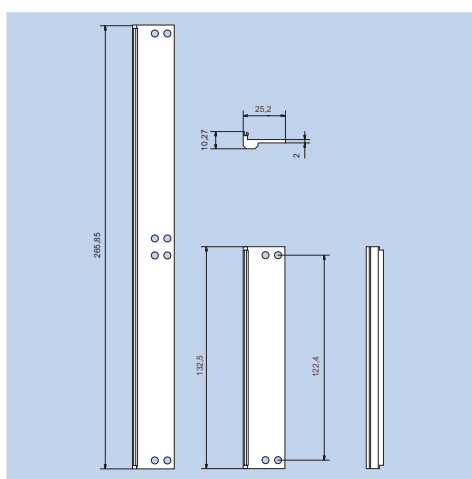
The closing profile will be mounted to the side panel by means of the mounting screws for the horizontal rails.

Material: aluminum, extruded

Finish: anodized

Ordering details

	order no. 409
Closing profile F - 3 U	085695
Closing profile F - 6 U	085696



Closing Profile RFI -F3

For covering the slit between front panel and side panel.

The closing profile will be mounted to the side panel by means of the mounting screws for the horizontal rails. With slits for insertion of RFI-springs.

Material: aluminum, extruded

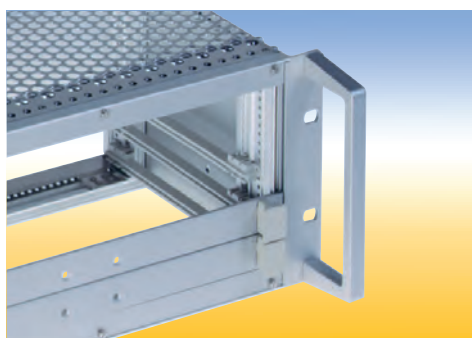
Finish: passivated

Ordering details

	order no. 409
Closing profile RFI - F3 - 3 U	122131
Closing profile RFI - F3 - 6 U	118374

Accessories

	order no. 409
RFI-spring F3 - 3 U	111636
RFI-spring F3 - 6 U	111637



Handle

Material: aluminum

Finish: anodized

Ordering details

	order no. 409
Handle -3 U	040419
Handle -6 U	040420

Accessories

Counter sunk screw M4 x 10, Torx

Minimum order quantity 100 pieces

order no.: **409105789**



Mounting parts for fastening a subrack into a housing

Screw retractor M6

Color: black

Material: POM

Minimum order quantity 10 pieces

order no.: **409074387**

Oval head screw

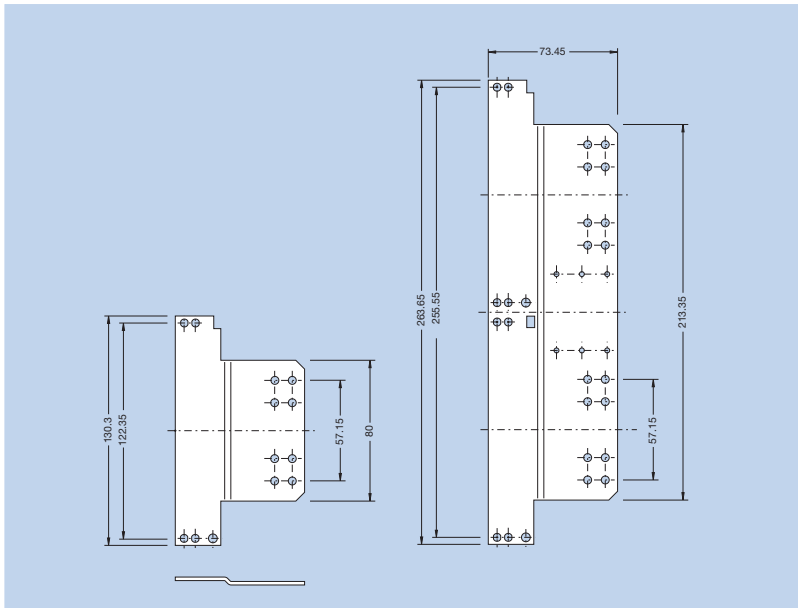
M6 x 16 DIN 7985

steel, nickel plated

Minimum order quantity 10 pieces

order no.: **409013919**

Side Panel Extender, Side Panel Connector



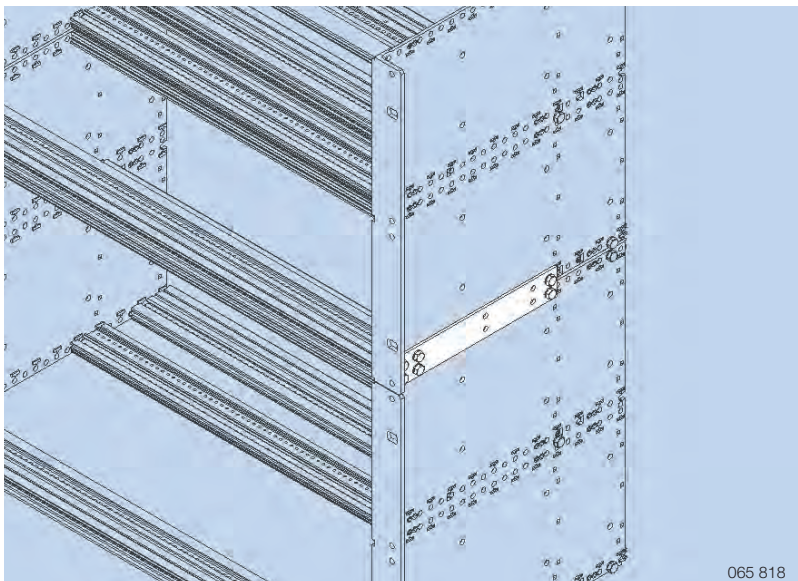
Side Panel Extender

Elongate a side panel about 60 mm to obtain a larger cabling space. The side panel extender is mounted to the side panel by means of the mounting screws for the horizontal rails.

Material: aluminum, 2 mm thick
Finish: passivated

Ordering details

	order no. 409
Side panel extender 3 U	087820
Side panel extender 6 U	087821



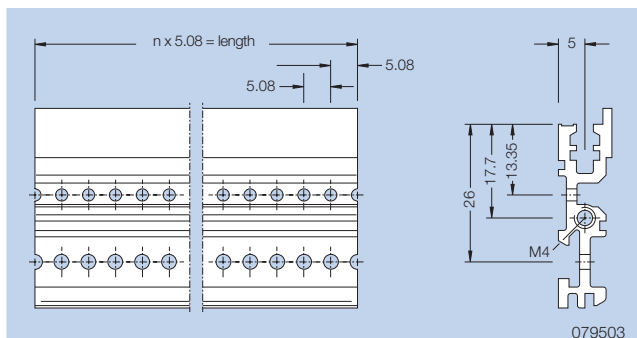
Side Panel Connector

Join two subracks, one above the other. The side panel connector is mounted to the side panels by means of the mounting screws for the horizontal rails. (nom. depth 160 mm).

Material: aluminum, 2 mm thick
Finish: blank

order no.: **409065819**

Horizontal Rails



for subrack *FLEXIBLE Fi*

Front Profile VE1

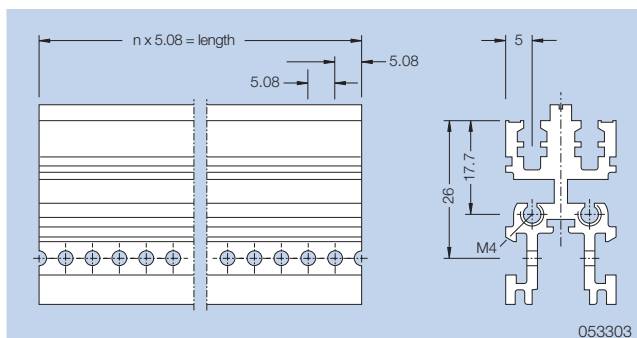
(also rear profile by using a front panel on the rear).

Material: aluminum

Finish: anodized

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Front profile VE1	21	106.68	079521
Front profile VE1	43	218.44	079543
Front profile VE1	85	431.80	079585



for subrack *FLEXIBLE, RFI-SHIELDED and InterRail*

Front Profile 2xVE1

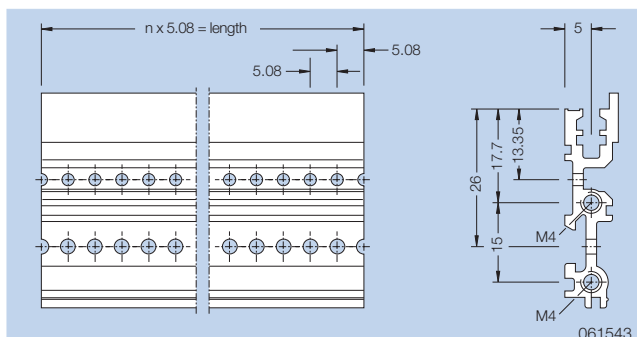
For partition e.g. 6 U subracks into two fields of 3 U.

Material: aluminum

Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Front profile 2xVE1	21	106.68	053321
Front profile 2xVE1	29	147.32	053329
Front profile 2xVE1	43	218.44	053343
Front profile 2xVE1	85	431.80	053385



for subrack *FLEXIBLE*

Front Profile VE12

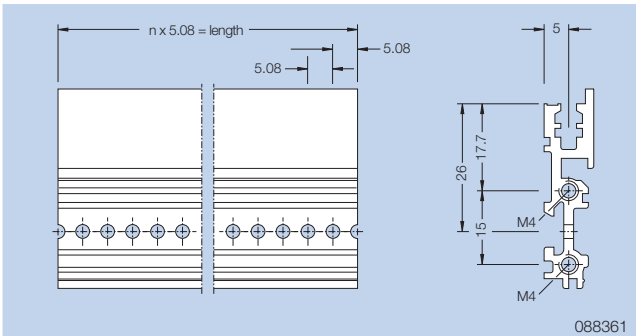
With 2 tapped holes.

Material: aluminum

Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Front profile VE12	43	218.44	062043
Front profile VE12	85	431.80	062085



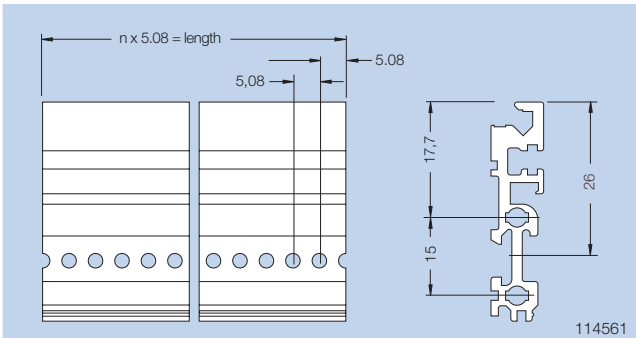
for subrack *RFI-SHIELDED*

Front Profile V12-RFI
(also rear profile by using a front panel on the rear).
With retainer for RFI-spring A2

Material: aluminum
Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no.
Front profile V12-RFI	43	218.44	090799
Front profile V12-RFI	85	431.80	088365



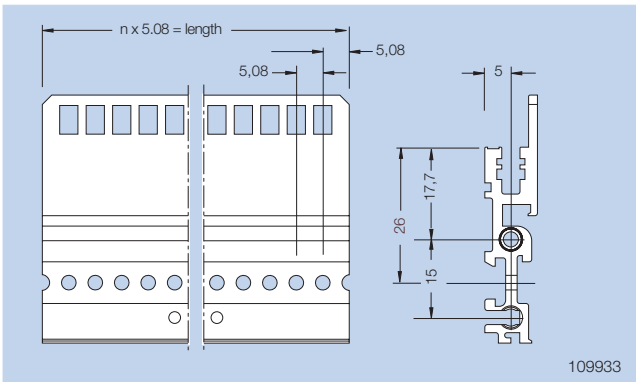
for subrack *RFI-SHIELDED*

Front Profile V12-SFP-RFI
For adapting a plug in front panel.

Material: aluminum
Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no.
Front profile V12-SFP-RFI	85	431.80	114562



for subrack *RFI-SHIELDED* and *InterRail*

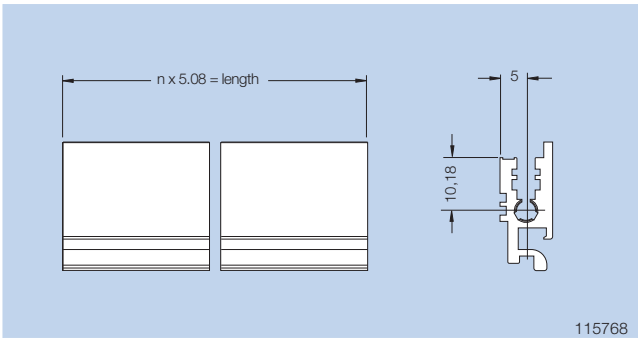
Front Profile V12-IEEE
With grid holes for IEEE handle.

Material: aluminum
Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no.
Front profile V12-IEEE-RFI	43	218.44	111182
Front profile V12-IEEE-RFI	85	431.80	109934

Horizontal Rails



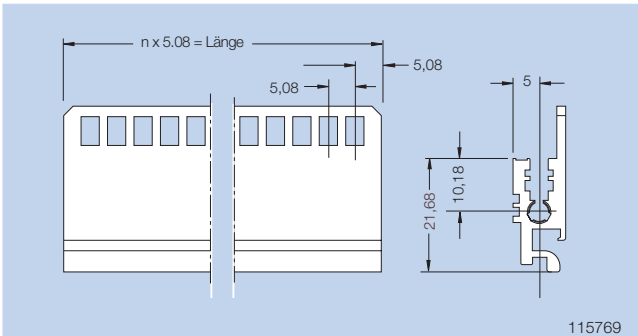
for subrack *InterRail*

Front Profile V1-HUCK
For subrack Rear I/O.

Material: aluminum
Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Front profile V1-HUCK	43	218.44	116588
Front profile V1-HUCK	85	431.80	115823



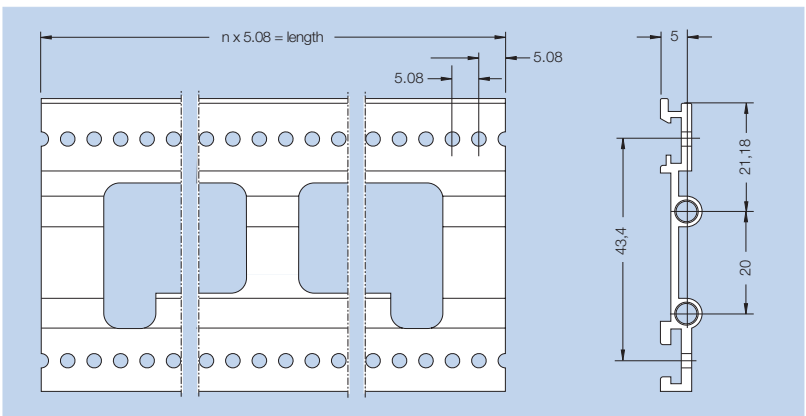
for subrack *RFI-SHIELDED* and *InterRail*

Front Profile V1-HUCK-IEEE
For subrack Rear I/O subrack. With grid holes for IEEE handle. Strengthened version.

Material: aluminum
Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Front profile V1-HUCK-IEEE	43	218.44	116507
Front profile V1-HUCK-IEEE	85	431.80	115824



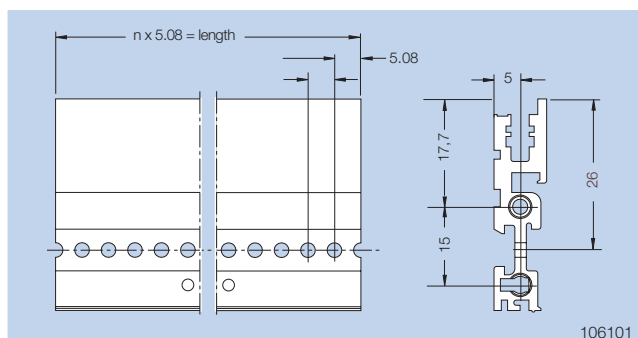
for subrack *RFI-SHIELDED* and *InterRail*

Support Profile
For insertion of card guides in subrack Rear I/O.

Material: aluminum
Finish: blank

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Support profile	43	218.44	122421
Support profile	85	431.80	115771



for subrack **RFI-SHIELDED** and **InterRail**

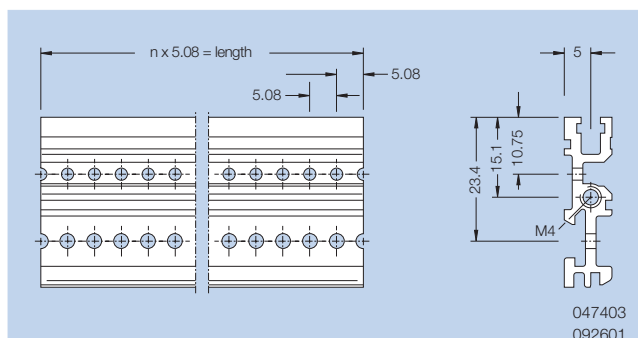
Front Profile V12-S-RFI

(also rear profile by using a front panel on the rear).
Strengthened version.

Material: aluminum
Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Front profile V12-S-RFI	37	187.96	106102
Front profile V12-S-RFI	43	218.44	116586
Front profile V12-S-RFI	85	431.80	106103



for subrack **FLEXIBLE** and **RFI-SHIELDED**

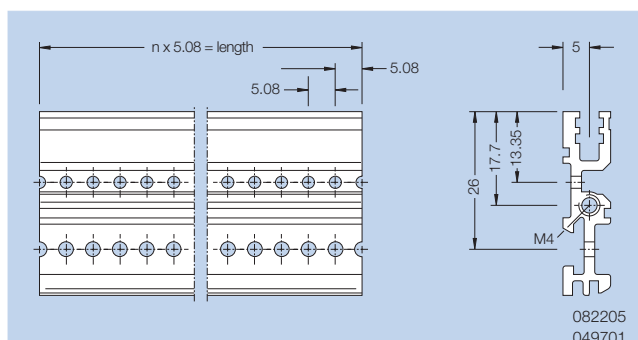
Rear Profile HE1

(type *alpha*).

Material: aluminum
Finish: anodized or passivated

Ordering details

	nom. width [HP]	length [mm]	anodized order no. 409	passivated order no. 409
Rear profile HE1	21	106.68	047421	161245
Rear profile HE1	43	218.44	047443	104994
Rear profile HE1	85	431.80	047485	092602



for subrack **FLEXIBLE** and **RFI-SHIELDED**

Rear Profile HE2

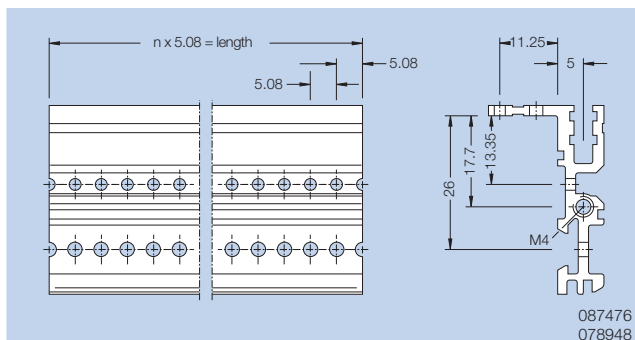
(type *delta*).

Material: aluminum
Finish: anodized or passivated

Ordering details

	nom. width [HP]	length [mm]	anodized order no. 409	passivated order no. 409
Rear profile HE2	21	106.68	049721	082121
Rear profile HE2	43	218.44	049743	082143
Rear profile HE2	85	431.80	049785	082185

Horizontal Rails



for subrack **FLEXIBLE**

Rear Profile HZE

(type *beta*) with integrated connector attachment.

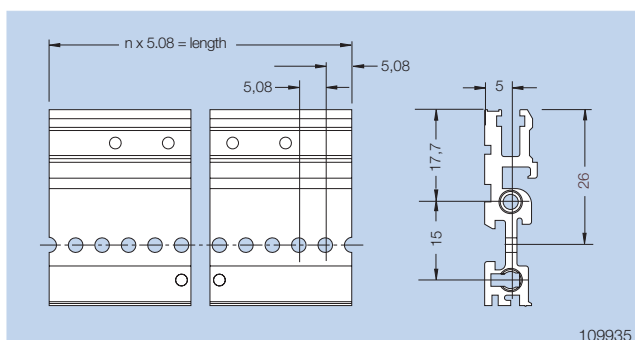
Material: aluminum

Finish: anodized or passivated

Ordering details

	nom. width [HP]	length [mm]
Rear profile HZE	21	106.68
Rear profile HZE	43	218.44
Rear profile HZE	85	431.80

anodized order no.	passivated order no.
409	409
047221	108061
047243	104030
047285	087475



for subrack **RFI-SHIELDED** and **InterRail**

Rear Profile H22-RFI for screw on rear cover

(type *delta*) For use with a rear cover.

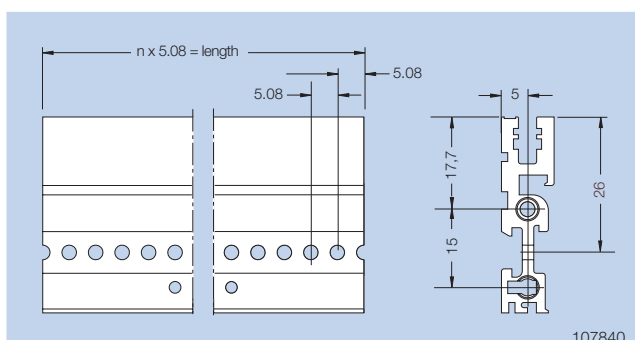
Material: aluminum

Finish: passivated

Ordering details

	nom. width [HP]
Rear profile H22-RFI for screw on rear cover	43
Rear profile H22-RFI for screw on rear cover	85

length [mm]	order no.
409	409
218.44	109 937
431.80	108 246



for subrack **InterRail**

Rear Profile H22-S-RFI

(type *delta*). Strengthened version.

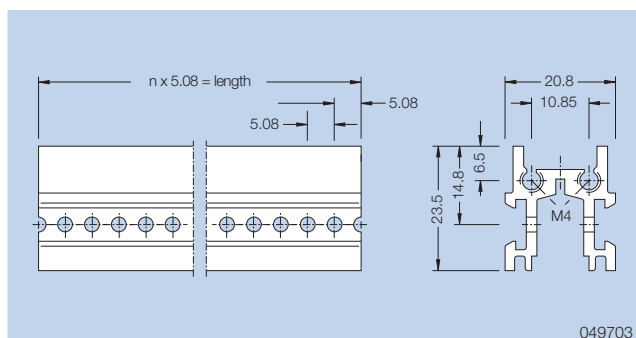
Material: aluminum

Finish: passivated

Ordering details

	nom. width [HP]	length [mm]
Rear profile H22-S-RFI	37	187,95
Rear profile H22-S-RFI	43	218.44
Rear profile H22-S-RFI	85	431.80

order no.
409
107721
107841
107842



for subrack *FLEXIBLE* and *RFI-SHIELDED*

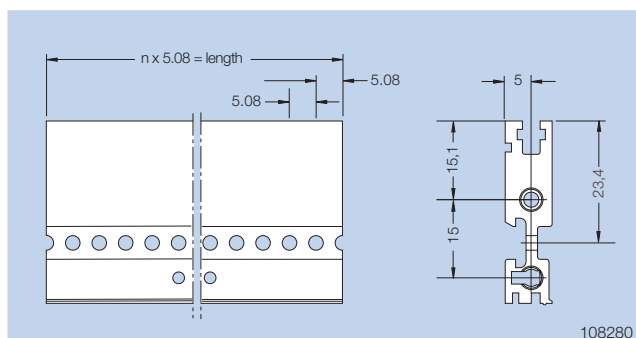
Rear Profile 2xHK

For partition, e.g. 6 U subracks into two fields of 3 U.

Material: aluminum
Finish: anodized

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Rear profile 2xHK	21	106.68	050121
Rear profile 2xHK	29	147.32	050129
Rear profile 2xHK	43	218.44	050143
Rear profile 2xHK	85	431.80	050185



for subrack *InterRail*

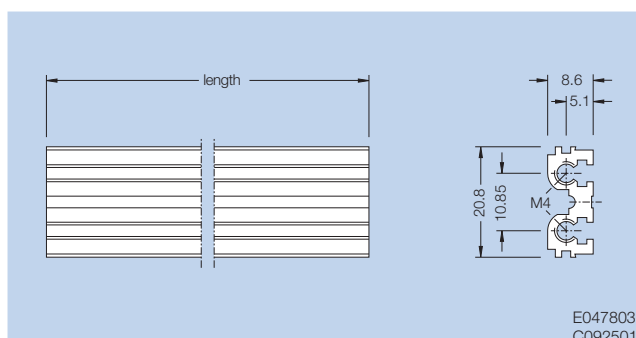
Rear Profile H12-S

(type *alpha*) Strengthened version.

Material: aluminum
Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Rear profile H12-S	37	187.96	108987
Rear profile H12-S	43	218.44	121519
Rear profile H12-S	85	431.80	108988



for subrack *FLEXIBLE* and *RFI-SHIELDED*

Center Profile ME1

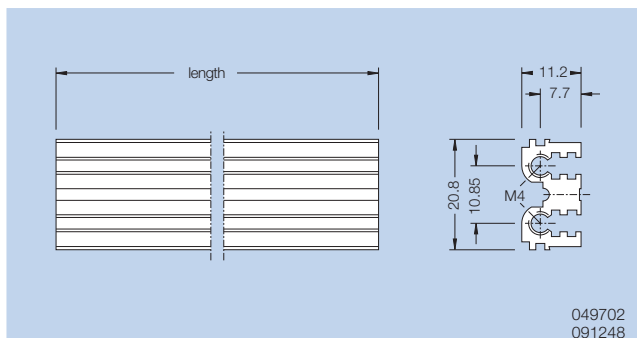
(type *alpha*) Mounted in the rear of a 6 U subrack .

Material: aluminum
Finish: anodized or passivated

Ordering details

	nom. width [HP]	length [mm]	anodized order no. 409	passivated order no. 409
Center profile ME1	21	106.68	047821	161059
Center profile ME1	43	218.44	047843	115042
Center profile ME1	85	431.80	047885	092502

Horizontal Rails



for subrack *FLEXIBLE* and *RFI-SHIELDED*

Center Profile ME2

(type delta) Mounted in the rear of a 6 U subrack.

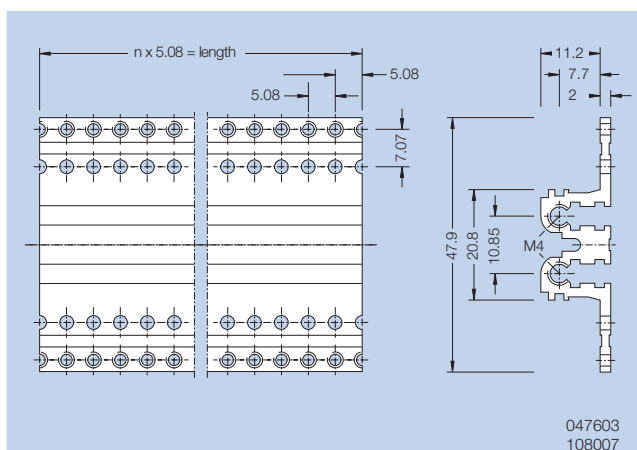
Material: aluminum

Finish: anodized or passivated

Ordering details

	nom. width [HP]	length [mm]
Center profile ME2	21	106.68
Center profile ME2	43	218.44
Center profile ME2	85	431.80

anodized order no. 409	passivated order no. 409
049921	115701
049943	111199
049985	093548



for subrack *FLEXIBLE* and *RFI-SHIELDED*

Center Profile MZE

(type beta) Mounted in the rear of a 6 U subrack, with integrated connector attachment.

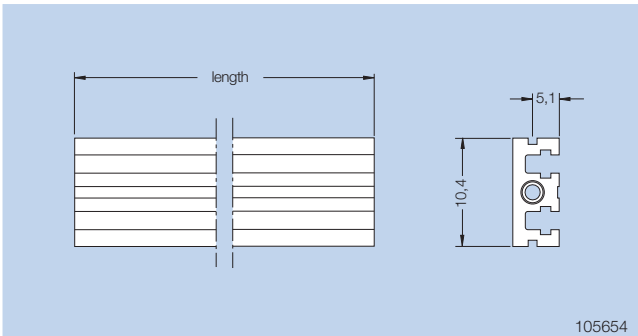
Material: aluminum

Finish: anodized or passivated

Ordering details

	nom. width [HP]	length [mm]
Center profile MZE	21	106.68
Center profile MZE	43	218.44
Center profile MZE	85	431.80

anodized order no. 409	passivated order no. 409
047621	122377
047643	122378
047685	108008



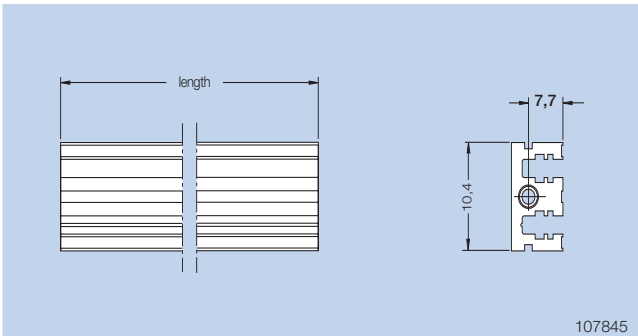
for subrack *InterRail*

Center Profile M1-S
(type alpha) Mounted in the rear of a 6 U subrack.
Strengthened version.

Material: aluminum
Finish: passivated

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Center profile M1-S	37	187.96	105655
Center profile M1-S	43	218.44	122379
Center profile M1-S	85	431.80	105656



for subrack *InterRail*

Center Profile M2-S
(type delta) Mounted in the rear of a 6 U subrack.
Strengthened version.

Material: aluminum
Finish: passivated

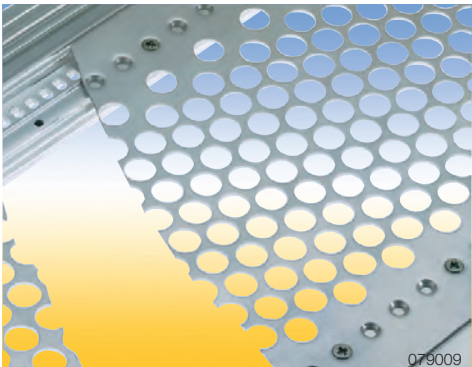
Ordering details

	nom. width [HP]	length [mm]	order no. 409
Center profile M2-S	37	187.96	107722
Center profile M2-S	43	218.44	107846
Center profile M2-S	85	431.80	107847

Accessories

	order no. 409
For contact between pront panel	
RFI-spring P2 - 42 HP	106546
RFI-spring P2 - 84 HP	106547
For contact between pr	
RFI-spring A2 - 42 HP	090800
RFI-spring A2 - 84 HP	085011

Cover Plates



Accessories

Self tapping counter sunk screw M 2.5x10

Minimum order quantity 100 pieces

order no.: **409105790**

for subrack *FLEXIBLE*

Cover Plate F, screw on

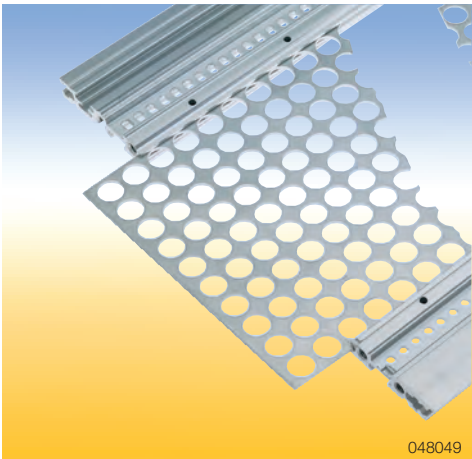
Hole diameter 8.0 mm.

The cover plate is mounted on the horizontal rails with self tapping countersunk screws at special holes

Material: aluminum, 1 mm thick
Finish: blank, seawater resistant

Ordering details

	nom. width [HP]	nom. depth [mm]	order no. 409
Cover plate F, screw on	84	160	079184
Cover plate F, screw on	84	220	079284
Cover plate F, screw on	84	280	079384



for subrack *FLEXIBLE Fi*

Cover Plate Fi, slide-in

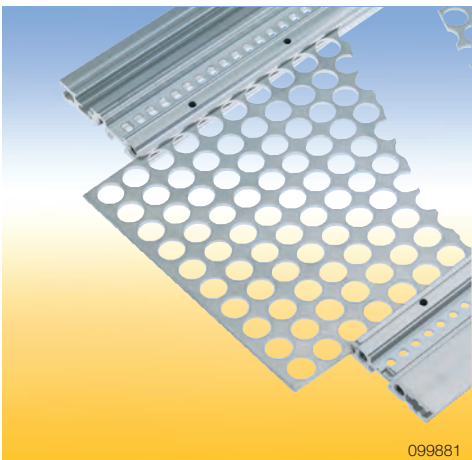
Hole diameter 8.5 mm

The cover plate slides in special slots in the profiles.

Material: aluminum, 1.5 mm thick
Finish: blank, seawater resistant

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Cover plate Fi, slide-in	84	160	048684
Cover plate Fi, slide-in	84	220	048784



for subrack *FLEXIBLE Fs*

Cover Plate Fs, slide-in

Hole diameter 8.5 mm.

The cover plate slides in special slots in the profiles.

Material: aluminum, 1.5 mm thick
Finish: blank, seawater resistant

Ordering details

	nom. width [HP]	length [mm]	order no. 409
Cover plate Fs, slide-in	84	160	099883



for subrack *RFI-SHIELDED* and *InterRail*

Cover Plate, inside

Hole diameter 4 / 5.2 x 4 mm. The cover plate is mounted with self tapping counter sunk screws on the inside of the side panels. Additionally the cover plate is secured to the horizontal rails by clips.

Material: aluminum, 1 mm thick

Finish: passivated, seawater resistant

Ordering details

	nom. width [HP]	nom. depth [mm]	order no. 409
Cover plate, inside	84	160	115270
Cover plate, inside	84	220	116603
	nom. width [HP]	PCB depth/ nom. depth [mm]	order no. 409
Cover plate, inside	84	160 / 220	121329
Cover plate, inside	84	160 / 280	122549
Cover plate, inside	84	220 / 280	122550

Accessories

	order no. 409
For assembling the cover plate to the side panel. Minimum order quantity 100 pieces	
Self tapping counter sunk screw M 2.5 x 6	067624
For assembling the cover plate to the horizontal rails. Minimum order quantity 10 pieces	
Clip	115224



for subrack *RFI-SHIELDED*

Cover Plate, outside

Hole diameter 4 / 5.2 x 4 mm. The cover plate will be mounted with self tapping counter sunk screws outside of the side panels. Additionally the cover plate is secured to the horizontal rails by clips.

Material: aluminum, 1 mm thick

Finish: blank, seawater resistant

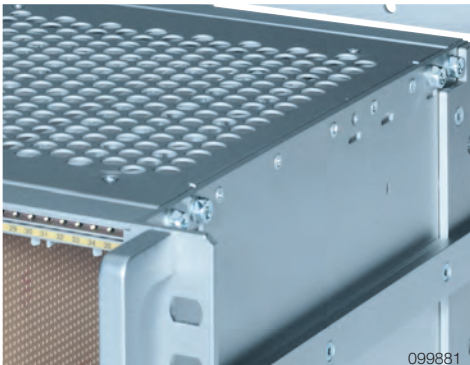
Ordering details

	nom. width [HP]	nom. depth [mm]	order no. 409
Cover plate, outside	84	240	161104
Cover plate, outside	84	260	161105
Cover plate, outside	84	340	115540
Cover plate, outside	84	460	115542

Accessories

	order no. 409
For assembling the cover plate to the side panel. Minimum order quantity 100 pieces	
Self tapping counter sunk screw M 4.7 x 6.5	111184
For assembling the cover plate to the horizontal rails. Minimum order quantity 10 pieces	
Clip	115224

Cover Plates, Rear Cover



for subrack *InterRail*

Cover Plate *InterRail*

Hole diameter 8.0 mm.
The cover plate is mounted with self tapping counter sunk screws at the side panels and at the horizontal rails.

Material: aluminum, 1 mm thick
Finish: blank, seawater resistant

Ordering details

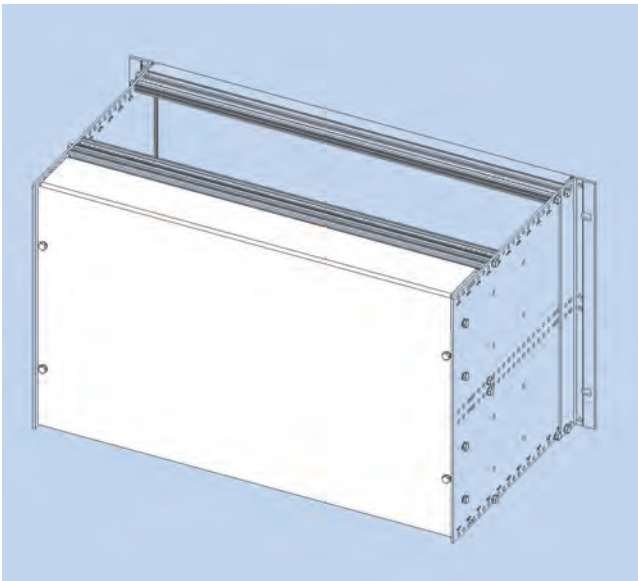
	nom. width [HP]	nom. depth [mm]	order no. 409
Cover plate <i>InterRail</i>	84	160	107906
Cover plate <i>InterRail</i>	84	220	107905
Cover plate <i>InterRail</i>	36	220	107723

Accessories

Self tapping counter sunk screw M 2.5 x 6

Minimum order quantity 100 pieces

order no.: **409067624**



for subrack *FLEXIBLE*

Rear Cover F 84 HP

Technische Daten

Material	Rear cover: aluminum: Holding angle: steel
Finish	Rear cover: passivated Holding angle: galvanized, passivated

Delivery:
Unassembled as single parts or as kit.

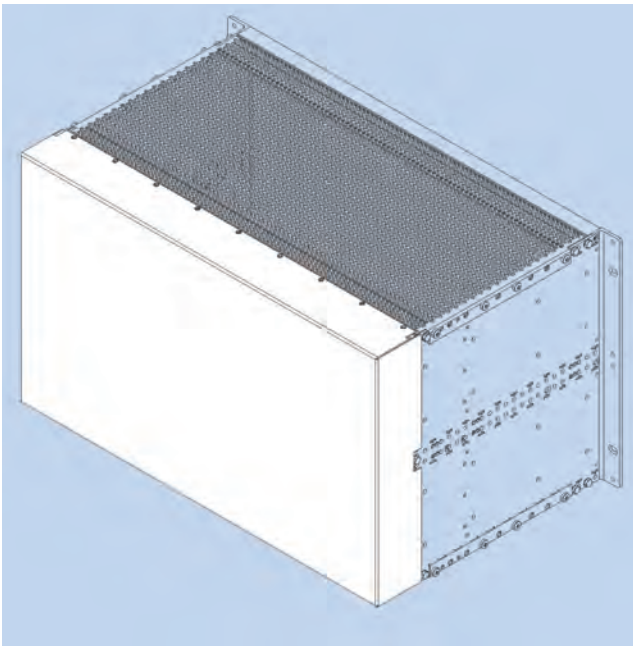
Ordering details

	nom. height [U]	height [mm]	order no. 409
Rear cover F	3	125.0	088190
Rear cover F	6	258.5	089244

Delivery kit rear cover F 84 HP

	3 U Stück	6 U Stück
Rear cover 84 HP	1	1
Holding angle	2	4
Mounting parts	1	1

Rear Cover



Rear Cover RFI 84 HP

Protective wiring rear cover for RFI shielded enclosure.

Material: aluminum, 1 mm thick

Finish: passivated

Delivery:

Unassembled as single parts or as kit.

Delivery:

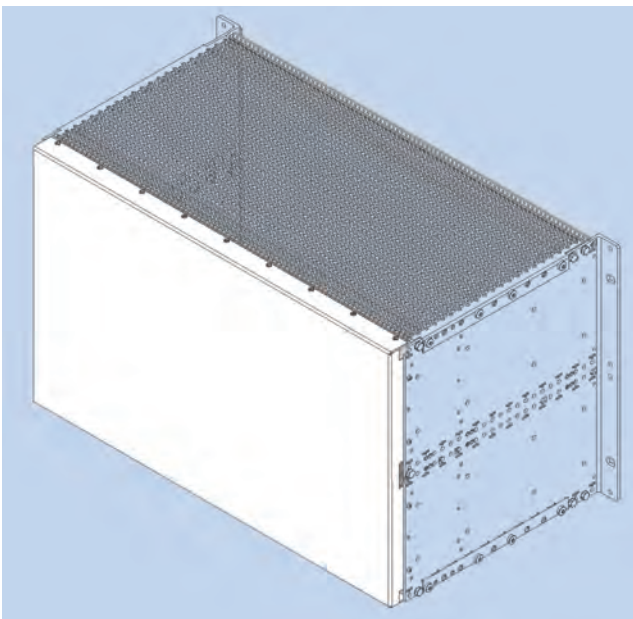
1 rear cover 84 HP

2 RFI-spring U2 (4 for 6 U)

Mounting parts

Ordering details kit rear cover RFI 84 HP

	nom. height [U]	height [mm]	order no. 409
Rear Cover RFI	3	125.0	115898
Rear Cover RFI	6	258.5	115899



Rear Cover RFI 84 HP, inside

Protective wiring rear cover for RFI shielded enclosure.

Material: aluminum, 1 mm thick

Finish: passivated

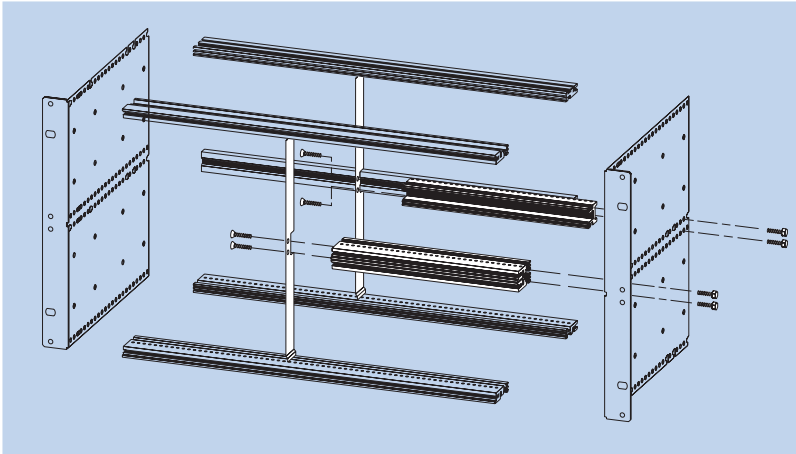
Ordering details rear cover RFI 84 HP, inside

	nom. height [U]	height [mm]	order no. 409
Rear Cover RFI	3	133.15	108875
Rear Cover RFI	6	266.5	108876

Accessories

	order no. 409
For assembling the rear cover to the pr der quantity 100 pieces	
Counter sunk screw M 2.5 x 6	067624
For assembling the rear cover to the side panel. Minimumm order quantity 100 pieces	
Self tapping Taptite screw M 2.5 x 6	082239

Subrack Divider



Assembly:

The short horizontal rails are assembled to the side panel. The dividing strip is inserted into the horizontal rail groove, fixed with a rotating motion and mounted on the short horizontal rails.

Positioning note:

For optimum use of available space in the subrack, PCB's of 6 U should be mounted left, and the 3 U on the right. In this case the dividing strip requires only 1 HP, otherwise 2 HP for the necessary air and leakage paths.

for subrack **FLEXIBLE** and **RFI-SHIELDED**

Subrack Divider Kit

2 x 3 U - 42 HP and 6 U - 40 HP

The divider separates a 6 U subrack into a field for 6 U PCB's and 2 fields of 3 U.

Finish: passivated

Delivery:

- 1 double front profile
- 2xVE1-43 HP passivated
- 1 double rear profile
- 2xHK-43 HP anodized
- 2 divider strips
- Mounting parts

order no.: **409082063**

Single Parts

Blind Front Panel for Subrack Divider

For covering of the divider strip. Optional with RFI-springs for a RFI shielded front.

Material: aluminum
Finish: passivated
Dimensions: 2 HP x 6 U

order no.: **409116319**

Accessories

order no. **409**

RFI-spring F3 - 3U

111112

RFI-spring F3 - 6U

111116

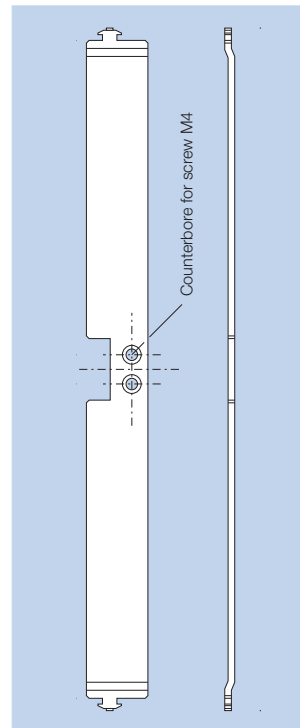
Needed 1 x 6 U and 2 x 3 U RFI-springs

For assembly of the front panel to the horizontal rail

Minimum order quantity 100 pieces

Pan head screw
M 2.5 x 11.3

101917



Divider Strip

Material: aluminum
passivated

Dimensions: 6 U

order no.: **409078942**

Accessories

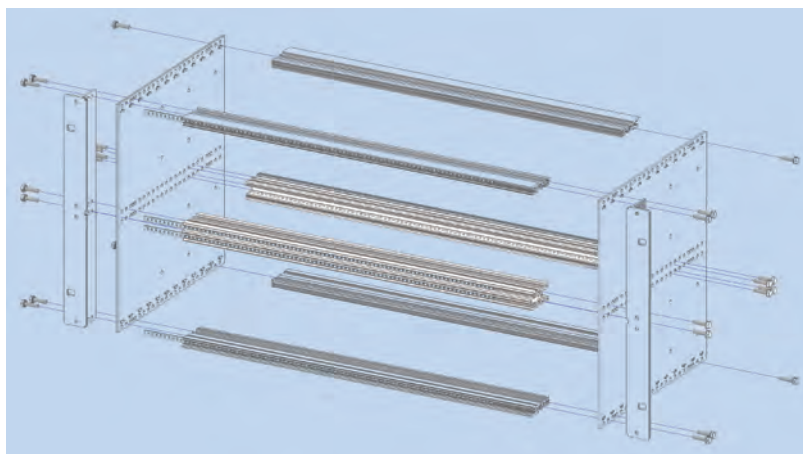
**Counter sunk screw
M 4 x 16**

For assembly of the divider strip to the horizontal rail:

Minimum order quantity 100 pieces

order no.: **409107342**

Subrack Divider, Horizontal Mounting Frame



for subrack **FLEXIBLE** and
RFI-SHIELDED

Subrack Divider Kit 2 x 3 U - 84 HP

For partitioning a 6 U subrack in 2x3U.

Delivery:

1 double front profile
2xVE1 - 85HP colorless passivated 1
double rear profile
2xHK - 85HP anodized
Mounting parts

order no.: **409166270**



Horizontal Mounting Frame

20 HP for horizontal mounting of 6 U
PCB's in 3U subracks.

The horizontal mounting frame needs
52 HP in the width.

For 84 HP subracks are available

Placed right:

52 HP for horizontal mounting frame,
32 HP for 3 U-PCB's

Placed left:

52 HP for horizontal mounting frame,
1 HP for air and leakage paths,
31 HP for 3 U-PCB's.

Ordering details for horizontal mounting frame kits

		nom. depth [mm]	type <i>alpha</i> order no. 409	type <i>beta</i> order no. 409	type <i>delta</i> order no. 409
6 U	anodized	user-	069047	064947	064687
6 U RFI	passivated	160	161161	-	161165
6 U RFI	passivated	220	161162	-	161166

Accessories

Threaded strip 20 x M 2.5

order no.: **409131688**

Partition Wall, Separating Wall Wall and Door Installation Profiles



Partition Wall

For partitioning of a subrack part.
The partition wall 6 U can also be used as a RFI shielded subrack divider in 6 U and 2x3 U parts.

Delivery:

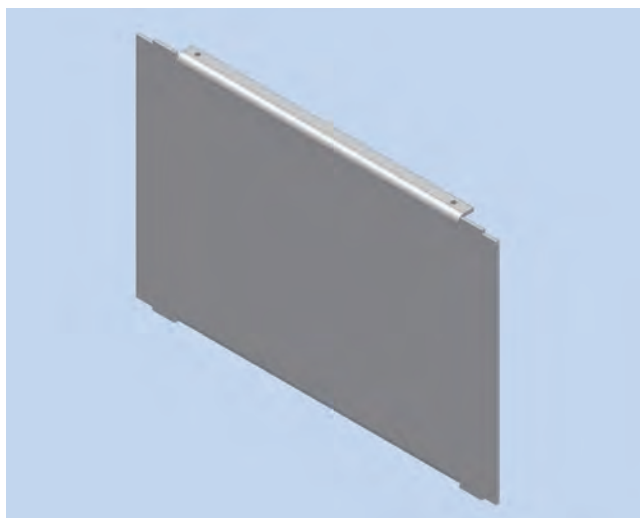
1 partition wall
1 front panel 2 HP
Mounting parts

Accessories

	3 U order no. 409	6 U order no. 409
Shielding kit	116416	116418
consists of:	pieces	pieces
RFI-spring F3 - 3 U	2	2
RFI-spring F3 - 6 U	-	1
RFI-spring M - P1	1	2
Clamping plate	1	2
Mounting parts	1	1

Ordering details kit

	nom. depth 160 mm order no. 409	nom. depth 220 mm order no. 409
Partition wall 3 U	116333	116334
Partition wall 6 U	116335	116336



Separating Wall

Material: aluminum

Finish: blank

Delivery: 1 separating wall
Mounting parts

Ordering details kit

	nom. depth 160 mm order no. 409	nom. depth 220 mm order no. 409
Separating wall 3 U	122648	122649
Separating wall 6 U	122650	122651



for subrack *FLEXIBLE Fs*, *RFI-SHIELDED* and *InterRail*

Wall and Door Installation Profile Kit

For mounting subracks in a door, switch panel etc.
The installation profiles are mounted to the side panel by means of the mounting screws to the horizontal rails.

Material: aluminum

Finish: anodized

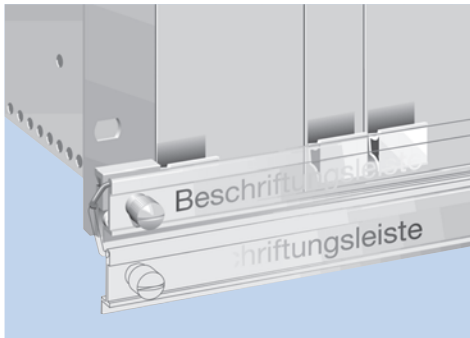
Delivery:

2 wall installation profiles

Ordering details kit

	order no. 409
Wall installation profile 42 HP	108045
Wall installation profile 84 HP	108012

Labelling Rail, Locking Rail Label Strip



for subrack *FLEXIBLE Fs*, *RFI-SHIELDED*, *InterRail*

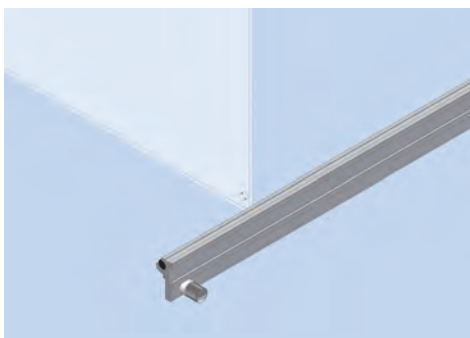
Labelling Rail 84 HP

This hinged labelling rail is mounted on the subrack flanges. Normally, it is placed in front of the front panels. For ejecting a PCB, the rail is turned down.

order no.: **409121941**

Delivery:

1 labelling rail
2 mounting flanges
2 hinge brackets
Mounting parts



Locking Rail 84 HP

For locking of PCB's without front panels. The locking rail is mounted at the horizontal rail in front of the PCB's. A labeling strip can be insert into a groove.

order no.: **409120790**

Delivery:

1 locking rail
1 rubber
Mounting parts



Label Strip

Self adhesive. For identifying PCB slots in the subrack. The PCB slot number can be read through the hole in the front panel.

Note:

The label strip cannot be read while using the RFI spring P2.

Material: PC/PE-foil

Color: yellow/black

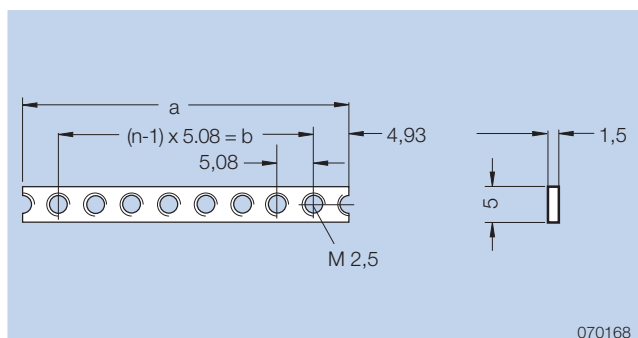
Delivery

Minimum purchase: 18 pieces on a papersheet.

Ordering details kit

	order no. 409
Label strip 01 - 84	024738
Label strip 84 - 01	024740

Threaded Strips



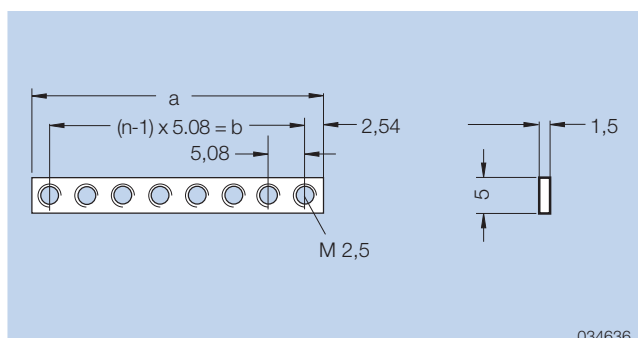
Threaded Strip M 2.5

For attaching the front panels and assembly parts at the wiring field.

Material: steel
Finish: galvanized, passivated

Ordering details threaded strip M 2.5

n = number of threads	a [mm]	b [mm]	order no. 409
20	106.38	96.52	131688
21	111.46	101.60	130883
28	147.02	137.16	131701
32	167.34	157.48	131548
36	187.66	177.80	103777
42	218.14	207.28	100843
84	431.50	421.64	091255



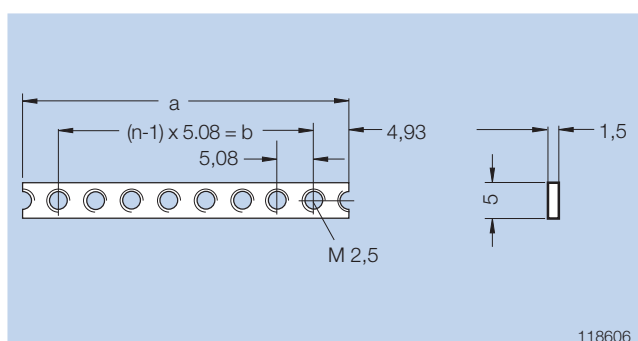
Threaded Strip M 2.5 addable

This threaded strip could be added to other strips and the space between the holes always adds up 5.08 mm.

Material: steel
Finish: galvanized, passivated

Ordering details threaded strip M 2.5 addable

n = number of threads	a [mm]	b [mm]	order no. 409
10	50.80	45.72	131836
20	101.60	96.52	131845
28	142.24	137.16	106751
42	213.36	207.28	131813
84	426.72	421.64	131478



Threaded Strip M 2.5 - stainless steel

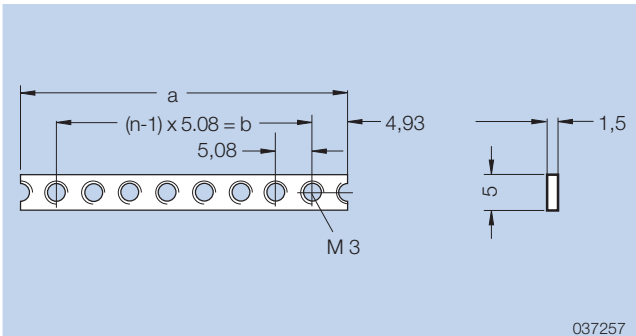
For attaching the front panels and assembly parts at the wiring field
This threaded strip is for nonmagnetic applications.

Material: stainless steel
Finish: blank

Ordering details threaded strip M 2.5 - stainless steel

n = number of threads	a [mm]	b [mm]	order no. 409
84	431.50	421.64	118608

Threaded Strips

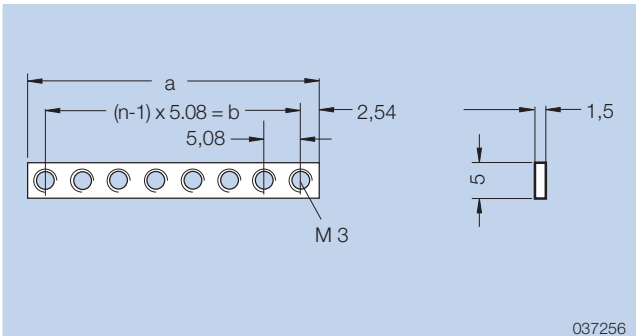


Threaded Strip M 3

Material: steel
Finish: galvanized, passivated

Ordering details threaded strip M 3

n = number of threads	a [mm]	b [mm]	order no.
84	431.50	421.64	130890



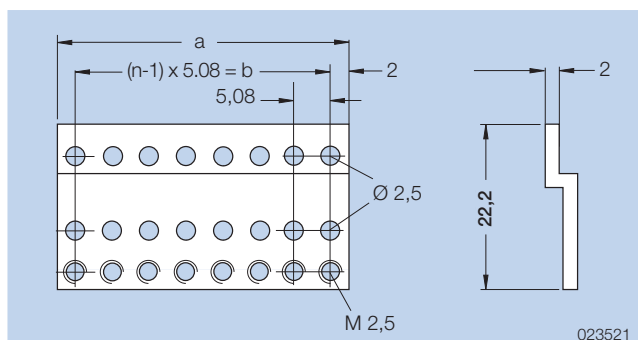
Threaded Strip M 3 addable

Material: steel
Finish: galvanized, passivated

Ordering details threaded strip M 3 addable

n = number of threads	a [mm]	b [mm]	order no.
84	426.72	421.64	132038

Z-Rail A, Mounting Rail B



Z-Rail A tapped M 2.5

For mounting connectors in accordance to IEC 60 603/ DIN 41 612 in subracks type *alpha*.
Mounted on the rear profile.

Material: aluminum
Finish: passivated

Ordering details Z-rail A tapped M 2.5

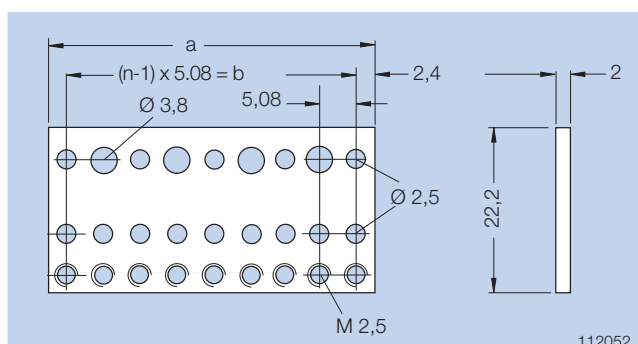
n [HP]	a [mm]	b [mm]	Order no. 409
22	110.68	106.68	024361
42	212.28	208.28	024380
84	426.44	421.64	026586

Accessories

Mounting parts for assembling the Z-rail A:
for 84 HP Z-rail, 5 places suggested.

Minimum order quantity 100 pieces

	order no. 409
Oval head screw M 2.5 x 8 ISO 7045	094602
Washer 2.7	013911
Fitting bolt M 2.5 x 6.5 (for connectors)	032708



Mounting Rail B tapped M 2.5

For mounting connectors in accordance to IEC 60 603/ DIN 41 612.

For mounting at the rear profile on subracks type *alpha* with insulating strip and insulating bushings.

For mounting at the rear profile on subracks type *delta*.

Material: aluminum
Finish: blank

Ordering details mounting rail B tapped M 2.5

n [HP]	a [mm]	b [mm]	order no. 409
42	212.28	208.28	112054
84	426.44	421.64	112055

Accessories

Mounting parts for assembling the mounting rail B:
for 84 HP Z-rail, 5 places suggested.

Minimum order quantity 100 pieces

	order no. 409
Washer 2.7	013911
Fitting bolt M 2.5 x 6.5 (for connectors)	032708
for type <i>alpha</i>	
Oval head screw M 2.5 x 12 ISO 7045	094604
for type <i>delta</i>	
Oval head screw M 2.5 x 8 ISO 7045	094602



Insulating Strip

For insulated mounting of wiring supports, e. g. of the mounting rail B. Mounted between horizontal rail and wiring support.

Technical data

Material	PPO / PC
Continuous temperature	– 40 °C up to + 105 °C
Fire protection class	UL 94 V–1
Color	gray

Ordering details

	length [HP]	order no. 409
Insulating strip-40	40	061541
Insulating strip-84	84	051981



Insulating Bushing 2.6

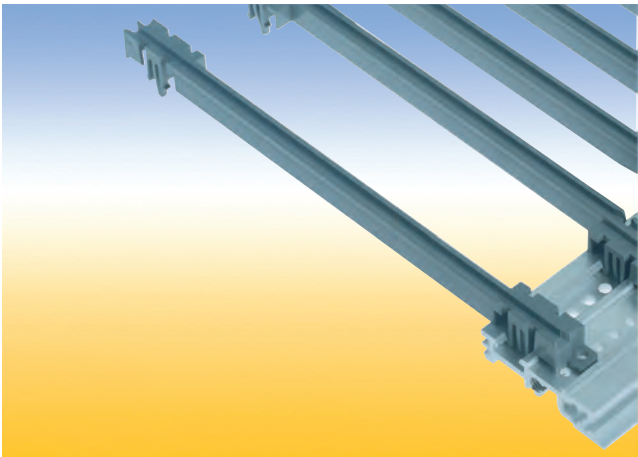
For use together with mounting rail B and insulating strip.

Technical data

Material	PC
Continuous temperature	– 40 °C up to + 115 °C
Fire protection class	UL 94 V–0
Color	transparent

order no.: **409018055**

Card Guide ECONOMY



for subrack *FLEXIBLE*

Card Guide ECONOMY

An inexpensive snap-in card guide that can also be secured to the horizontal rails with self tapping screws.

Technical data

Material	PC
Color	gray
Continuous temperature	– 40 °C up to + 115 °C
Fire protection class	UL 94 V–0

Ordering details

	nom. length [mm]	PCB thickness [mm]	order no.
Card guide ECONOMY	160	1.6	108173
Card guide ECONOMY	220	1.6	047601

Accessories

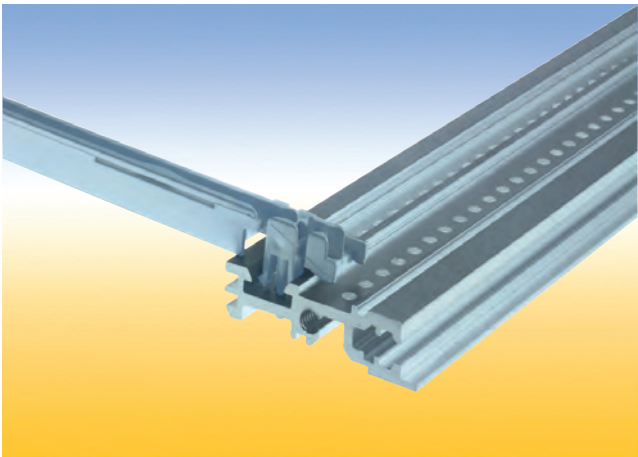
Self tapping oval head screw M 2.5 x 5

For assembling the card guides to the horizontal rails

Minimum order quantity 100 pieces

order no.: **409039691**

Card Guide UNIVERSAL



Card Guide UNIVERSAL

This is an all-purpose card guide with provision for a spring to contact front panels.

Technical data

Material	PC
Color	gray
Continuous temperature	– 40 °C up to + 115 °C
Fire protection class	UL 94 V–0

Ordering details

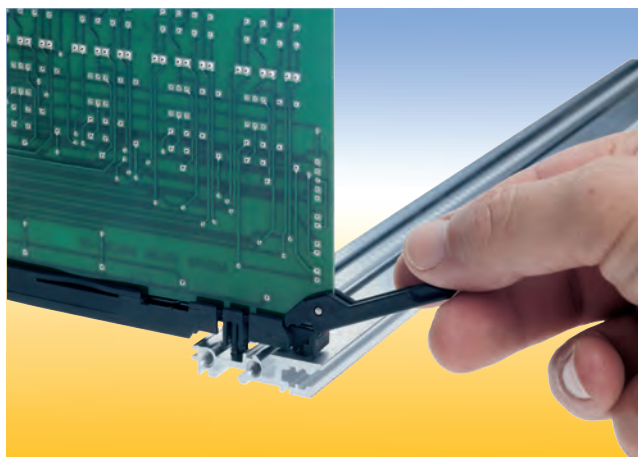
	nom. length [mm]	PCB thickness [mm]	order no. 409
Card guide UNIVERSAL	160	1.6 - 2.0	061468
Card guide UNIVERSAL	220	1.6 - 2.0	061469
Card guide UNIVERSAL	280	1.6 - 2.0	061526

Accessories

Grounding contact for front panels

order no.: **409058102**

Card Guide with integrated push and pull assist



Card Guide with integrated push and pull assist

This special card guide with an integral small lever aids in the handling of PCB's with high pin plug in connectors.

The lever is supported by the walls of a special guide chamber when the board is pulled out or pushed in. It is suitable for a spring to contact a track near the PCB edge.

This card guides are snap-in and can be secured with screws.

Delivery:

- 1 card guide top
- 1 card guide bottom

Technical data

Material	card guide: PBT lever: PPO grooved pin: steel, blank
Color	black
Continuous temperature	- 40 °C up to + 130 °C
Fire protection class	UL 94 V-0



Ordering details kit

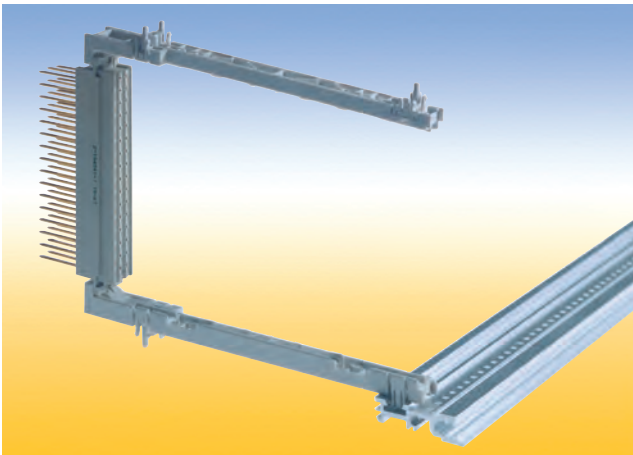
card guide with integrated push and pull assist

	nom. length [mm]	PCB thickness [mm]	order no.
Card guide 160	160	1.6	112453
Card guide 220	220	1.6	112454
Lever with grooved pin	-	1.6	111157

For a card guide kit needed 2 levers

Accessories

	Order no. 409
PCB track contact PROFIL	103358
For assembling the card guides to the horizontal rails. Minimum order quantity 100 pieces	
Oval head screw M 2.5 x 12	094604
Hexagonal nut M 2.5	013938
Washer 2.7	013911



Card Guide CONN

For easy screwless snap-on mounting of connectors accordance to IEC 60 603/ DIN 41 612.

With a provision for a spring to contact front panels and for contacting a track near the PCB edge.

This snap-in card guides can also be secured with screws.

Delivery:

- 1 card guide CONN top
- 1 card guide CONN bottom

Technical data

Material	nom. length 160: PC nom. length 220: PBT
Color	gray
Continuous temperature	Lexan: - 40 °C up to + 115 °C PBT: - 40 °C up to + 130 °C
Fire protection class	UL 94 V-0

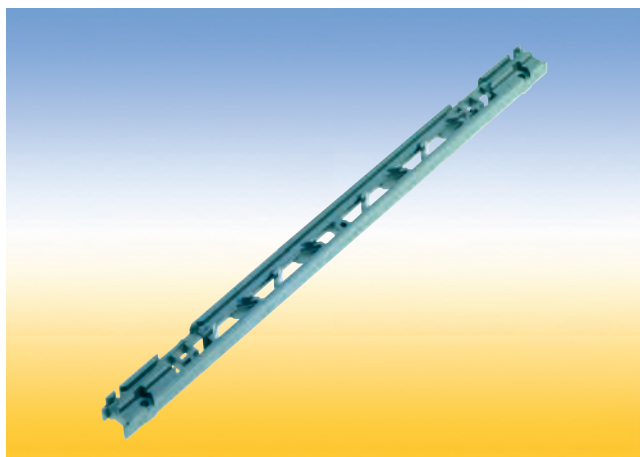
Ordering details kit card guide CONN

	nom. length [mm]	PCB thickness [mm]	order no. 409
Card guide CONN	160	1.6	083091
Card guide CONN	220	1.6 - 2.4	116200

Accessories

	order no. 409
Grounding contact for front panels	058102
PCB track contact PROFIL	103358
For assembling the card guides to the horizontal rails. Minimum order quantity 100 pieces	
Oval head screw M 2.5 x 12	094604
Hexagonal nut M 2.5	013938
Washer 2.7	013911

Card Guide VIB



Card Guide VIB

New model with improved flammability properties in accordance with EN45545-2 and low halogen content.

Lattice construction for heavy mechanical loads.

With a provision for a spring to contact front panels and for contacting a track near the PCB edge.

Card guides can additionally be fixed with screw and nut for increased shock and vibration requirement. Exception: Nominal length 280 always needs to be fixed by screws.

Technical data

Material	PC glass fiber reinforced
Color	black
Continuous temperature	up to + 125 °C
Fire protection class	UL 94 V-0
Halogen content	halogen free (IEC 61249-2-21)
Fire protection on railway vehicles (DIN EN 45545-2) R22, R23, R24	HL3

Two versions:

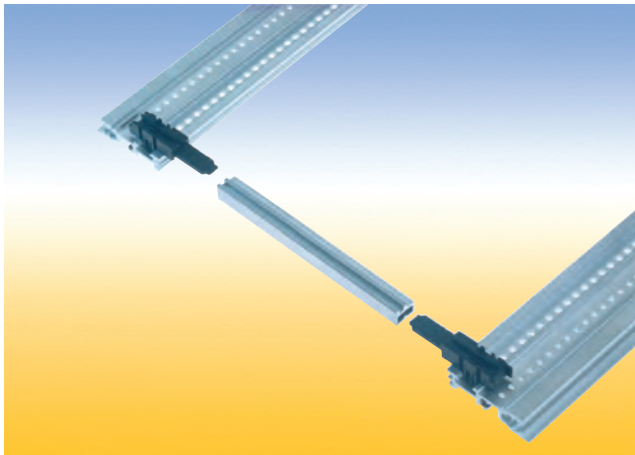
1. Without nut: Can be added subsequently in the existing hexagonal molding.
2. With nut: For assembly to the horizontal rail by oval head screws M 2.5 x 12.

Ordering details card guide VIB

nom. length [mm]	PCB thickness [mm]	snap-in	1. without nut	2. with nut
			order no. 409	order no. 409
80	1.6 - 2.4	yes	140967	-
80	1.6 - 2.4	yes	140968	-
100	1.6	yes	140964	140993
160	1.6	yes	140986	141001
160	2.0	yes	140987	141002
160	2.4	yes	140965	140994
220	1.6	yes	140969	140996
220	2.4	yes	140970	140997
280	1.6	-	-	140998

Accessories

	order no. 409
Grounding contact for front panels	058102
PCB track contact PROFIL	103358
For assembling the card guides to the horizontal rails. Minimum order quantity 100 pieces	
Oval head screw M 2.5 x 12	094604
Hexagonal nut M 2.5	013938
Washer 2.7	013911



Card Guide VARIO

This is a length variable card guide constructed from 3 pieces. The center piece can be cut to any length. With a provision for a spring to contact front panels. These snap-in end pieces can also be secured with screws.

Two versions:

1. With pressed-in nut M 2.5
for assembly to the horizontal rail with oval head screws M 2.5 x 12
2. Without a nut, but one can be added in the existing hexagonal molding.

Technical data

Material	end pieces: PPO center piece: aluminum or PPO
Color	end pieces: black center piece: black, silver
Continuous temperature	– 40 °C up to + 105 °C
Fire protection class	UL 94 V–1

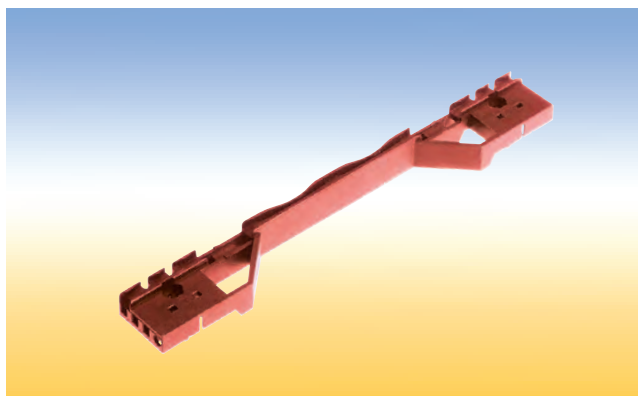
Ordering details card guide VARIO

	length [mm]	PCB thickness [mm]	order no. 409
Pair of end pieces			
with nut M 2.5	-	1.6	061086
without nut	-	1.6	061051
with nut M 2.5	-	2.4	061088
without nut	-	2.4	061052
center piece			
plastic	1000	1.6	061061
aluminum	1000	1.6	061059
plastic	1000	2.4	061062
aluminum	1000	2.4	061060

Accessories

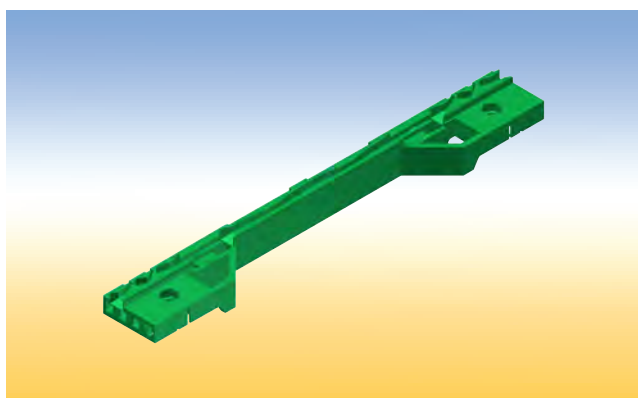
	order no. 409
Grounding contact for front panels	058102
For assembling the card guides to the horizontal rails. Minimum order quantity 100 pieces	
Oval head screw M 2.5 x 12	094604
Hexagonal nut M 2.5	013938
Washer 2.7	013911

Card Guide IEEE and Card Guide IEEE with 1/2 HP lateral offset



Technical data

Material	PBT
Color	black or red
Continuous temperature	– 40 °C up to + 115 °C
Fire protection class	UL 94 V-0



Technical data

Material	PBT
Color	green
Continuous temperature	– 40 °C up to + 115 °C
Fire protection class	UL 94 V-0

Accessories for Card Guide IEEE

	order no. 409
contact spring IEEE	113450
coding pin IEEE gray	113713
coding pin IEEE red	116442
PCB track contact PROFIL	103358
For assembling the card guides to the horizontal rails. Minimum order quantity 100 pieces	
Lens head screw M 2.5 x 12	094604
Hexagonal nut M 2.5	013938
Washer 2.7	013911

Card Guide IEEE

This card guide is in accordance to specification IEEE 1101.10.

The required coding of the IEEE is integrated in the card guide head.

With provision for the IEEE contact spring for grounding of the alignment-pins of the PCB's front panel. Also with a provision for contacting a track near the PCB edge. This snap-in card guides can be secured with screws.

Ordering details for card guide IEEE

color	nom. length [mm]	PCB thickness [mm]	order no. 409
black	160	1.6 - 2.4	113400
black	220	1.6 - 2.4	131973
red	160	1.6 - 2.4	116440

Card Guide IEEE with 1/2 HP lateral offset

This card guide is also in accordance to specification IEEE 1101.10.

For CompactPCI-power supplies and for Plug-in units fitted with SMD.

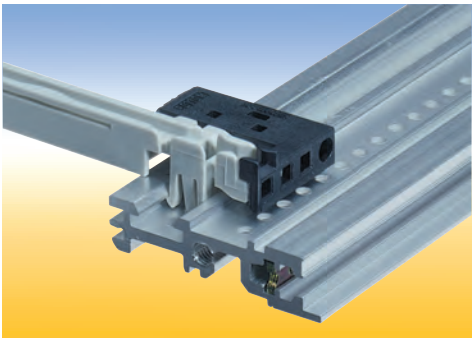
With provision for the IEEE contact spring for grounding of the alignment-pins of the PCB's front panel.

Also with a provision for contacting a track near the PCB edge.

This card guide is secured with screws.

Ordering details for card guide IEEE with 1/2 HP lateral offset

color	nom. length [mm]	PCB thickness [mm]	order no. 409
green	160	1.6 - 2.4	130889



for card guide **UNIVERSAL, CONN, VIB and VARIO**

Coding Head IEEE

Snapped on the head of standard card guides to comply to the requirements of the specification IEEE 1101.10

Functions:

- 1. Holding the IEEE contact spring for grounding the alignment pins of the front panel.
- 2. Adapting the IEEE coding pin.
- 3. Guiding the 1.6 to 2.4 mm thick PCB.

Technical data

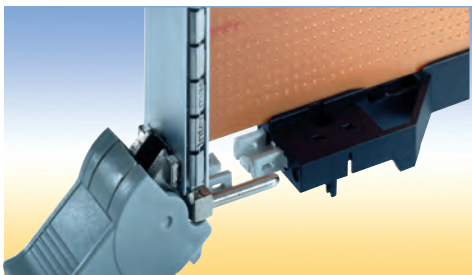
Material	PC
Color	black, red
Fire protection class	UL 94 V-0

Ordering details kit

	order no. 409
coding head IEEE - black	113905
coding head IEEE - red	116441

Delivery:

- 1 coding head IEEE top
- 1 coding head IEEE bottom



Contact Spring IEEE

Snapped into the IEEE card guide or IEEE coding head to ground the alignment pin of the front panel.

Material: tin-bronze

order no.: **409113450**

Coding Pin IEEE

Snapped into the IEEE card guide or IEEE coding head.

Technical data

Material	PC
Fire protection class	UL 94 V-0

Ordering details

	order no. 409
coding pin IEEE - gray	113713
coding pin IEEE - red	116442

Accessories for Card Guides



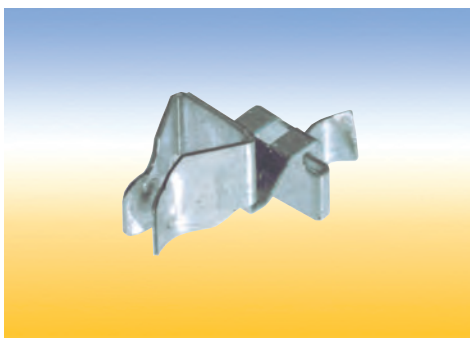
PCB Track Contact PROFIL

Snapped into a card guide, connecting a PCB's edge to the horizontal rail of a subrack.

Technical data

Material	tin-bronze
Finish	tin-plated
Fire protection class	UL 94 V-0

order no.: **409103358**



Grounding Contact for Front Panels

For pre-mating grounding. In connection with front connector with male contact.

Material: tin-bronze
tin-plated

order no.: **409058102**

Accessories

Front connector with male contact

	order no. 409
top	107728
bottom	107727



Cover for Ventilation Openings

Snapping into the horizontal rails. Covers the ventilation openings between card guides.

Material: plastic
Fire protection class: UL 94 V-0

Ordering details

	nom. length [mm]	order no. 409
Front connector with male contact 4 HP	160	106530
Front connector with male contact 4 HP	220	106531



PCB Lead-In

For easy lead-in of the PCB into the card guide.

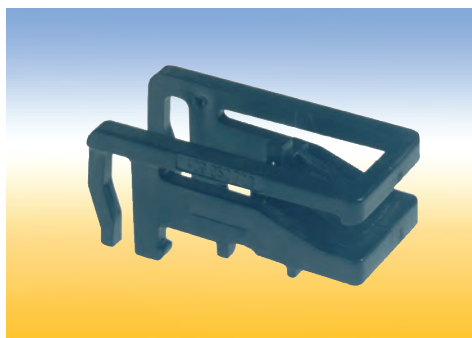
Technical data

Material	PC, 10% fiber glass reinforced
Color	gray, similar RAL 7044
Fire protection class	UL 94 V-0

Delivery:

1 PCB lead-in top
1 PCB lead-in bottom

order no.: **409092785**



PCB Locking Spring, plastic

Secures PCB without front panels.

Technical data

Material	PC
Color	black
Fire protection class	UL 94 V-0

order no.: 409052720



PCB Locking Device Kit

Secures PCB's without front panels. Used for easy locking and ejecting of PCB's

Technical data

Material	handle: PBT pin: steel
Color	black
Fire protection class	UL 94 V-0

Delivery

Kit, unassembled

Delivery:

2 handles
2 pins
2 PCB locking springs

Ordering details kit

	order no. 409
PCB locking device 1.6	068698
PCB locking device 2.4	102297