

Description

Special design features of the subrack InterProtect®:

- ✓ Upper and lower cover are made of a solid extruded aluminium profile. The surface is passivated
- ✓ Profiles have 11 screwing points on each side in order to fix the side panels.
- ✓ Profiles are equipped with channels to insert mounting or threaded strips. These strips are designated to fix frontpanel, rear wall, card guides and connectors resp. backplanes.
- ✓ Connector and backplane sections can be realized with nominal depth of 160, 180, 220 und 240 mm.
- ✓ Card guides with a nominal depth of 160 and 220 mm, optionally snap-in or screwable can be used.
- ✓ The side walls, front panel and rear wall are made of seawater resistant aluminium. They have a material thickness of 4 mm and are passivated.
- ✓ Front panel and rear wall are each fixed with 28 (42HP) resp. 52 (84HP) screws on the 3U subrack, and with 36 (42HP) resp. 60 (84HP) screws on the 6U subrack.
- ✓ The usage of high-quality sealing materials guarantees an optimal protection against dirt, dust and the intrusion of water.
- ✓ An optimal shielding is achieved by the usage of conductive sealings.
- ✓ Sealings are made of silicone resp. the conductible variant of silicone, filled with particles of nickel-plated graphite. Upon request it is also possible to use sealings made of fluorine silicone or of conductible particles of silver-plated aluminum.

Delivery form:

Supplied as unassembled kits.

These are either packed as a kit of parts for one unit or as individual components, whereby parts of similar type are packed together.

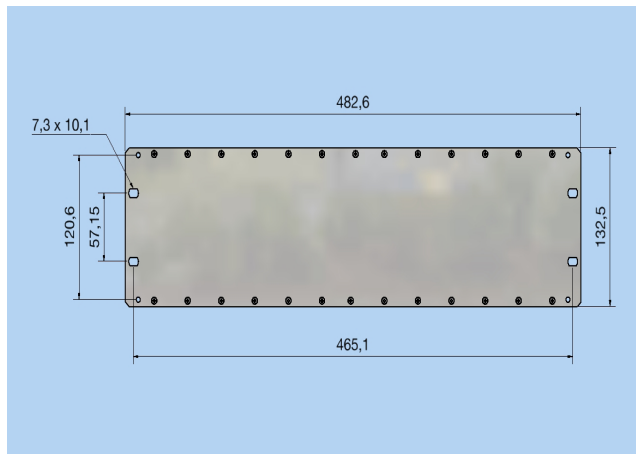
On request, delivered as assembled and wired subrack according your requirements.

Subrack *InterProtect*[®]

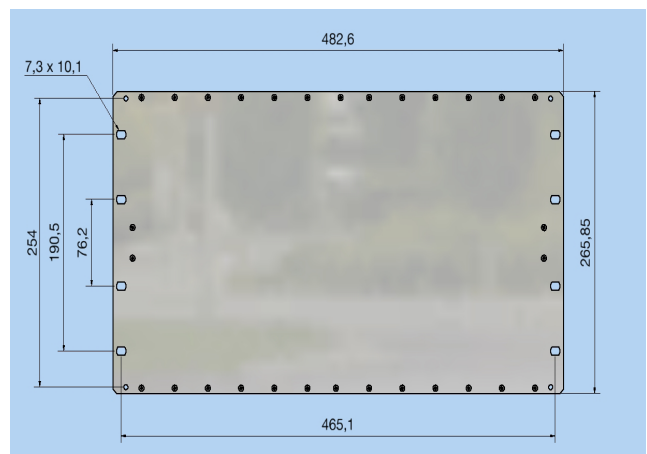
Technical Data

Dimension	Acc. to DIN 41 494/ IEC 60 297
Width / horizontal pitch	84 / 42 usable HP / 5,08
Depth of backplane	160, 180, 220, 240 mm (Nominal depth)
Attachment of plug-in connector	M 2,5 as grid of 5,08 mm for plug-in connectors acc. to DIN 41 612, VG 95 324, IEC 60 603-2
Materials	screws: stainless steel, assembly and threaded strips: steel or stainless steel, other parts: aluminium
Surfaces	aluminium parts: passivated, steel parts zink-cromated and passivated
Protection class	acc. to DIN EN 60529, IP66
Temperature range	-55 to +160 °C
Protective earthing	After assembly all metal parts have an electrically conductive interconnection acc. to VDE 100/12.65, § 6 Nb

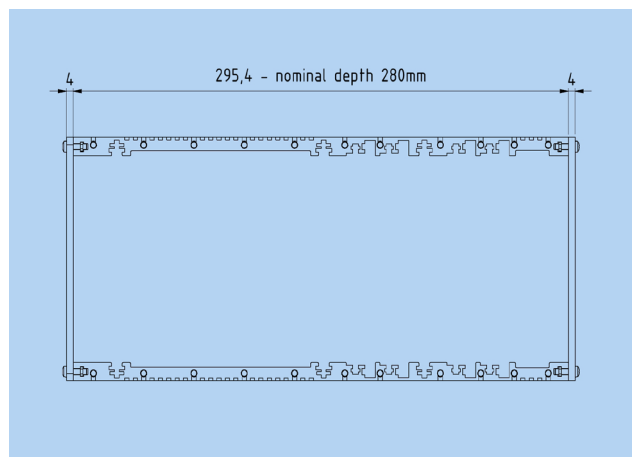
Dimension



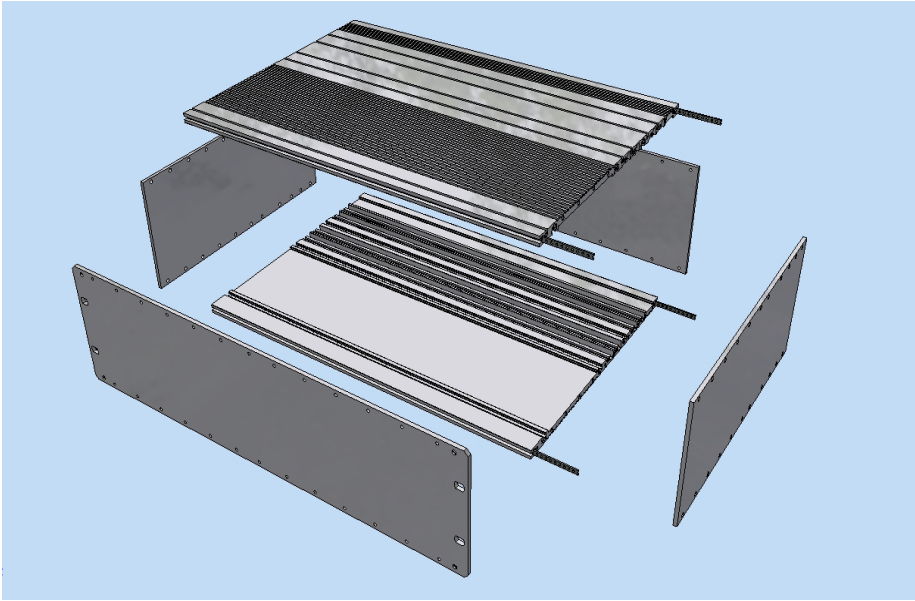
Subrack 3 TE



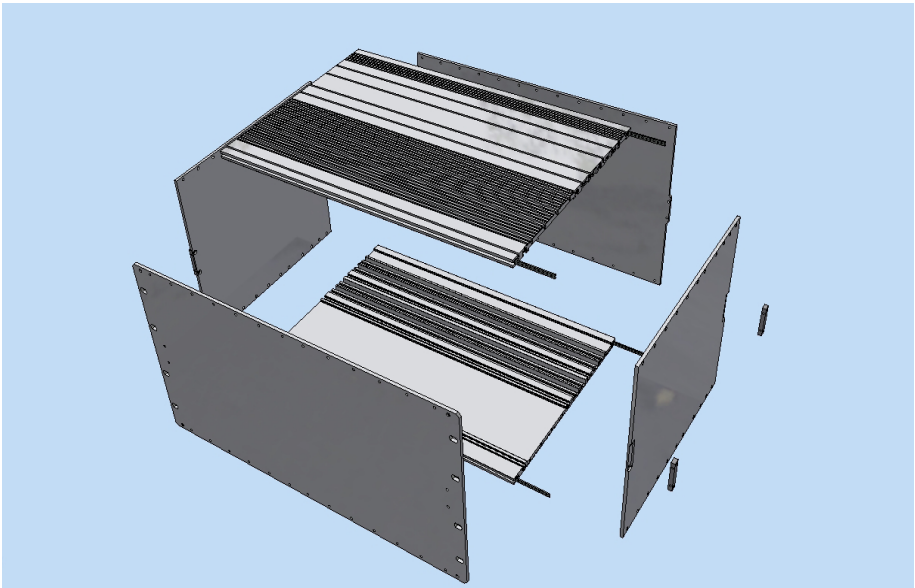
Subrack 6 TE



Depth dimensions of subrack



Subrack 3U



Subrack 6 U

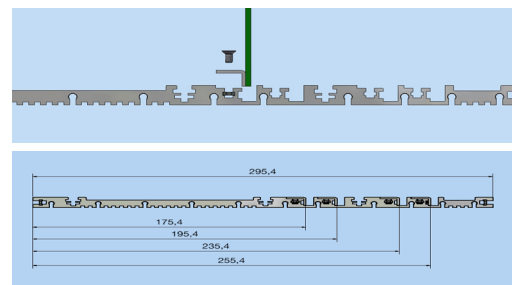
Ordering details for kits

	nom. depth [mm]	order no. 409
3 U - subrack		
42-3-280	280	138802
84-3-280	280	138803
6 U - subrack		
42-6-280	280	138821
84-6-280	280	138822

Delivery

	pieces per kit 3U-42HP	pieces per kit 3U-84HP	pieces per kit 6U-42HP	pieces per kit 6U-84HP
Subrack profile 280	2	2	2	2
Side panel 280	2	2	2	2
Front panel	1	1	1	1
Rear panel	1	1	1	1
Threaded strip	4	4	4	4
Pan-head screw M3x12	28	52	36	60
Pan-head screw M4x16	44	44	44	44
Connector 6U	-	-	4	4
Countersunk scw M3x6	-	-	8	8

Sealings are not included. They must be ordered in accordance to your application and requirements.
Further details and possibilities of other applications can be found in the chapter Subrack-Accessories



Kit for backplane fixing bar

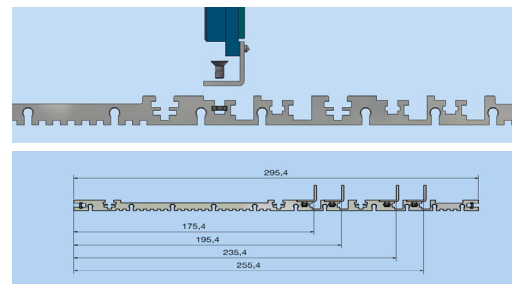
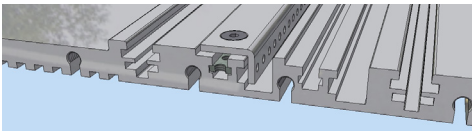
Material: aluminium
Finish: passivated (TCP)

Scope of delivery:

2 backplane fixing bars
2 treaded strips
Fixing screws

Ordering details for kits

	order no. 409
Backplane-fixing bars 42HP	138976
Backplane-fixing bars 84HP	138977



Kit for pin assignment

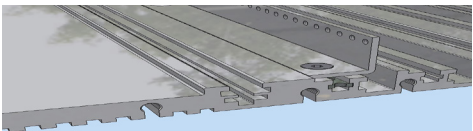
Material: aluminium
Finish: passivated (TCP)

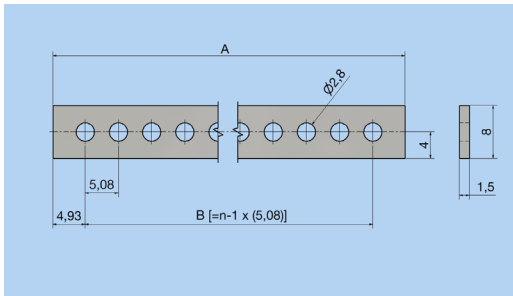
Scope of delivery:

2 connector fixing
2 treaded strips
Fixing screws

Ordering details for kits

	order no. 409
connector fixing 42HP	138978
connector fixing 84HP	138979





Mounting strip for snap-in card guide

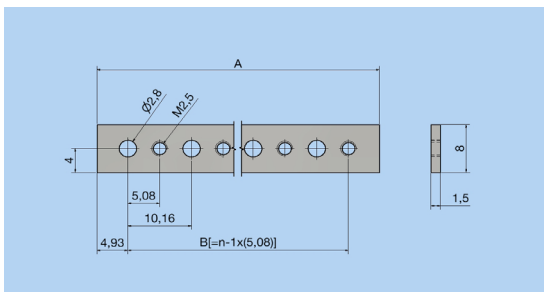
Material: steel or stainless steel
Finish: electrogalvanized, passivated resp. stainless steel blank

Every card guide section requires 4 assembly strips.

Ordering details for kits snap-in

n = number of holes	A [mm].	B [mm]	steel order no. 409	stainless steel order no. 409
42	218,14	202,28	138811	138872
84	431,50	421,64	138812	138873

Other lengths on request.



Mounting strip for screwable card guide

Material: steel or stainless steel
Finish: electrogalvanized, passivated resp. stainless steel blank

Every card guide section requires 4 assembly strips.

Ordering details for kits screwable

n = number of holes	A [mm].	B [mm]	steel order no. 409	stainless steel order no. 409
42	218,14	202,28	138870	138874
84	431,50	421,64	138871	138875

Other lengths on request.

Subrack *InterProtect*[®] Sealing

Ordering details for kits

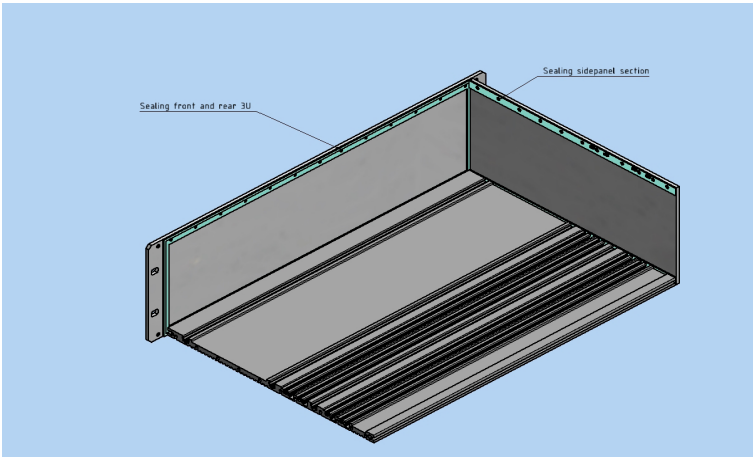
Sealing kit	Sealing kit IP *	Sealing kit IP/EMV **
	order no.	order no.
	409	409
3U-42HP	138905	138906
3U-84HP	138908	138909
6U-42HP	138911	138912
6U-84HP	138914	138915

* Sealings are made of silicone / ** Sealings are made of silicone filled with particles of nickel-plated graphite.

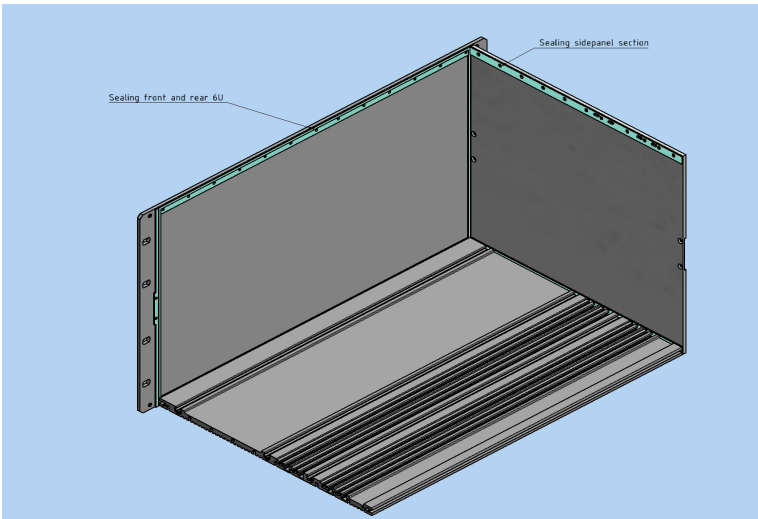
Scope of dedelivery:

- 2 Sealing right and left
- 2 Sealing left and right
- 2 Sealing F/R

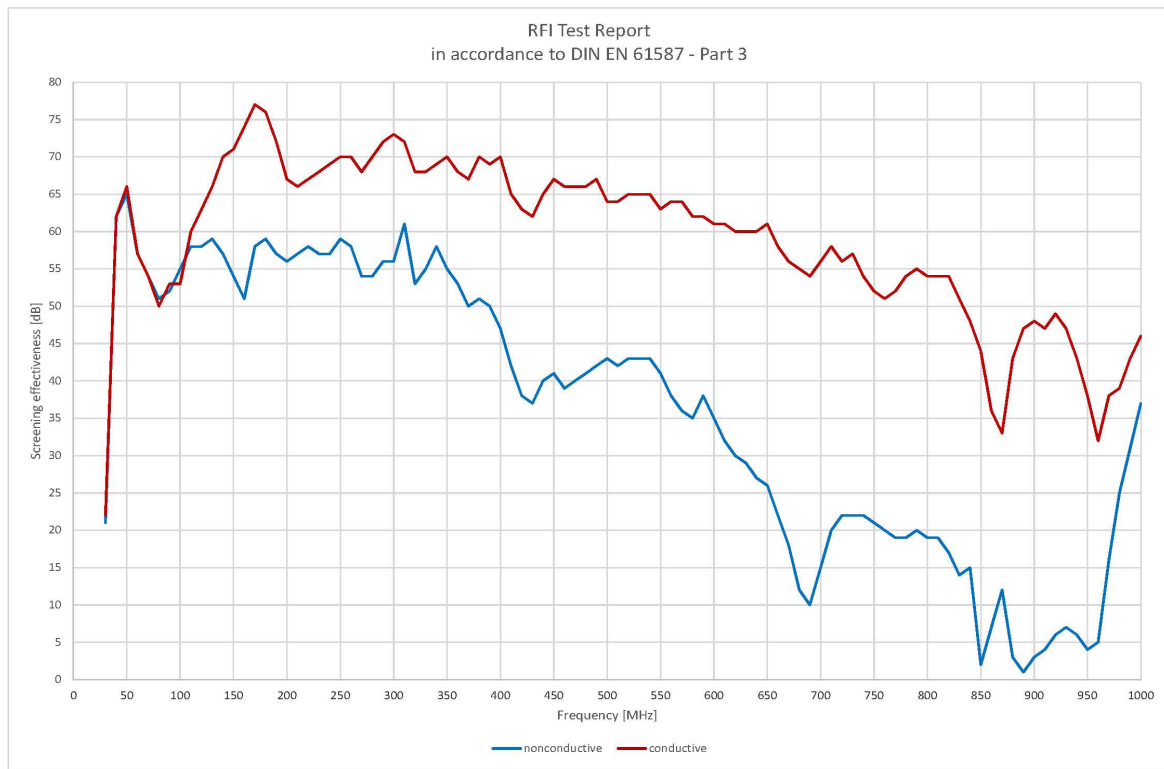
Realisation of the shielding



Subrack 3U



Subrack 6U



Shielding efficienc depends on the material of the used sealing material.

Shielding effectiveness:

The shielding effectiveness of the empty subrack was determined in accordance with DIN EN 61 587-Part 3.

Testing institute:

The measurements were performed at *hummel electronic* in Fellbach, Germany.

Test specimen 1

This subrack was equipped with sealings made of silicone, filled with particles of nickel-plated graphite.

Test specimen 2

This subrack was equipped with sealings made of silicone.

Subrack configuration *InterProtect*®

Subrack

Configuration module

<input type="checkbox"/> Subrack	piece _____
Dimensions	height: <input type="checkbox"/> 3 U <input type="checkbox"/> 6 U <input type="checkbox"/> other _____ U width: <input type="checkbox"/> 84 HP <input type="checkbox"/> 42 HP <input type="checkbox"/> other _____ HP depth: <input type="checkbox"/> 280 mm
Backplane	<input type="checkbox"/> CPU number of slots _____ <input type="checkbox"/> J1 VME number of slots _____ <input type="checkbox"/> J1/J2 Monolithic VME number of slots _____ <input type="checkbox"/> VME64x number of slots _____ <input type="checkbox"/> CPCI number of slots _____ Systemslot: <input type="checkbox"/> right <input type="checkbox"/> left width Systemslot: <input type="checkbox"/> 4 HP <input type="checkbox"/> 8 HP
Depth of PCB:	<input type="checkbox"/> 160 mm <input type="checkbox"/> 180 mm <input type="checkbox"/> 220 mm <input type="checkbox"/> 240 mm
Accessories:	<input type="checkbox"/> Backplane-mounting bracket <input type="checkbox"/> Connector fixing <input type="checkbox"/> Installation strip: card strip snap-in <input type="checkbox"/> Installation strip: card strip screwable <input type="checkbox"/> Sealing: <input type="checkbox"/> Silicone <input type="checkbox"/> Silicone with particles of nickel-plated graphite
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