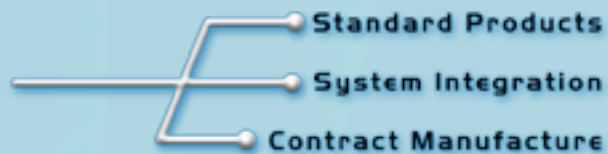


VEROTEC

Electronics Packaging



KM6-RF Subracks

Introduction: KM6-RF subrack systems

CompactPCI, PXI AND VME64X COMPATIBLE

KM6-RF SUBRACK

This subrack, an evolution of our successful KM6 range, has been designed to EMC shield electronics systems which operate especially in the higher end of the frequency spectrum.

Building on our experience with KM6-II, the first commercially available standard subrack system with a truly retrofit EMC capability, KM6-RF incorporates a number of features which provide additional configuration possibilities whilst addressing the latest mechanical standards.

IEC60297-3 AND IEEE1101.10 /11COMPATIBLE

IEEE 1101.10/11 introduces some refinements to the existing IEC 60297 standards as they apply to subracks and EMC front panels:

The geometry of EMC panels and related seals is constrained to ensure interchangeability between manufacturers' offerings.

A front panel injector/extractor is introduced to help overcome the increased insertion/withdrawal forces encountered in the use of Metric and five row DIN connectors which are gaining ground especially in advanced bus systems such as VME64x and CompactPCI®. Along with this handle goes an operating 'lip' on the front extrusions and a system for coding and ESD grounding.

Features

- Higher level EMC applications
- Complete kit delivered
- Heavy duty upgrades

KM6-RF SUBRACK - CONSTRUCTION

Style A

Version with PCB depth ventilated EMC covers (rear cover shell optional)
This version can be used where the backplane forms part of the EMC screen or where it is required to separately enclose the rear wiring area.

Style B

Version with overall ventilated EMC covers and one-piece rear closing panel
Provides a complete enclosure with a removable rear panel suitable for carrying interface connectors.

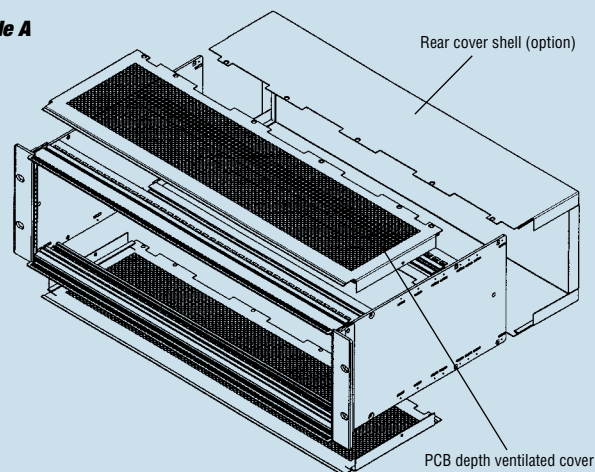
Style C – with rear transition IEEE 1101.11

Version with interlocking PCB depth covers that span front and rear transition areas. This version is configured from various kits dependent upon the PCB sizes being utilised.

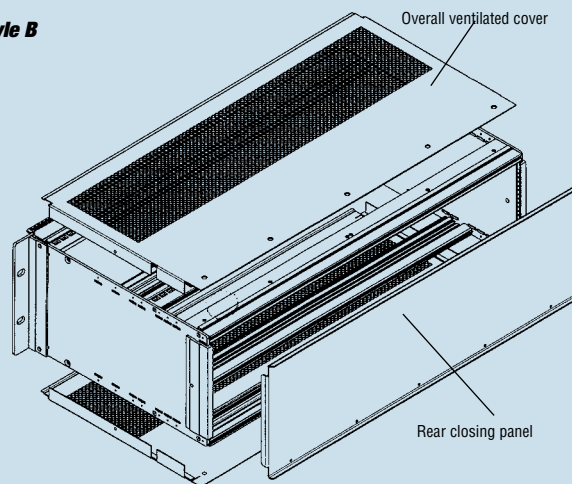


KM6-RF 3U subrack – Style C

Style A



Style B



Introduction: KM6-RF subrack systems

KM6-RF SUBRACKS

KM6-RF is compatible with IEC 297-3 and DIN 41494, so it will accept the existing range of guides, front panel and plug-in units. It has, however, a new design of extruded EMC front panel and contact fingers designed to the latest industry standards (IEEE 1101.10) to minimise intrusion into the PCB area.

Our KM6-RF range complies to the latest PICMG specifications and is, therefore, ideally suited to CompactPCI, PXI and VME64x system builds.

ACCESSORIES

A wide range of accessories add to the versatility of the KM6-RF system. In addition to the subracks, piece parts, guides etc., there is a comprehensive range of compatible panels and plug-in units to address the requirements of both EMC and non-EMC applications.

EXTRUSION OPTIONS

Further variations within these three basic styles concern the choices of front and backplane extrusion.

EMC PERFORMANCE GRAPH

The graph shows results obtained from testing an empty style B 6U x 84HP x 300 with overall ventilated top and bottom covers, full rear closing panel and front panels

The test was carried out in our own test facility. Details of the method of testing and interpretation can be found in our leaflet 'The Science of Compliance' a copy of which is available on request.

CUSTOMISING SERVICE

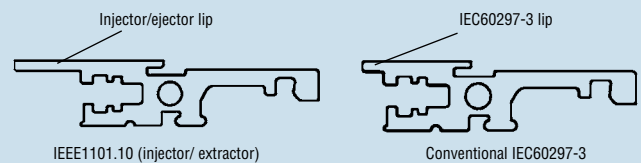
Verotec has many years of experience in the design and production of customised subracks. Most of our subrack systems are easily modified in order to suit a wide range of applications, and our customising experience is probably unsurpassed in the industry.

Please contact your local sales engineer, or our Applications Specialists, who will be pleased to offer further advice and assistance.

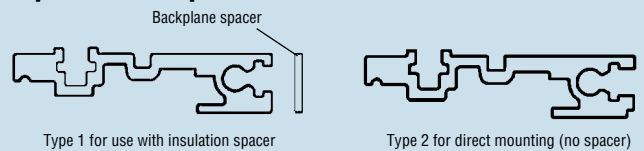


KM6-RF subrack

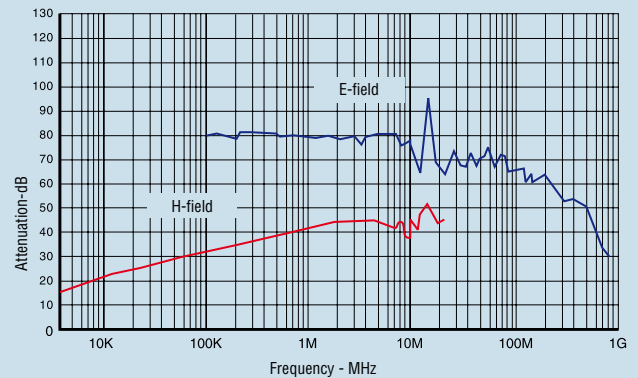
Front extrusion options



Backplane extrusion options



KM6-RF EMC performance graph



KM6-RF Subrack: Introduction to rear plug-up – Style C

COMPATIBLE WITH IEEE1101.10 AND .11 FOR CompactPCI, PXI AND VME64X SYSTEMS

The IEEE1101.11 standard is a further extension of the core specification – IEEE1101.1 – which embraces both IEC60297-3 and IEEE1101.10.

IEEE1101.11 standardises and sets out the geometry for the rear plug-up (transition) area of a subrack where previously no standard existed.

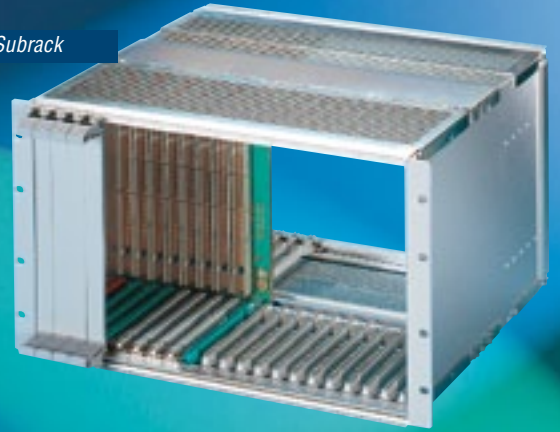
Rear plug-up - or transition - is used and required within the core specifications of major open-architecture bus structures where a midplane is used to provide a rear I/O interface. This transition formalises the mechanical interface between front and rear plug-up cards or modules based on the Eurocard format.

Verotec's KM6-RF range of subracks, featured on the following pages, integrates both the IEEE1101.10 and .11 specifications and adopts the inline card principle to provide the high level of EMC attenuation required in modern electronic systems.

The basic KM6-RF frame combinations, together with an extensive range of accessories, have been developed to cover most popular subrack sizes and rear I/O requirements and enable the end-user to tailor the finished subrack to suit the specific needs of the application.

Should further assistance, or advice on a non-standard, unlisted configuration, be required please contact our sales office or our applications specialists.

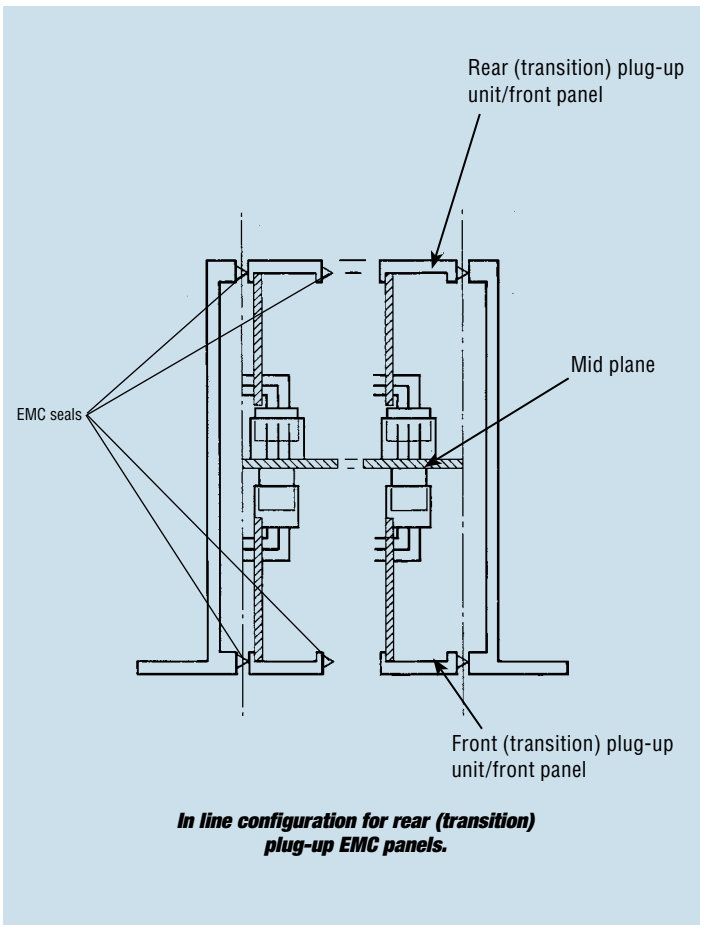
6U KM6-RF Subrack



3U KM6-RF Subrack



KM6-RF Subracks – Style C with rear plug-up (transition) area



TYPE 2 BACKPLANE EXTRUSIONS

FEATURES

- Extended front lip for injector/extractor
- 240, 300 and 360mm depths
- Complete kit delivery
- Heavy duty upgrade available
- Quick assembly

CONTENTS OF KIT

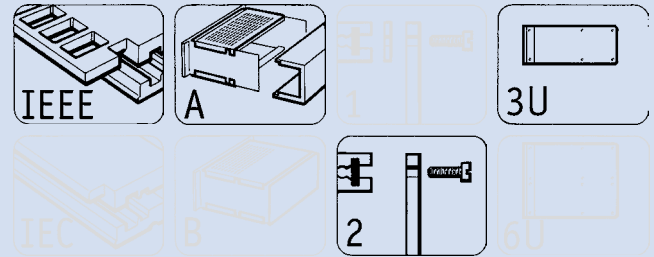
Key	Description	Qty.	Material/Finish
1	End plates	2	Al alloy 2,5, Clear chromate
2	End plate angles	2	Al extrusion, Clear chromate
3	Vertical EMC finger strip	1	Stainless steel, Natural
4	Front extrusions IEEE1101.10	2	Al extrusion, Clear chromate
5	Type 2 backplane extrusions	2	Al extrusion, Clear chromate
6	EMC covers, ventilated pcb length	2	Mild steel 0,8mm CR4, Zinc plate and clear passivated
7	Tapped strips	6	Mild steel, Zinc plate and colour passivated
8	Fabric cover seals*		Copper nickel over closed cell foam

Fixings and assembly instructions

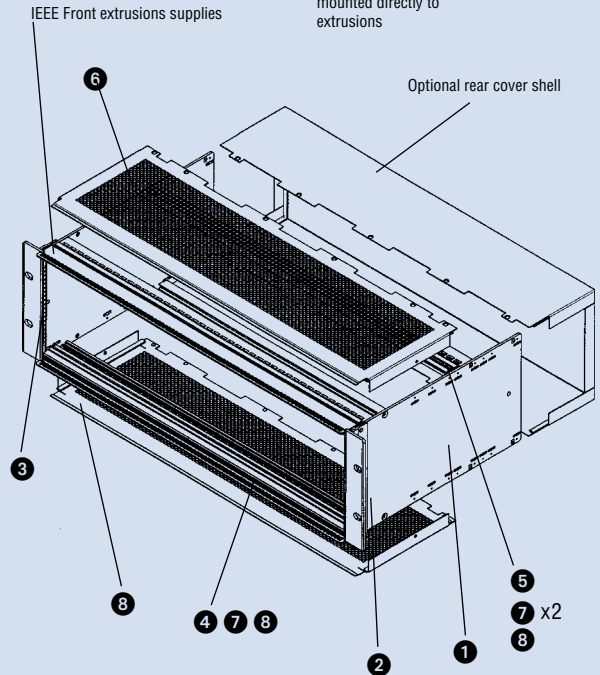
*Note: supplied fitted to covers and extrusions

ORDERING INFORMATION

Nominal overall dimensions			Suitable for	Order code
Height	Width	Depth	Eurocard depth	
3U	84HP	240	160	959-267639
		300	160	959-267651
		300	220	959-267643
		360	220	959-267653

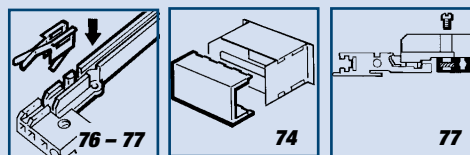


Type 2: Backplane mounted directly to extrusions



KM6-RF Subrack IEEE1101.10 style A - 3U

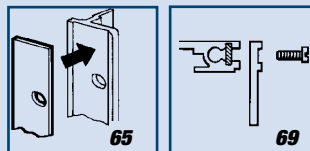
Order separately



Guides, ESD clips, coding

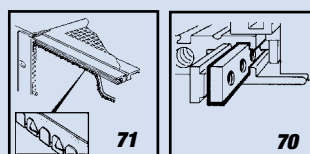
Rear cover shell

Heavy-duty upgrade



19" and ETSI Rack mounting angles and overlays

DIN 41612 connector mounting



Front horizontal EMC finger strips

Front panel pre-location strips and tapped strips

TYPE 2 BACKPLANE EXTRUSIONS

FEATURES

- Conventional front lip
- 240, 300 and 360mm depths
- Complete kit delivery
- Heavy duty upgrade available
- Quick assembly

CONTENTS OF KIT

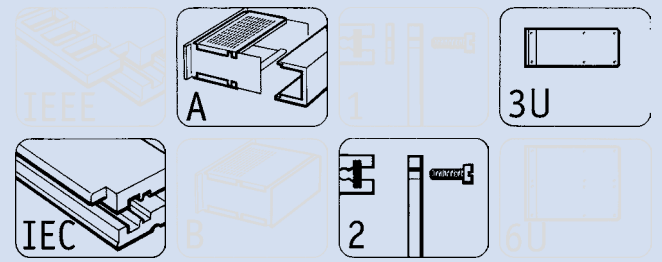
Key	Description	Qty.	Material/Finish
1	End plates	2	Al alloy 2,5, Clear chromate
2	End plate angles	2	Al extrusion, Clear chromate
3	Vertical emc finger strip	1	Stainless steel, Natural
4	Front extrusions IEC 60297-3	2	Al extrusion, Clear chromate
5	Type 2 backplane extrusions	2	Al extrusion, Clear chromate
6	EMC covers, ventilated pcb length	2	Mild steel 0,8mm CR4, Zinc plate and clear passivated
7	Tapped strips	6	Mild steel, Zinc plate and colour passivated
8	Fabric cover seals*		Copper nickel over closed cell foam

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

ORDERING INFORMATION

Nominal overall dimensions Suitable for			Order	
Height	Width	Depth	Eurocard depth	code
3U 84HP		240	160	959-262246
		300	160	959-262279
		300	220	959-262248
		360	220	959-262281

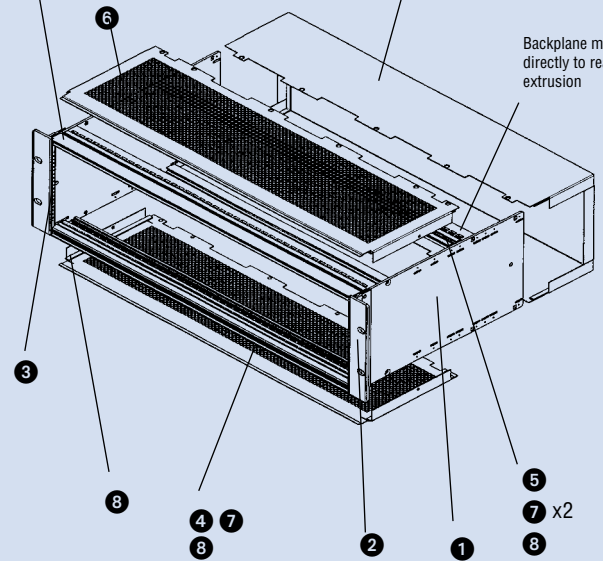


IEC Front extrusion supplied

Type 2: Backplane mounted directly to extrusions

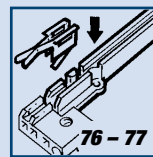
Optional rear cover shell

Backplane mounted directly to rear extrusion

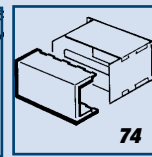


KM6-RF Subrack IEC60297-3 style A - 3U

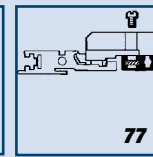
Order separately



Guides, ESD clips, coding



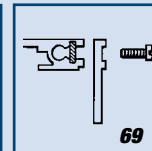
Rear cover shell



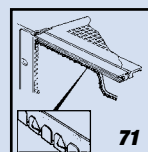
Heavy-duty upgrade



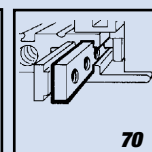
19" and ETSI Rack mounting angles and overlays



DIN 41612 connector mounting



Front horizontal EMC finger strips



Front panel pre-location strips and tapped strips

TYPE 1 AND TYPE 2 BACKPLANE EXTRUSIONS

FEATURES

- Extended front lip for injector/extractor
- 240, 300 and 360mm depths
- Complete kit delivery including insulating spacers and rear panel
- Heavy duty upgrade available
- Quick assembly

CONTENTS OF KIT

Key	Description	Qty.	Material/Finish
1	End plates	2	Al alloy 2,5, Clear chromate
2	End plate angles, 19"	2	Al extrusion, Clear chromate
3	Vertical emc finger strip	3	Stainless steel, Natural
4	Front extrusions IEEE1101.10	2	Al extrusion, Clear chromate
5	Type 1 or 2 backplane extrusions	2	Al extrusion, Clear chromate
6	Insulating spacers, type 1 subracks	2	1mm PVC UL94 V0, Grey
7	Overall EMC covers, ventilated	2	Mild steel 0,8mm CR4, Zinc plate and clear passivated
8	Rear closing angles	2	Al extrusion, Clear chromate
9	Overall rear closing panel	1	Al alloy 1,2, Clear chromate
10	Tapped strips	6	Mild steel, Zinc plate and colour passivated
11	Rear extrusions	2	Al extrusion, Clear chromate
12	Fabric cover seals*		Copper nickel over closed cell foam

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

ORDERING INFORMATION

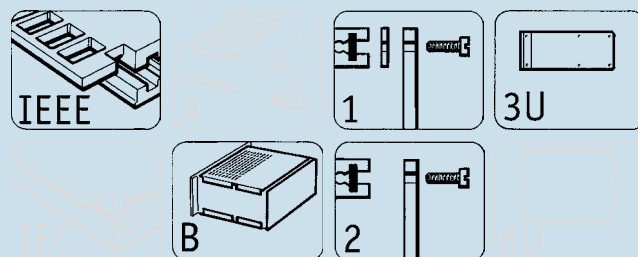
Description: Backplane extrusions

Type 1 - requires backplane spacers (insulation strips supplied)

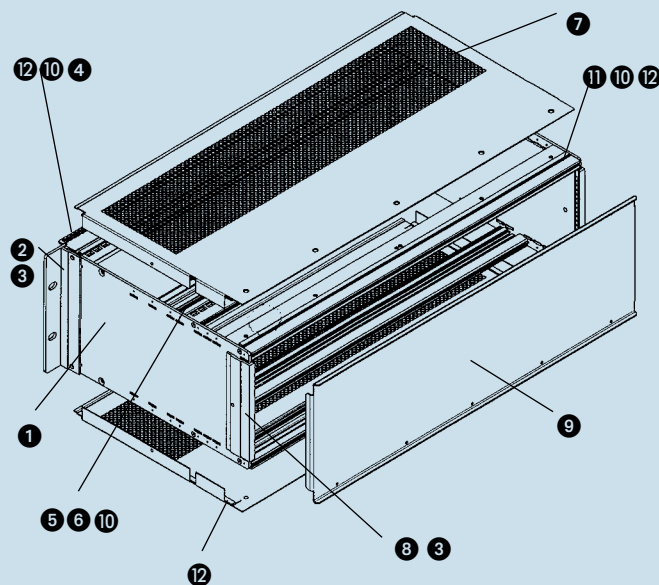
Nominal overall dimensions Suitable for				Order code
Height	Width	Depth	Eurocard depth	
		240	160	959-267632
3U	84HP	300	160 or 220	959-267633
		360	160 or 220	959-267634

Type 2 - backplane mounted directly to rear extrusion

Nominal overall dimensions Suitable for				Order code
Height	Width	Depth	Eurocard depth	
		240	160	959-267645
3U	84HP	300	160 or 220	959-267646
		360	160 or 220	959-267647

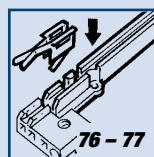


Type 1: Backplane spacers required
Type 2: Backplane mounted directly to extrusions

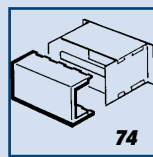


KM6-RF Subrack IEEE1101.10 style B - 3U

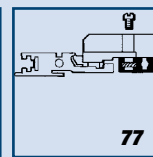
Order separately



Guides, ESD clips, coding



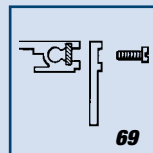
Rear cover shell



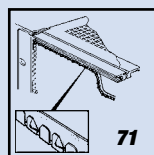
Heavy-duty upgrade



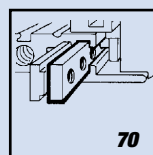
19" and ETSI Rack mounting angles and overlays



DIN 41612 connector mounting



Front horizontal EMC finger strips



Front panel pre-location strips and tapped strips

TYPE 1 AND TYPE 2 BACKPLANE EXTRUSIONS

FEATURES

- Conventional front lip
- 240, 300 and 360mm depths
- Complete kit delivery including insulating spacers (type 1 only) and rear panel
- Heavy duty upgrade available
- Quick assembly

CONTENTS OF KIT

Key	Description	Qty.	Material/Finish
1	End plates	2	Al alloy 2,5, Clear chromate
2	End plate angles	2	Al extrusion, Clear chromate
3	Vertical emc finger strip	3	Stainless steel, Natural
4	Front extrusions IEC60297-3	2	Al extrusion, Clear chromate
5	Type 1 or 2 backplane extrusions	2	Al extrusion, Clear chromate
6	Insulating spacers	2	1mm PVC UL94 V0, Grey
7	Overall EMC covers, ventilated	2	Mild steel 0,8mm CR4, Zinc plate and clear passivated
8	Rear closing angles	2	Al extrusion, Clear chromate
9	Overall rear closing panel	1	Al alloy 1,2, Clear chromate
10	Tapped strips	6	Mild steel, Zinc plate and colour passivated
11	Rear extrusions	2	Al extrusion, Clear chromate
12	Fabric cover seals*		Copper nickel over closed cell foam

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

ORDERING INFORMATION

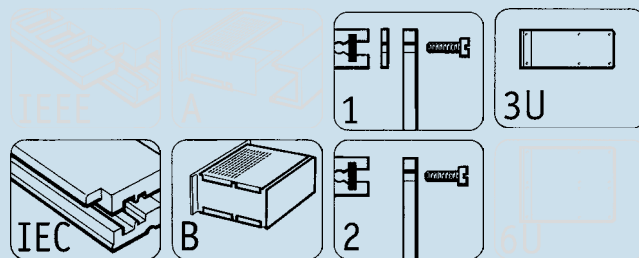
Description: Backplane extrusions

Type 1 - requires backplane spacers (insulation strips supplied)

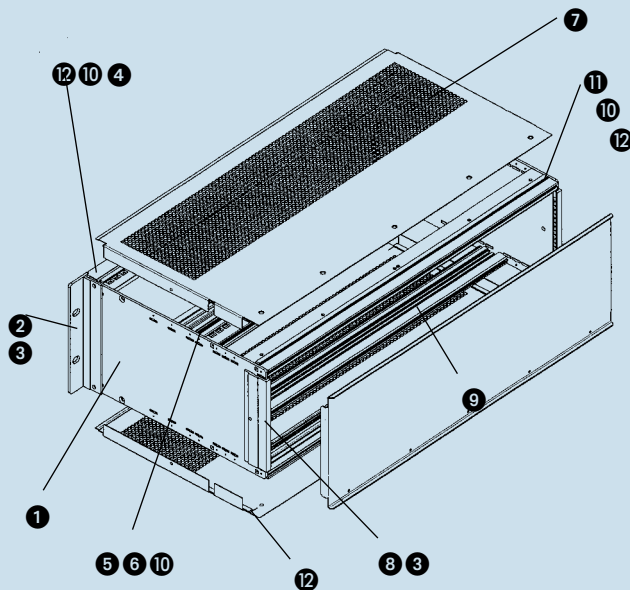
Nominal overall dimensions			Suitable for	Order code
Height	Width	Depth	Eurocard depth	
		240	160	959-262240
3U	84HP	300	160 or 220	959-262241
		360	160 or 220	959-262242

Type 2 - backplane mounted directly to rear extrusion

Nominal overall dimensions			Suitable for	Order code
Height	Width	Depth	Eurocard depth	
3U	42HP	300	160 or 220	959-262238
		240	160	959-262250
3U	84HP	300	160 or 220	959-262251
		360	160 or 220	959-262252

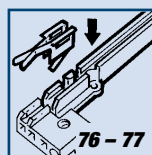


Type 1: Backplane spacers required
Type 2: Backplane mounted directly to extrusions

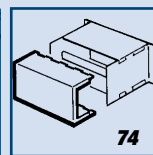


KM6-RF Subrack IEC 60297-3 style B - 3U

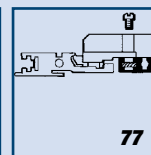
Order separately



Guides, ESD clips, coding



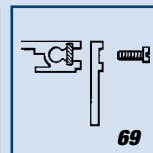
Rear cover shell



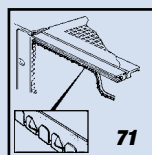
Heavy-duty upgrade



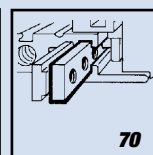
19" and ETSI Rack mounting angles and overlays



DIN 41612 connector mounting



Front horizontal EMC finger strips



Front panel pre-location strips and tapped strips

TYPE 2 BACKPLANE EXTRUSIONS

FEATURES

- Extended front lip for injector/extractor
- 240, 300 and 360mm depths
- Complete kit delivery
- Heavy duty upgrade available
- Quick assembly

CONTENTS OF KIT

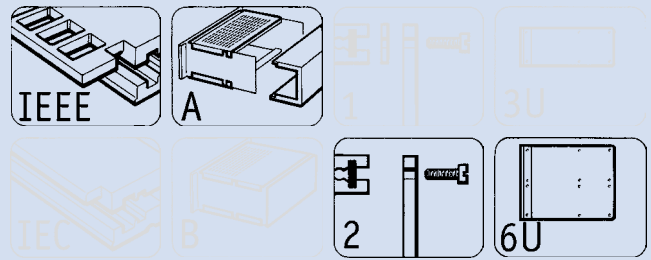
Key	Description	Qty.	Material/Finish
1	End plates	2	Al alloy 2,5, Clear chromate
2	End plate angles	2	Al extrusion, Clear chromate
3	Vertical emc finger strip	2	Stainless steel, Natural
4	Front extrusions IEEE1101.10	2	Al extrusion, Clear chromate
5	Type 2 backplane extrusions	2	Al extrusion, Clear chromate
6	Type 2 centre backplane ext.	1	Al extrusion, Clear chromate
7	EMC covers, ventilated pcb length	2	Mild steel 0,8mm CR4, Zinc plate and clear passivated
8	Tapped strips	8	Mild steel, Zinc plate and colour passivated
9	Fabric cover seals*		Copper nickel over closed cell foam

Fixings and assembly instructions

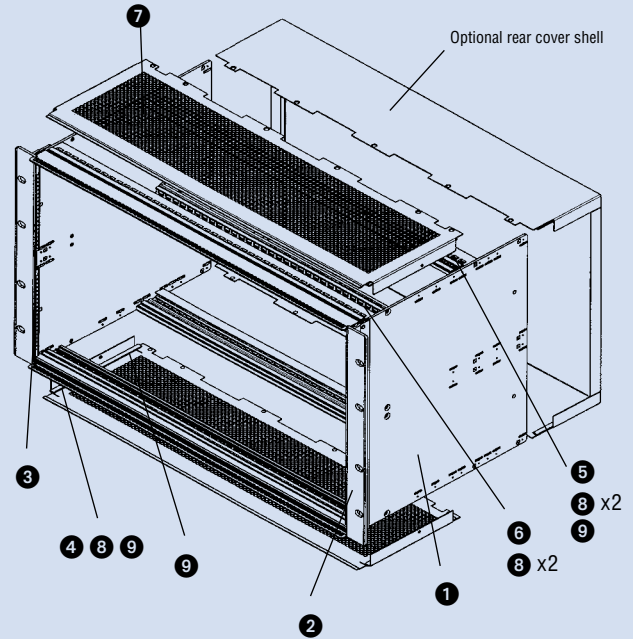
* Note: supplied fitted to covers and extrusions

ORDERING INFORMATION

Nominal overall dimensions			Suitable for	Order
Height	Width	Depth	Eurocard depth	code
6U	84HP	240	160	959-267641
		300	160	959-267652
		300	220	959-267644
		360	220	959-267654

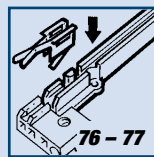


Type 2: Backplane mounted directly to extrusions

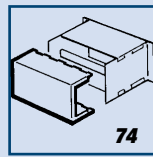


KM6-RF Subrack IEEE1101.10 style A - 6U

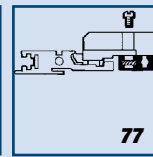
Order separately



Guides, ESD clips, coding



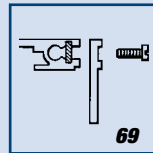
Rear cover shell



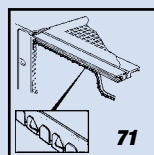
Heavy-duty upgrade



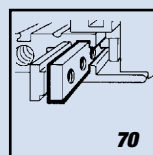
19" and ETSI Rack mounting angles and overlays



DIN 41612 connector mounting



Front horizontal EMC finger strips



Front panel pre-location strips and tapped strips

TYPE 2 BACKPLANE EXTRUSIONS

FEATURES

- Conventional front lip
- 240, 300 and 360mm depths
- Complete kit delivery
- Heavy duty upgrade available
- Quick assembly

CONTENTS OF KIT

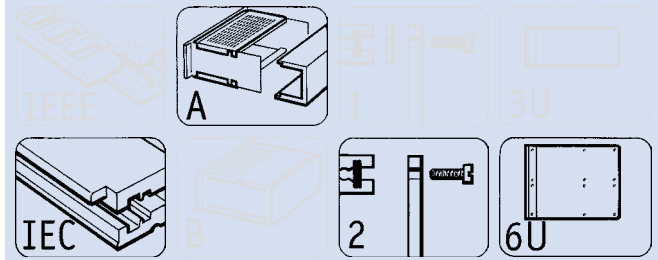
Key	Description	Qty.	Material/Finish
1	End plates	2	Al alloy 2,5, Clear chromate
2	End plate angles	2	Al extrusion, Clear chromate
3	Vertical emc finger strip	2	Stainless steel, Natural
4	Front extrusions IEC 60297-3	2	Al extrusion, Clear chromate
5	Type 2 backplane extrusions	2	Al extrusion, Clear chromate
6	Type 2 centre backplane ext.	1	Al extrusion, Clear chromate
7	EMC covers, ventilated, of pcb length	2	Mild steel 0,8mm CR4, Zinc plate and clear passivated
8	Tapped strips	8	Mild steel Zinc plate and colour passivated
9	Fabric cover seals*		Copper nickel over closed cell, foam

Fixings and assembly instructions

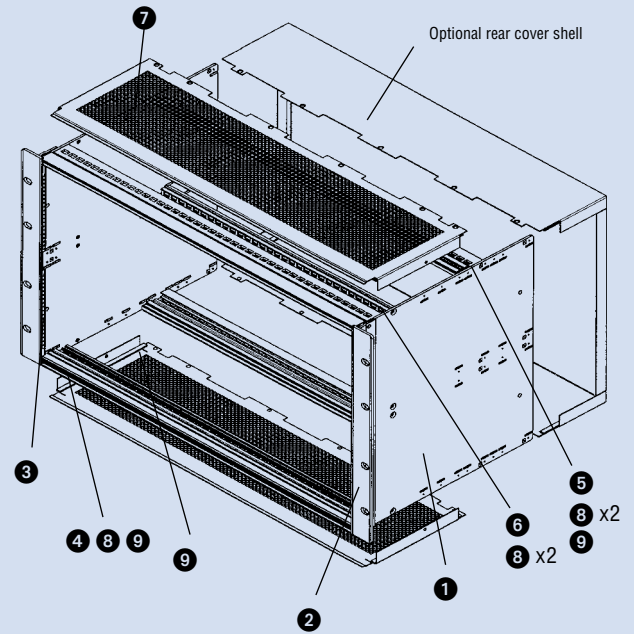
*Note: supplied fitted to covers and extrusions

ORDERING INFORMATION

Nominal overall dimensions			Suitable for	Order code
Height	Width	Depth	Eurocard depth	
6U	84HP	240	160	959-262247
		300	160	959-262280
		300	220	959-262249
		360	220	959-262282

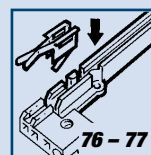


Type 2: Backplane mounted directly to extrusions

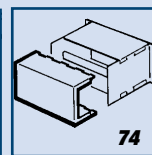


KM6-RF Subrack IEC 60297-3 style A - 6U

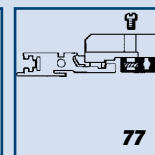
Order separately



Guides, ESD clips, coding



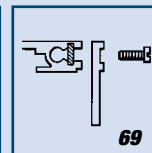
Rear cover shell



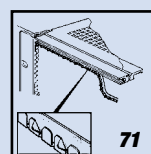
Heavy-duty upgrade



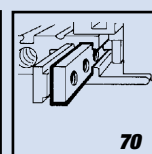
19" and ETSI Rack mounting angles and overlays



DIN 41612 connector mounting



Front horizontal EMC finger strips



Front panel pre-location strips and tapped strips

TYPE 1 AND TYPE 2 BACKPLANE EXTRUSIONS

FEATURES

- Extended front lip for injector/extractor
- 240, 300 and 360mm depths
- Complete kit delivery including insulation spacers and rear closing panel
- Heavy duty upgrade available
- Quick assembly

CONTENTS OF KIT

Key	Description	Qty.	Material/Finish
1	End plates	2	Al alloy 2,5, Clear chromate
2	End plate angles	2	Al extrusion, Clear chromate
3	Vertical emc finger strip	4	Stainless steel, Natural
4	Front extrusions IEEE1101.10	2	Al extrusion, Clear chromate
5	Type 1 or 2 backplane extrusions	2	Al extrusion, Clear chromate
6	Type 1 or 2 centre backplane ext.	1	Al extrusion, Clear chromate
7	Single level insulating spacers type 1 frames only	2	1mm PVC UL94 V0, Grey
8	Two level insulating spacer type 1 frames only	1	1mm PVC UL94 V0, Grey
9	Overall EMC, covers, ventilated	2	Mild steel 0,8mm CR4, Zinc plate and clear passivated
10	Tapped strips	8	Mild steel, Zinc plate and colour passivated
11	Rear extrusions	2	Al extrusion, Clear chromate
12	Fabric cover seals*		Copper nickel over closed cell foam
13	Rear closing angles	2	Al extrusion, Clear chromate
14	Overall closing panel	1	Al alloy 2,5, Clear chromate
Fixings and assembly instructions			

*Note: supplied fitted to covers and extrusions

ORDERING INFORMATION

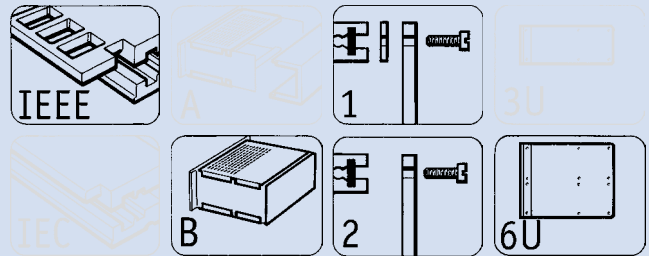
Description: Backplanes extrusions

Type 1 - requires backplane spacers (insulation strips supplied)

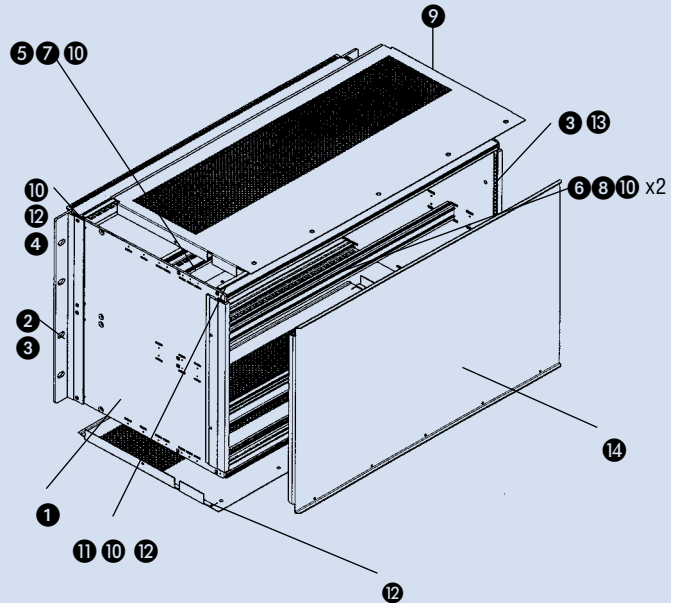
Nominal overall dimensions		Suitable for		Order code
Height	Width	Depth	Eurocard depth	
6U	84HP	240	160	959-267635
		300	160 or 220	959-267636
		360	160 or 220	959-267637

Type 2 - backplane mounted directly to rear extrusion

Nominal overall dimensions		Suitable for		Order code
Height	Width	Depth	Eurocard depth	
6U	84HP	240	160	959-267648
		300	160 or 220	959-267649
		360	160 or 220	959-267650

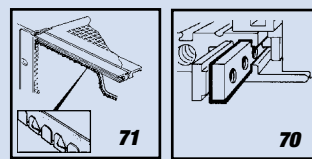
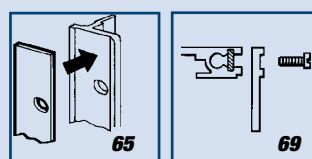
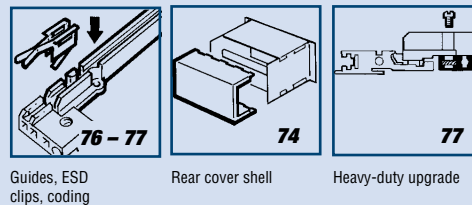


Type 1: Backplane spacers required
Type 2: Backplane mounted directly to extrusions



KM6-RF Subrack IEEE1101.10 style B - 6U

Order separately



KM6-RF Subrack: 6U style B - IEC60297-3

TYPE 1 OR TYPE 2 BACKPLANE EXTRUSIONS

FEATURES

- Conventional front lip
- 240, 300 and 360mm depths
- Complete kit delivery including insulation spacers and rear closing panel
- Heavy duty upgrade available
- Ⓜ Quick assembly

CONTENTS OF KIT

Key	Description	Qty.	Material/Finish
1	End plates	2	Al alloy 2,5, Clear chromate
2	End plate angles	2	Al extrusion, Clear chromate
3	Vertical emc finger strip	4	Stainless steel, Natural
4	Front extrusions IEC 60297-3	2	Al extrusion, Clear chromate
5	Type 1 or 2 backplane extrusions	2	Al extrusion, Clear chromate
6	Type 1 or 2 centre backplane ext.	1	Al extrusion, Clear chromate
7	Single level insulating spacers	2	1mm PVC UL94 V0, Grey
8	Two level insulating spacer	1	1mm PVC UL94 V0, Grey
9	Overall EMC, covers, ventilated	2	Mild steel 0,8mm CR4, Zinc plate and clear passivated
10	Tapped strips	8	Mild steel, Zinc plate and colour passivated
11	Rear extrusions	2	Al extrusion, Clear chromate
12	Fabric cover seals*		Copper nickel over closed cell foam
13	Rear closing angles	2	Al extrusion, Clear chromate
14	Overall closing panel	1	Al alloy 2,5, Clear chromate

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

ORDERING INFORMATION

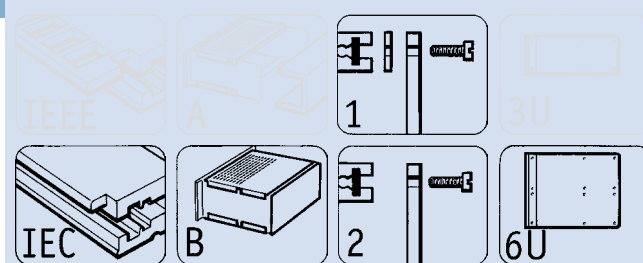
Description: Backplane extrusions

Type 1 - requires backplane spacers (insulation strips supplied)

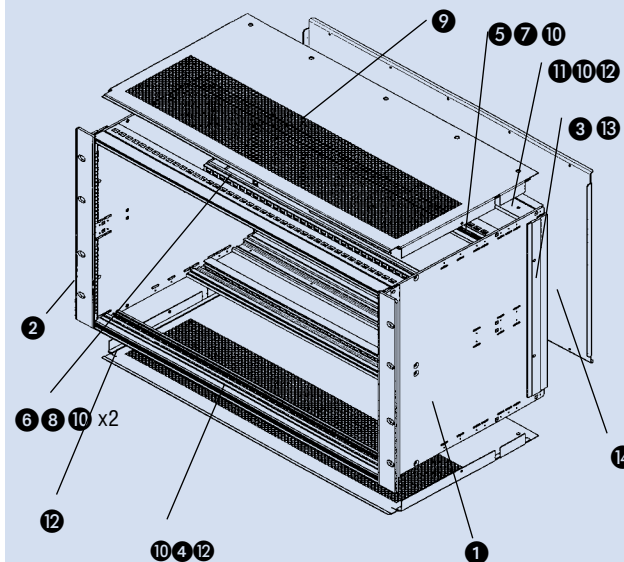
Nominal overall dimensions			Suitable for	Order code
Height	Width	Depth	Eurocard depth	
		240	160	959-262243
6U	84HP	300	160 or 220	959-262244
		360	160 or 220	959-262245

Type 2 - backplane mounted directly to rear extrusion

Nominal overall dimensions			Suitable for	Order code
Height	Width	Depth	Eurocard depth	
		240	160	959-262253
6U	84HP	300	160 or 220	959-262254
		360	160 or 220	959-262255

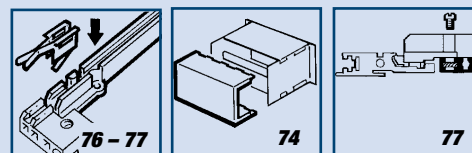


Type 1: Backplane spacers required
Type 2: Backplane mounted directly to extrusions



KM6-RF Subrack IEC60297-3 style B - 6U

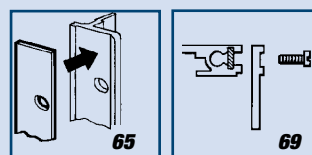
Order separately



Guides, ESD clips, coding

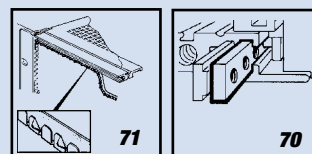
Rear cover shell

Heavy-duty upgrade



19" and ETSI Rack mounting angles and overlays

DIN 41612 connector mounting



Front horizontal EMC finger strips

Front panel pre-location strips and tapped strips

TYPE 1 OR TYPE 2 MIDPLANE EXTRUSIONS

In order to meet the various rear plug-up options expressed under IEEE1101.11, a number of kits are available capable of housing 160mm Eurocards at the front.

FEATURES

- Rear plug-up version
- 160mm front, various rear geometries
- Full 1101.11 compatibility
- EMC screening

For the selection of suitable parts, please see the table on the following page. Other variations are available as specials - please contact our sales office or our applications specialists **Contents of kit**

BASIC FRAME

Key	Description	Qty.	Material/Finish
●	End plate angles	2	Al extrusion, clear chromate
●	Rear closing angles	2	Al extrusion, clear chromate
●	Vertical EMC fingers		Stainless steel
④	IEEE1101.10 extrusions	4	Al extrusion, clear chromate
⑤	Tapped strips	8	Steel ,Zinc plate and colour passivate
●	Top/bottom covers, 160 PCB type (front only)	2	Steel 0,8mm CR4 Zinc plate and clear passivate
⑥	Fabric EMC seals		Copper nickel over closed cell foam

Fixings and assembly instructions

- ⑦ According to the variant selected, the kit will also include an appropriate combination of 4 x mid rear extrusions, with or without insulation spacers.

END PLATES

①	Pack of 20, or single end plates		Al alloy 2,5mm, Clear chromate
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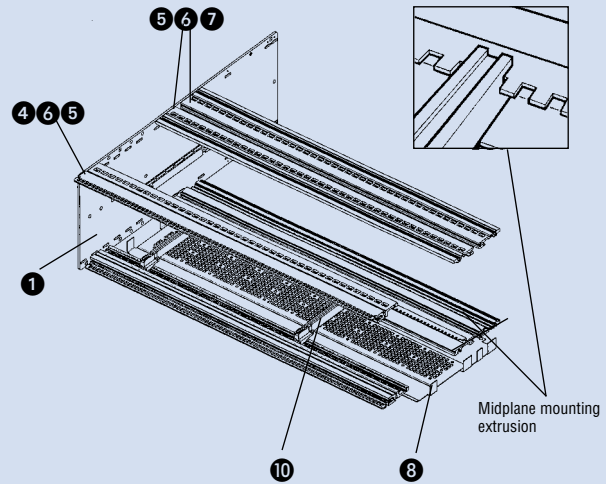
EMC REAR SECTION

⑧	EMC rear section covers	1 or pk.20	Steel 0,8mm CR4, Zinc plate and clear passivate
---	-------------------------	------------	---

Suitable fabric seals and fixings

GUIDES

⑩	160 and 100mm types	pk.10	Luranyl 2452/1 green (UL94-V1) or Noryl HE185 grey (UL94-V0)
	60, 80, 120, 140mm types	pk.100	Noryl HE185 grey (UL94-V0)

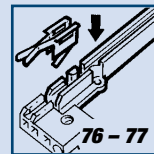


Partial details only

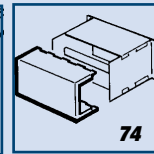
- = Not shown, see previous pages for typical examples.

Rear plug up components for IEEE 1101.11 applications

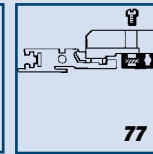
Order separately



Guides, ESD clips, coding



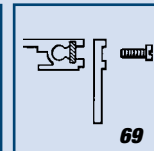
Rear cover shell



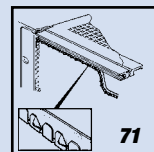
Heavy-duty upgrade



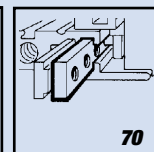
19" and ETSI Rack mounting angles and overlays



DIN 41612 connector mounting



Front horizontal EMC finger strips



Front panel pre-location strips and tapped strips

TYPE 1 OR TYPE 2 MIDPLANE EXTRUSIONS

You will need to select kits as follows

- Step 1** A suitable basic kit (A or B) is selected by the final assembly configuration (height, plug-up geometry) and whether the midplane is to be mounted with insulation spacers (Type 1) or direct to the extrusion (Type 2).
This basic kit contains all parts necessary to construct a basic framework except end plates and rear EMC top and bottom covers.
- Step 2** The end plates (C) are selected according to height and the front/rear plug-up combination
- Step 3** EMC rear section covers (D) are selected by front/rear plug-up combination.
Guides are selected as required.
- Step 4** The front guides (E) must be 160mm type.
- Step 5** The rear guides (F) are dependant on the rear plug-up configuration.

ORDERING INFORMATION

Front/rear plug-up combination >			160/160	160/140	160/120	160/100	160/80	160/60		
Description	Size	Qty	Order code	Order code	Order code	Order code	Order code	Order code		
A	Basic frame each with Type 1 mid plane extrusion	3U	1	959-275800	959-275806	959-275806	959-275800	959-275806	959-275806	
		6U	1	959-275801	959-275807	959-275807	959-275801	959-275807	959-275807	
		9U	1	959-275802	959-275808	959-275808	959-275802	959-275808	959-275808	
B	Basic frame each with Type 2 mid plane extrusion	3U	1	959-275803	959-275809	959-275809	959-275803	959-275809	959-275809	
		6U	1	959-275804	959-275810	959-275810	959-275804	959-275810	959-275810	
		9U	1	959-275805	959-275811	959-275811	959-275805	959-275811	959-275811	
C	End Plate	3U	1	959-281743	-	-	-	959-281744	-	
			pk 20	959-275812	959-275813	959-275814	959-275815	959-275816	959-275817	
		6U	1	959-281745	-	-	-	959-281746	-	
			pk 20	959-275818	959-275819	959-275820	959-275821	959-275822	959-275832	
9U	pk 20	959-275824	959-275825	959-275826	959-275827	959-275828	959-275829			
	D	Rear EMC Top and Bottom covers	3U/6U/9U	1	959-281748	-	-	-	959-281749	-
3U/6U/9U			pk20	-	959-275831	959-275832	959-275833	-	959-275835	
E	Front Guides	UL94-V1	160	pk 10	950-232662	950-232662	950-232662	950-232662	950-232662	
		UL94-V0	160	pk 10	950-277491	950-277491	950-277491	950-277491	950-277491	
F	Rear Plug-up Guides	UL94-V0	160	pk 50	-	959-275836	959-275837	-	959-275838H	959-275839F
		UL94-V1	160	pk 10	950-232662	-	-	950-242850	-	-
		UL94-V0	160	pk 10	950-277491	-	-	-	-	-

ACCESSORIES

For details of compatible accessories, please refer to page 63

INTRODUCTION

KM6-RF sets out to address the IEEE1101.10 and 11 specifications whilst providing a high level of EMC shielding performance. A wide variety of complete kits are available, but it is also possible to order in individual piece parts for situations where those kits do not meet your specific requirements.

This section shows details at piece part level, including some dimensional information. In general, components are parametric in that it is possible to calculate dimensions of other sizes from a basic standard set of dimensions. For instance, a nominally 84HP extrusion has a standard length of 432,2mm. It can be calculated that a 60HP version is $432,2 - (24 \times 5,08\text{mm}) = 432,2 - 121,92 = 310,28\text{mm}$. With two exceptions which are identified, end conditions are symmetrical at 84HP and should always be referenced to the left hand end viewed from the front.

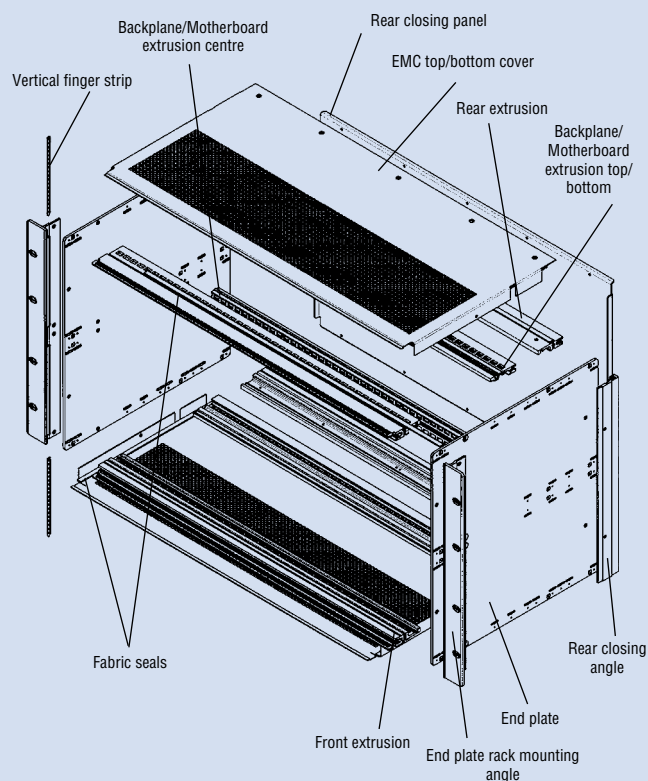
In height (end plates, for instance), a similar calculation will use multiples of 44,45mm - a 'U', although there are some variations in that rack mounting hole positions do not have a regular increment.

KM6-RF PIECE PARTS

End plates	64
End plate (rack) angels	65
End plate overlays	65
Rear closing angles	66
Tie bars	67-68
Backplane spacers	69
DIN mounting adaptors	69
Tapped strips	70
EMC seals and gaskets	71
top and bottom covers	72-73
Rear closing panels	73
Rear covers	74

KM6-RF ACCESSORIES

Divider kits	75
PCB guides and grounding	76
Coding / grounding device	77
PCB guide heavy-duty upgrade	77



KM6-RF subrack components

END PLATES

FEATURES

- 3U, 4U, 6U, 7U or 9U heights
- 240, 300, 360 or 420 depths
- Safety radii on corners
- 3U, 6U and 9U rear plug-up versions

KM6-RF end plates are largely modular in dimensions: from a basic height and depth, height dimensions increase by 44,45mm for each additional unit of 1U. In depth the increments are based on the Eurocard step of 60mm, or 20mm in the case of rear plug-up versions.

4U and 7U versions can be used in either (3 or 6U) plus 1U top or bottom, or (3 or 6U) plus ½ U top and bottom, allowing space for cooling, recessing, cabling etc.

CONTENTS OF KIT

Description	Qty	Material/Finish
End plate	1	2,5mm Al alloy 5251-H12, Clear chromate

ORDERING INFORMATION

Nominal dimensions

Basic type (front plug-up only)

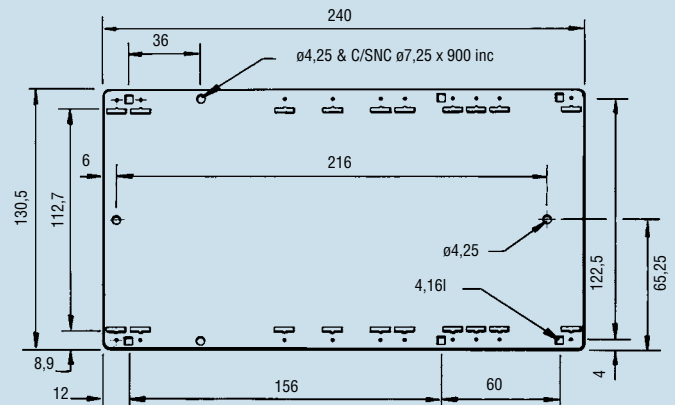
Height	Depth	Kit contents	Order Code
	240	1	959-262256
3U	300	1	959-262258
	360	1	959-262260
4U	420	1	959-278685
	240	1	959-262257
6U	300	1	959-262259
	360	1	959-262261
	420	1	959-278687
7U	420	1	959-278686
8U	420	1	959-278688

Rear plug-up (preferred sizes highlighted)

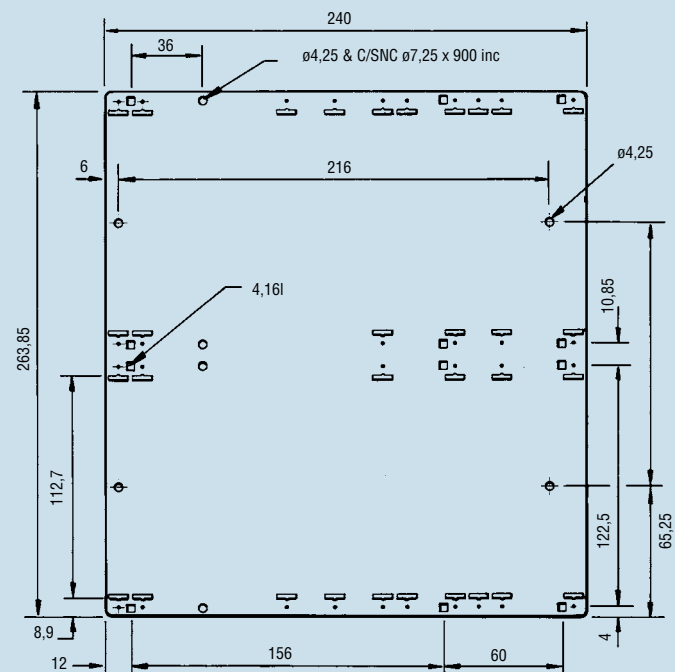
3U	160/160	1	959-281743
	160/140	20	959-275813
	160/120	20	959-275814
	160/100	20	959-275815
	160/80	1	959-281744
	160/60	20	959-275817
6U	160/160	1	959-281745
	160/140	20	959-275819
	160/120	20	959-275820
	160/100	20	959-275821
	160/80	1	959-281746
	160/60	20	959-275823
9U	160/160	20	959-275824
	160/140	20	959-275825
	160/120	20	959-275826
	160/100	20	959-275827
	160/80	20	959-275828
	160/60	20	959-275829

End plates

3U END PLATE (240)



6U END PLATE (240)



END PLATE (RACK MOUNTING) ANGLES AND OVERLAYS

FEATURES

- IEEE 1101.10 geometry
- 3U, 6U and 9U
- 19inch or ETSI mounting angles
- Angle overlays available
- Safety radii on corners

These angles are designed to accept EMC fingers or to interface with them as appropriate (fingers should be ordered separately). Height dimensions are modular – from a basic height, they increase by 44,45mm for each additional 1U.

Polyester overlays are available in RAL7035 light grey (ordered separately). They provide a decorative finish and prevent finger-marking when moving the subrack around.

CONTENTS OF KIT

Description	Qty	Material/Finish
Aluminium extrusion	1	6063T6 Clear chromate

ORDERING INFORMATION

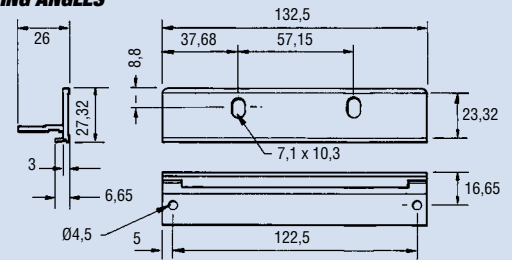
End plate (19 inch rack mounting) angles

Nominal size	Kit contents	Order code
3U	1	959-262266
6U	1	959-262267
9U	1	959-278689

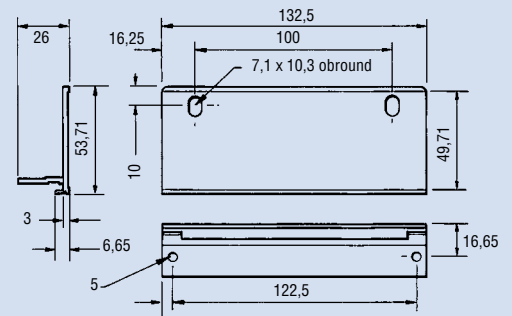
End plate (ETSI rack mounting) angles

3U	1	959-262237
6U	1	959-262238

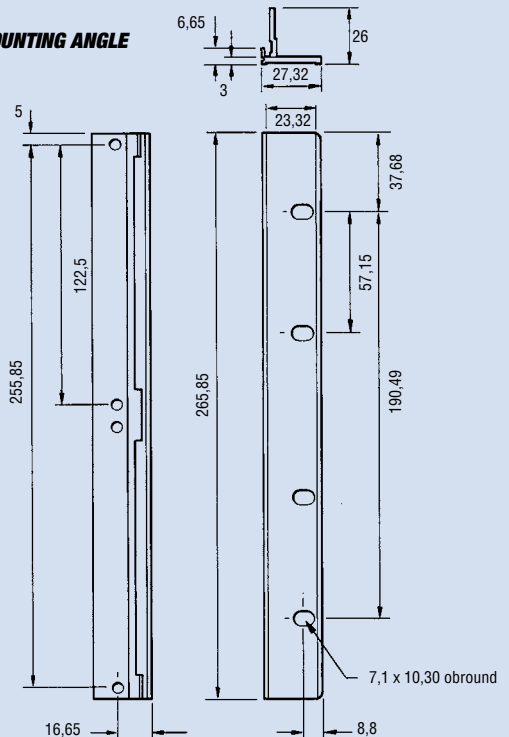
3U RACK MOUNTING ANGLES



3U ETSI RACK MOUNTING ANGLES



6U RACK MOUNTING ANGLE



End plate (rack mounting) angles and overlays

OVERLAYS

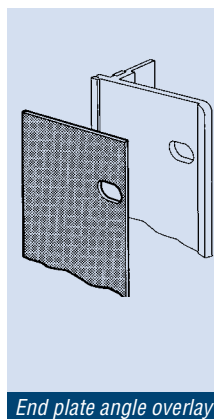
Overlays are self adhesive and can be applied to the front of end plate angles. Supplied in packs of 10

CONTENTS OF KIT

Description	Qty	Material/Finish
Overlay	10	0,2mm polyester light grey RAL7035

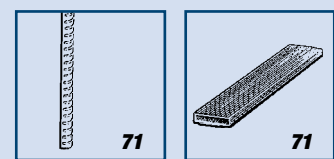
ORDERING INFORMATION

Height	Qty.	19 inch angles	ETSI angles
3U	pk.10	959-262220	959-262222
6U	pk.10	959-262221	959-262223



End plate angle overlay

Order separately



EMC vertical fingers

Fabric seal

REAR CLOSING ANGLES

FEATURES

- IEEE1101.10 geometry
- 3U, 6U and 9U versions

These angles serve two functions, mimicking the geometry of rack mounting angles to interface with IEE1101.10 plug-in units and front panels. Also, the angles provide support to the end plates against the pressure of EMC fingers. (EMC fingers should be ordered separately).

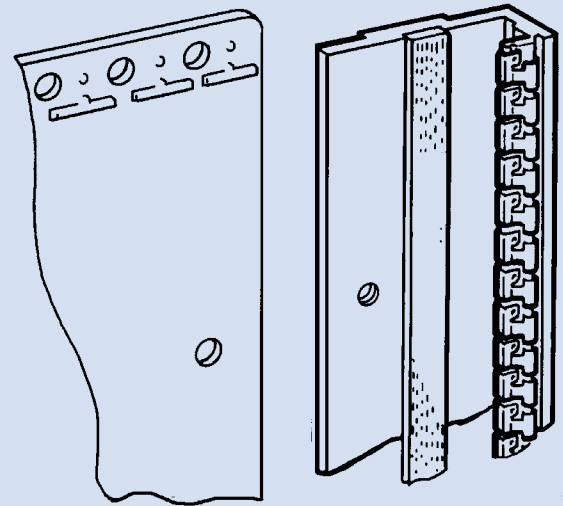
Normally used in Style B KM6-RF and 1101.11 rear plug-up situations

CONTENTS OF KIT

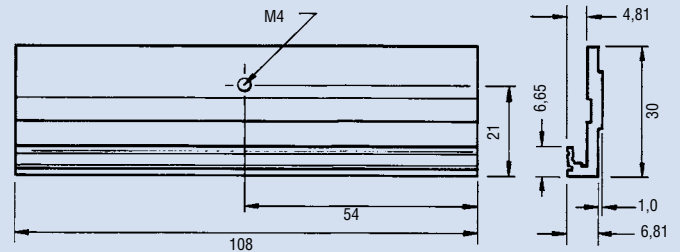
Description	Qty	Material/Finish
Extrusion	1	Al extrusion 6063T6, Clear chromate
Fixings		

ORDERING INFORMATION

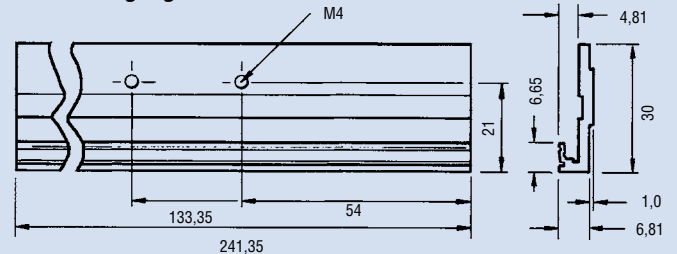
Rear closing angles	Kit contents	Order code
3U	1 + fixing	959-266527
6U	1 + fixings	959-266528
9U	1 + fixings	959-278690



3U Rear closing angle

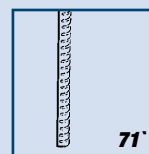


6U Rear closing angle

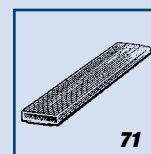


Rear closing angles

Order separately



EMC vertical fingers



Fabric seal

FRONT EXTRUSIONS

FEATURES

- Three versions available
- Various widths
- Guide location in 1HP (5,08mm) increments
- 84HP lengths have printed slot locations

IEEE 1101.10 version

The extended front lip provides facilities for the operation of IEEE 1101.10 compliant injector/ extractors fitted to front panels.

IEC 60297-3 (non inject/ extract) version

Similar to the above, but without the extended lip. Normally used for panels which do not carry an injector/ extractor to 1101.10

Lipless version

This extrusion has a reduced overall height, and so can fit inside an EMC cover to enable recessing of pcb's. It can also be used in a divided height situation where it is necessary to fit a 6U panel over two, 3U sections - it should be noted, however that it would be necessary to modify a front panel slightly if it is IEEE 1101.10 compliant.

CONTENTS OF KIT

Description	Qty	Material/Finish
Front extrusion	1	Al extrusion 6063T6, Clear chromate

ORDERING INFORMATION

Description	Order code			
	84HP	60HP	42HP	24HP
IEEE1101.10 version	959-262227	959-278691	959-278692	959-278693
IEC 60297 version	959-262230	959-278694	959-278695	959-278696
Lipless version	959-262231	-	-	-
Assembly screws M4 x 16 sct cap (pk 100)				959-262224

REAR EXTRUSION

The lipless version is used in a different form to secure overall covers at the rear of Style B subracks.

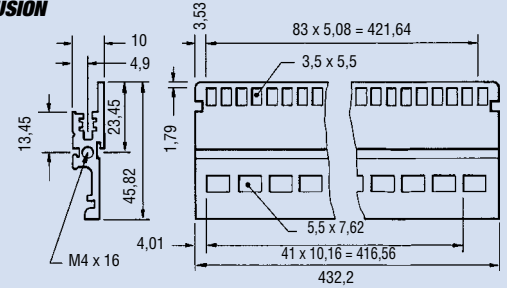
CONTENTS OF KIT

Description	Qty	Material/Finish
Rear lipless extrusion	1	Al extrusion 6063T6, Clear chromate

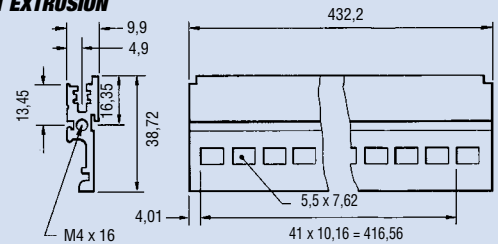
ORDERING INFORMATION

Description	Order code
Rear lipless extrusion 84HP	959-266529
Assembly screws M4 x 16 sct cap (pk 100)	959-262224

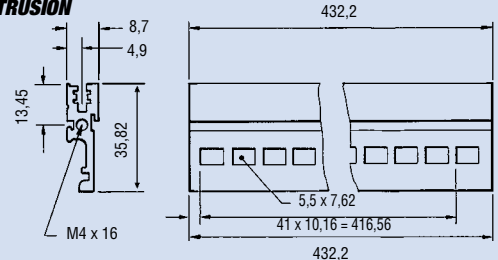
IEEE FRONT EXTRUSION



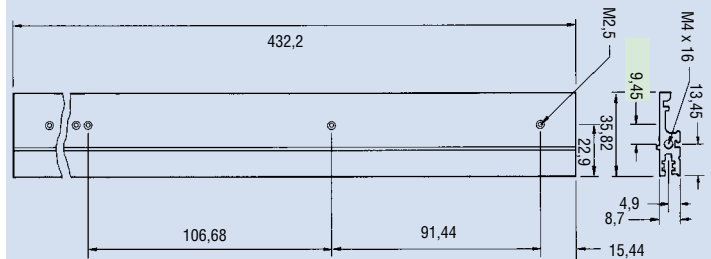
IEC 60297-3 FRONT EXTRUSION



FRONT LIPLESS EXTRUSION

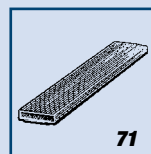


REAR LIPLESS EXTRUSION

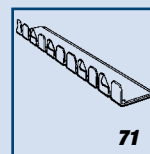


Front and rear extrusions

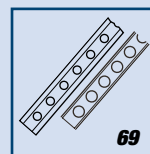
Order separately



Fabric seal



Horizontal front panel seal



Front panel pre-location strips and tapped strips

REAR EXTRUSIONS

Type 1

The Type 1 extrusion requires a spacer in order to maintain the correct geometry of the reference face of a backplane. This would normally be an insulator, but a conductive version is available if required.

Type 2

The Type 2 extrusion is extended at the rear so that it does not require any spacer and when it is not necessary or desirable to insulate the backplane from the frame.

CONTENTS OF KIT

Description	Qty	Material/Finish
Backplane extrusion	1	Al extrusion 6063T6, Clear chromate

BACKPLANE/ MOTHERBOARD EXTRUSIONS, TOP AND BOTTOM

Features

- Type 1 for use with backplane spacer
- Type 2 for direct mounting of backplane
- DIN 41 612 conversion option - refer to page 69

ORDERING INFORMATION

Description	84HP	60HP	42HP	24HP
Type 1 extrusion	959-262232	959-278697	959-278698	959-278699
Type 2 extrusion	959-262233	959-278700	959-278701	959-278702
Assembly screws M4 x 16 skt cap (pk.100)	959-262224			

BACKPLANE/MOTHERBOARD EXTRUSIONS, CENTRE

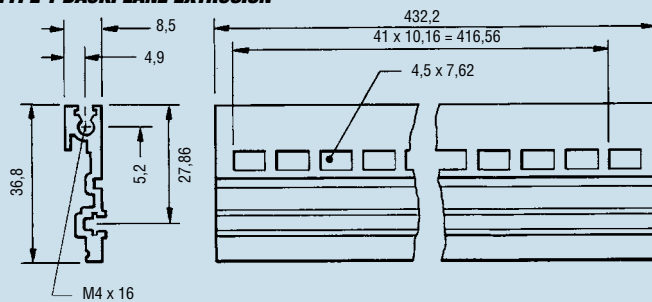
Features

- Type 1 for use with backplane spacer
- Type 2 for direct mounting of backplane
- Two-part extrusion, includes guide mounting facility
- DIN 41 612 conversion option - refer to page 69

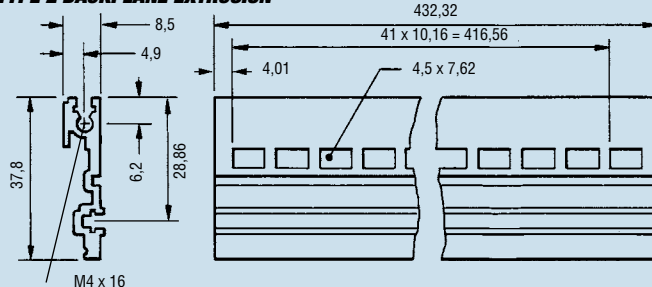
ORDERING INFORMATION

Description	Order code
Type 1 backplane extrusion, centre 84HP	959-262234
Type 2 backplane extrusion, centre 84HP	959-262235
Assembly screws M4 x 16 skt cap (pk.100)	959-262224

TYPE 1 BACKPLANE EXTRUSION

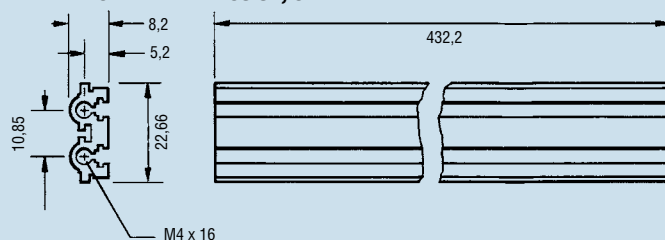


TYPE 2 BACKPLANE EXTRUSION

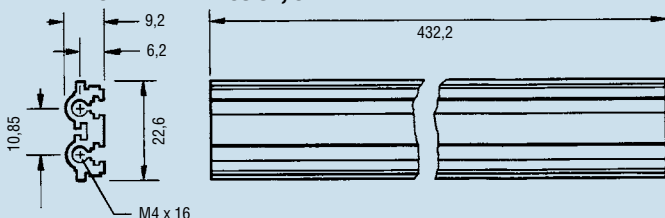


Backplane/ motherboard extrusions, top and bottom

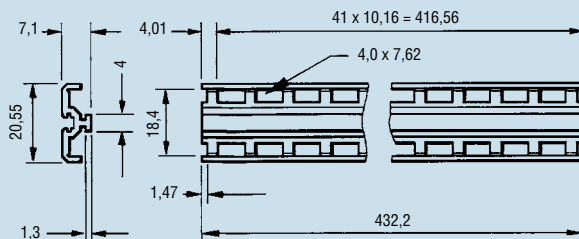
TYPE 1 BACKPLANE EXTRUSION, CENTRE



TYPE 2 BACKPLANE EXTRUSION, CENTRE

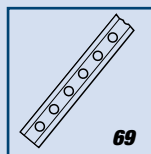


MID REAR TIE BAR INSERT

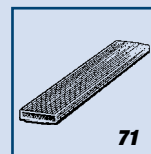


Backplane/ motherboard extrusions, centre

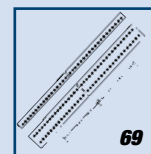
Order separately



Tapped strips



Fabric seal



Backplane spacer type 1

BACKPLANE SPACERS – INSULATING AND CONDUCTIVE VERSIONS

BACKPLANE INSULATION SPACERS, SINGLE LEVEL

Supplied singly in 84HP lengths, the insulation spacer has small half shears at each end to aid assembly. It can be simply cut down to produce short versions. Used with type 1 rear top and bottom backplane extrusions.

BACKPLANE INSULATION SPACERS, TWO LEVEL

Supplied singly in 84HP lengths, the insulation spacer has small half shears at each end to aid assembly. It can be simply cut down to produce short versions. Used with type 1 mid-rear backplane extrusions.

BACKPLANE CONDUCTIVE SPACER

The single level conductive spacer is supplied singly in 42HP lengths. Used with type 1 top and bottom and mid-rear backplane extrusions.

CONTENTS OF KIT

Description	Qty.	Material/Finish
Insulation spacers	1 x 84HP	1mm Grey PVC UL94-V0
Conductive spacer	1 x 42HP	0,9mm steel, Zinc plate and passivate

ORDERING INFORMATION

	84HP	42HP
Insulation spacer 84HP single level	950-10014	-
Insulation spacer 84HP two level	950-10015	-
Conductive spacer 42HP single level	-	173-60788

DIN 41612 CONVERSION

- Direct mounting of connectors
- Reversible for Types 1 & 2 backplane extrusions

These extrusions can be used to convert Type 1 or Type 2 backplane mounting tie bars to suit DIN 41612 connectors.

Supplied in 84HP lengths with M2,5 pre-tapped holes on 5,08mm (1HP) pitch, these extrusions can be easily cut down for lesser lengths. When used in a Type 1 situation, no spacer is necessary. Screws for fixing connectors should be ordered separately in packs of 100

CONTENTS OF KIT

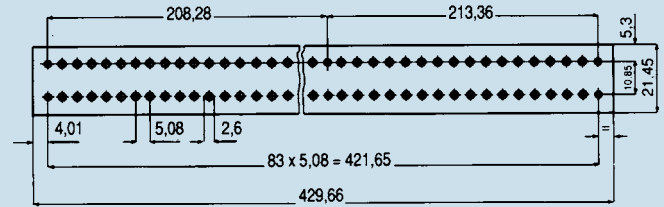
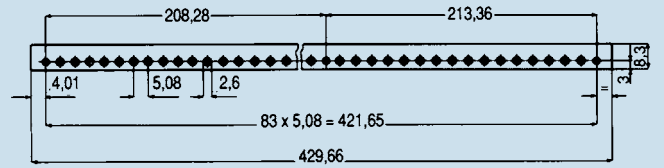
Item/Description	Qty.	Material/Finish
Extrusion	1	Al extrusion 6063T6 Clear chromate
Fixings		

ORDERING INFORMATION

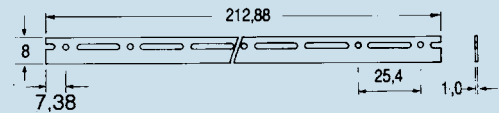
Description	Order code
DIN 41 612 conversion	959-26239

Backplane spacer strips

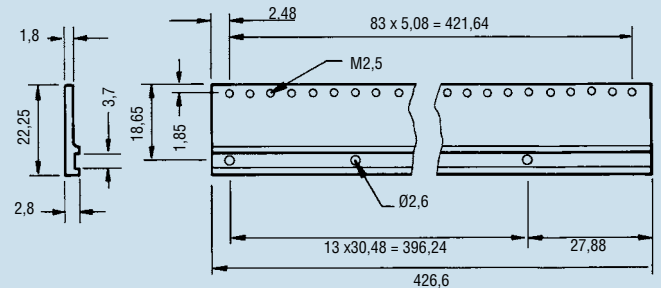
Insulating spacers



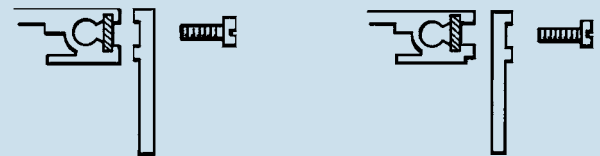
Conductive spacer



DIN 41612 conversion



DIN 41 612 Connector Mounting



Type 1
Rear Tie Bars

Type 2
Rear Tie Bars

TAPPED STRIPS

- M2,5 and M3 versions
- Various lengths

Supplied pre-tapped on 5,08mm (1HP) pitch, The M2,5 versions are used extensively to provide accurate, adjustment free assembly fixing locations for standard front and rear panels, backplanes, EMC covers and certain accessories. They are easily cut down for non-standard lengths.

The M3 version is only supplied in 84HP lengths and is used rarely in standard situations.

In normal circumstances, they are fitted to the rearward position in front extrusions.

CONTENTS OF KIT

Description	Qty.	Material/Finish
Tapped strip	1	Mild steel, Zinc plate and colour passivate

ORDERING INFORMATION

Description	Order code			
	84HP	60HP	42HP	24HP
M2,5	950-202001	950-202740	950-202739	950-202799
M3	950-276330	-	-	-

FRONT PANEL LOCATION STRIP

- Prevents sideways movement of panels on insertion

This 84HP pierced strip fits into the forward slot in KM6-RF front extrusions. When used in conjunction with a compatible IEEE 1101.10 front panel injector/ejector handle, it prevents sideways movement caused by the pressure of EMC fingers. The hole size permits a normal M2,5 front panel screw to pass through into the tapped strip.

CONTENTS OF KIT

Description	Qty	Material/Finish
Front panel location strips	10	0,9mm stainless steel

ORDERING INFORMATION

Description	Qty	Order code
Panel location strips	10	959-278684

DIVIDER SCREENING MEMBER

- Used to provide an EMC seal between front extrusions when divider kits are used to divide a 6U subrack into 3U areas
- Supplied in 84HP lengths

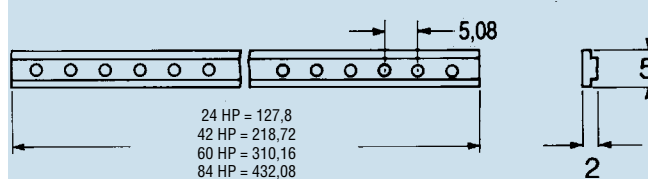
CONTENTS OF KIT

Description	Qty.	Material/Finish
Divider screening member	1	Al extrusions clear chromate

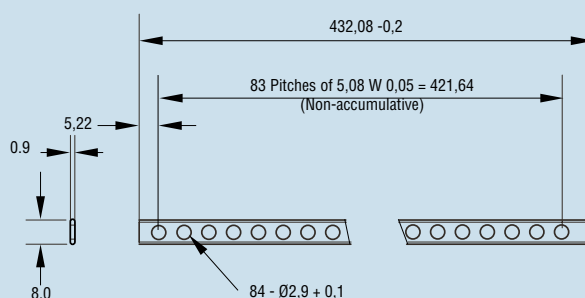
ORDERING INFORMATION

Description	Qty.	Order code
Divider screening member	pk.10	959-281747

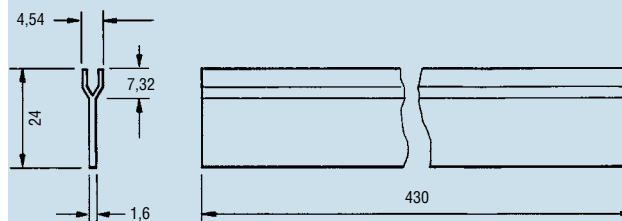
Tapped strips



Panel location strips



Divider screening member



EMC SEALS

VERTICAL FINGER STRIP

This version clips onto IEEE1101.10 front panels, rack mounting angles or rear closing panels, providing electrical contact to neighbouring components. Select by nominal panel height.

CONTENTS OF KIT

Description	Qty	Material/Finish
Vertical finger strip	10	Stainless steel

ORDERING INFORMATION

Description	Qty.	Order code
Vertical seal for 3U	pk.10	959-266523
Vertical seal for 6U	pk.10	959-266524

FABRIC SEAL

Normally supplied fitted to covers and extrusions in KM6-RF subrack kits. The seal is self-adhesive and provides secure conductivity between covers and extrusions or end plates for maintaining EMC integrity.

Standard length is 430mm. When constructing an EMC subrack from piece parts these seals should be ordered for extrusion to cover interfaces.

CONTENTS OF KIT

Description	Qty	Material/Finish
Fabric seal	10	CuNi fabric over closed cell foam

ORDERING INFORMATION

Description	Qty.	Order code
Fabric seal	pk.10	959-266525

HORIZONTAL FRONT PANEL SEAL

Supplied in 84HP lengths, this self-adhesive seal fits to the inside face of front extrusions to maintain electrical contact between front panels and the extrusion front face. It is of particular relevance on wider panels where it serves to close off long slots which might be disadvantageous to EMC performance.

CONTENTS OF KIT

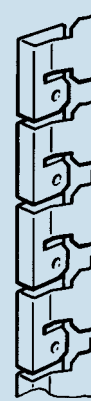
Description	Qty	Material/Finish
Horizontal seal	10	Stainless steel

ORDERING INFORMATION

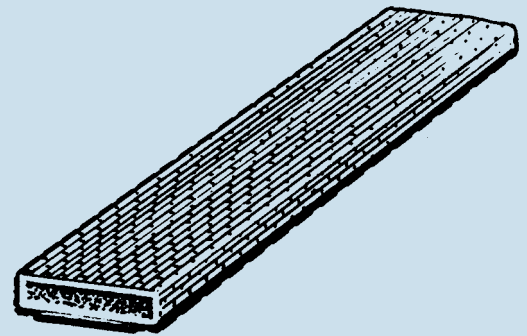
Description	Qty.	Order code
Horizontal seal	pk.10	959-262225

EMC Seals

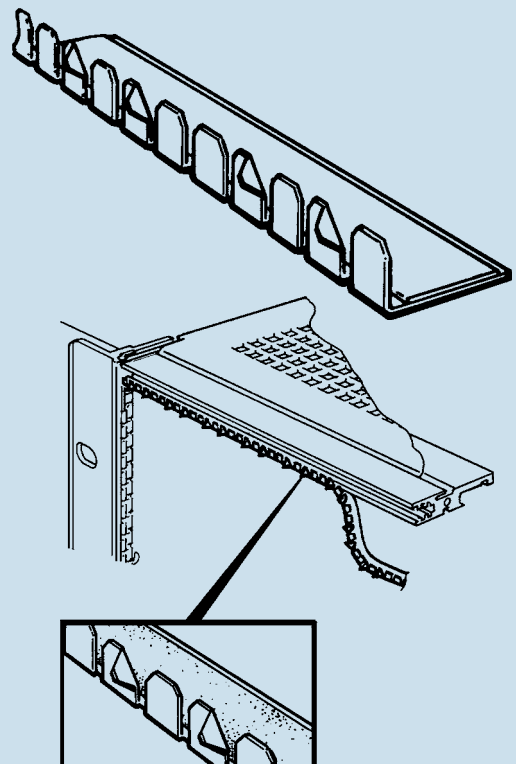
Vertical finger strip



Fabric seal



Horizontal seal



STYLE A TOP/ BOTTOM COVERS

FEATURES

- Normal ventilated and fire enclosure versions
- 160mm and 220mm pcb depths

NORMAL VENTILATED COVER

Used in Style A KM6-RF subrack situations where only the pcb is required to be shielded - e.g. where the backplane forms a rear EMC shield or a separate rear cover shell is to be fitted. These covers are fitted with seals to the end plate.

CONTENTS OF KIT

Description	Qty	Material/Finish
Cover	1	Steel 0,8mm CR4, Zinc plate and passivate
Seals (fitted)	2	CuNi fabric over closed cell foam
Fixings		

ORDERING INFORMATION

Description	Qty.	Order code
Ventilated cover for 160mm pcb	1	959-262275
Ventilated cover for 220mm pcb	1	959-262277

FIRE ENCLOSURE COVER

This version meets the requirements of EN60950 regarding hole size and spacing. Normally required at the bottom only, it will replace the normal ventilated type.

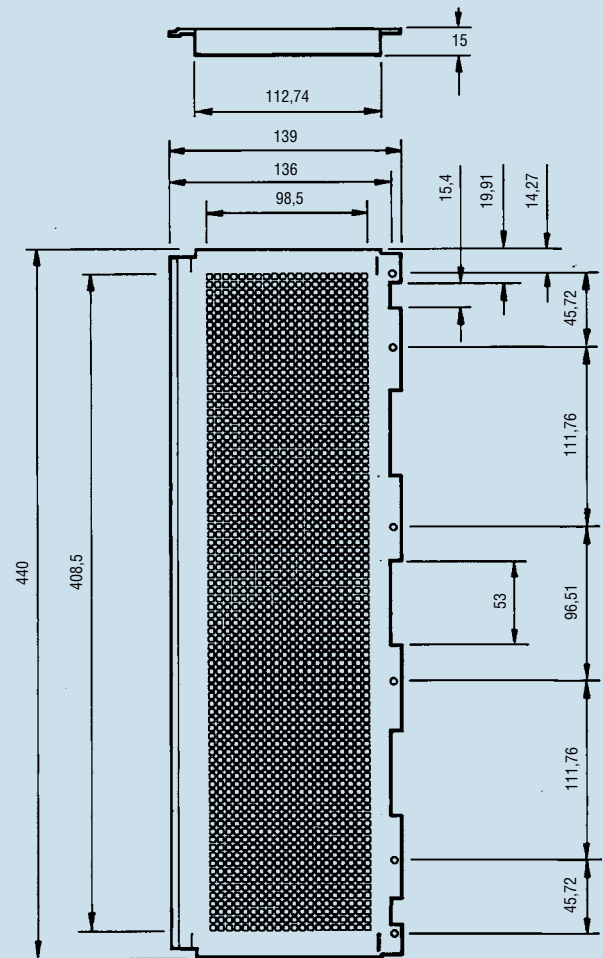
CONTENTS OF KIT

Description	Qty	Material/Finish
Cover	1	Steel 0,8mm CR4, Zinc plate and passivate
Seals (fitted)	2	CuNi fabric over closed cell foam
Fixings		

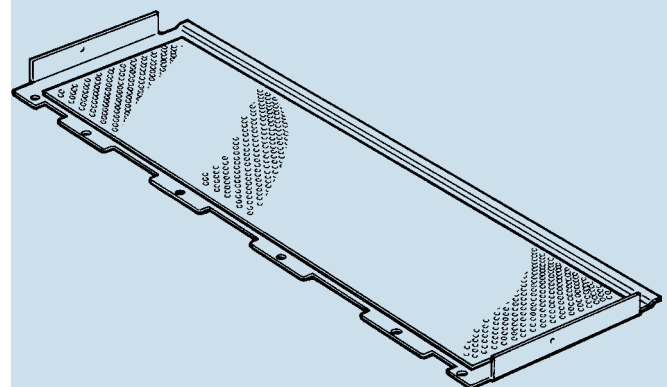
ORDERING INFORMATION

Description	Qty.	Order code
Fire enclosure cover for 160mm pcb	1	Contact sales office

Style A EMC cover



Fire enclosure cover



TOP/BOTTOM COVERS - STYLE B SUBRACKS

FEATURES

- Normal ventilated and fire enclosure versions
- 240, 300 and 360mm depths

NORMAL VENTILATED COVER

Used in Style B KM6-RF subrack situations where the entire area is shielded. These covers are fitted with seals to the end plate.

CONTENTS OF KIT

Description	Qty	Material/Finish
Cover	1	Steel 0,8mm CR4, Zinc plate and passivate
Seals (fitted)	2	CuNi fabric over closed cell foam
Fixings		

ORDERING INFORMATION

Description	Qty.	Order code
Ventilated cover for 240mm subracks	1	959-262274
Ventilated cover for 300mm subracks	1	959-262276
Ventilated cover for 360mm subracks	1	959-262278
Ventilated cover for 420mm subracks	1	959-281016

FIRE ENCLOSURE COVER

This version meets the requirements of EN60950 regarding hole size and spacing. Normally required at the bottom only, it will replace the normal ventilated type.

CONTENTS OF KIT

Description	Qty	Material/Finish
Cover	1	Steel 0,8mm CR4, Zinc plate and passivate
Seals (fitted)	2	CuNi fabric over closed cell foam
Fixings		

ORDERING INFORMATION

Description	Qty.	Order code
Fire enclosure cover for 240 subracks	1	Contact sales office
Fire enclosure cover for 300 subracks	1	Contact sales office
Fire enclosure cover for 360 subracks	1	Contact sales office

REAR CLOSING PANEL: STYLE B

As supplied in Type B KM6-RF subrack kits, the rear closing panel can be used to fill an 84HP aperture in conjunction with .10 angles and vertical seals.

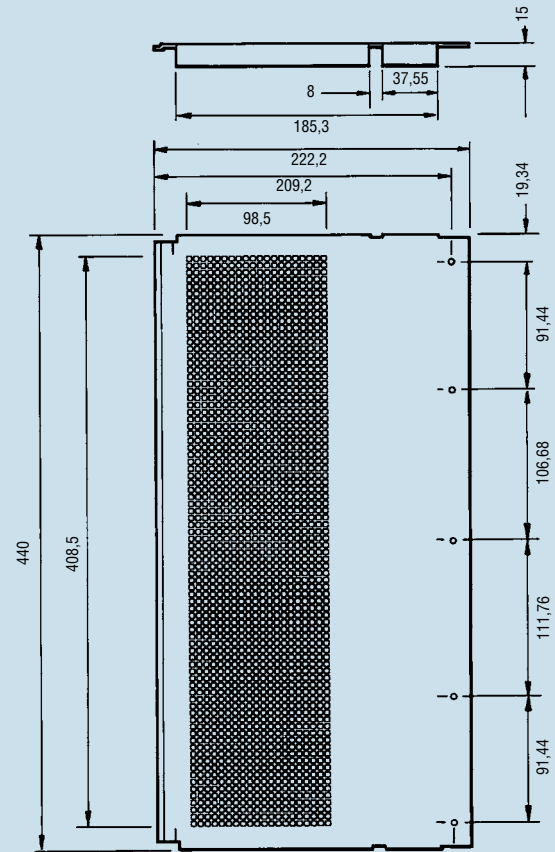
CONTENTS OF KIT

Description	Qty	Material/Finish
Panel	1	Al alloy 1,2 clear chromate
Fixing screws	10	

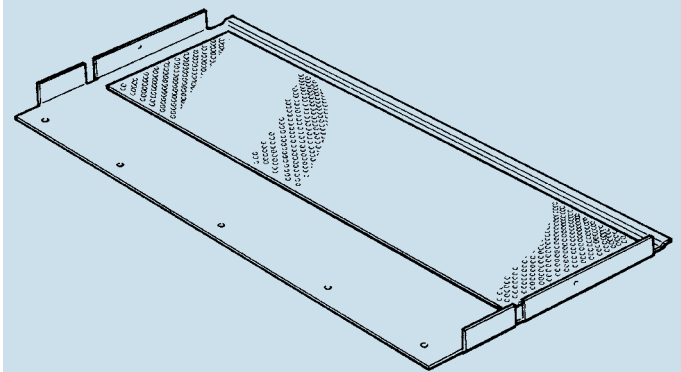
ORDERING INFORMATION

Description	Width	Qty.	Order code
3U	84HP	1	959-266530
6U	84HP	1	959-266531

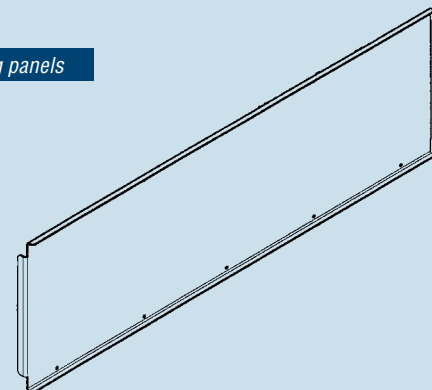
Style B EMC cover



Fire enclosure cover



Rear closing panels



Rear Cover Shell for STYLE A

- Encloses backplane and wiring area
- Two depths - 60 and 120mm
- Two heights - 3U and 6U

The depth of the rear cover should reflect the difference between the pcb and end plate lengths, e.g. for a 160mm pcb in 240 end plates, a 60mm deep cover is required and in 300mm end plates, a 120mm cover. Fabric cover seals are supplied for fitting to the backplane extrusion beneath the cover.

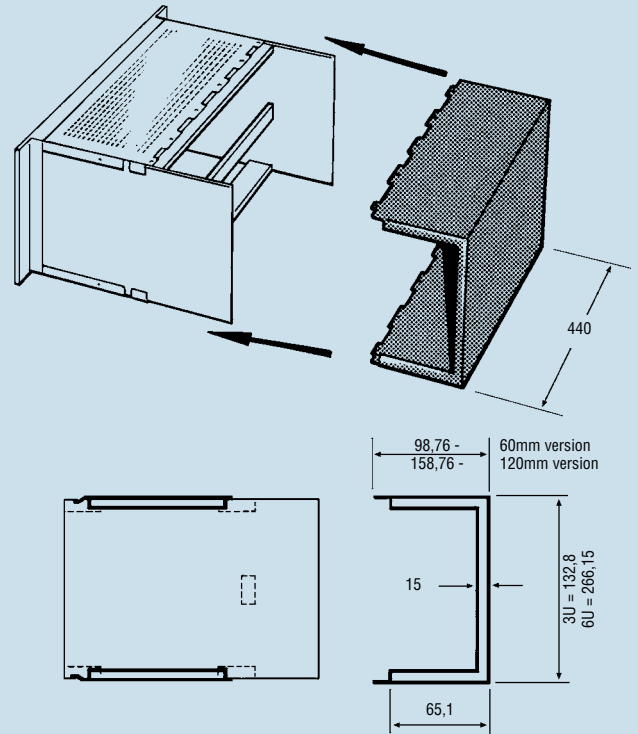
CONTENTS OF KIT

Description	Qty	Material/Finish
Cover	1	Mild steel 0, 8mm CR4, Zinc plate and clear passivated
Fabric cover seals		Copper nickel over closed cell foam
Fixings		

ORDERING INFORMATION

Nominal dimensions	Pcb/end plate lengths	Order Code
3U	84HP x 60mm	160/240, 220/300
	84HP x 120mm	160/300, 220/360
6U	84HP x 60mm	160/240, 220/300
	84HP x 120mm	160/300, 220/360

Rear cover shell for Style A



Rear cover shell

DIVIDER KIT, 2 X 3U X 84HP

FEATURES

- Divides 6U frames horizontally into two 3U sections
- No additional rear extrusions needed
- Includes EMC screening member
- IEEE1101.10 and IEC 60297-3 variants

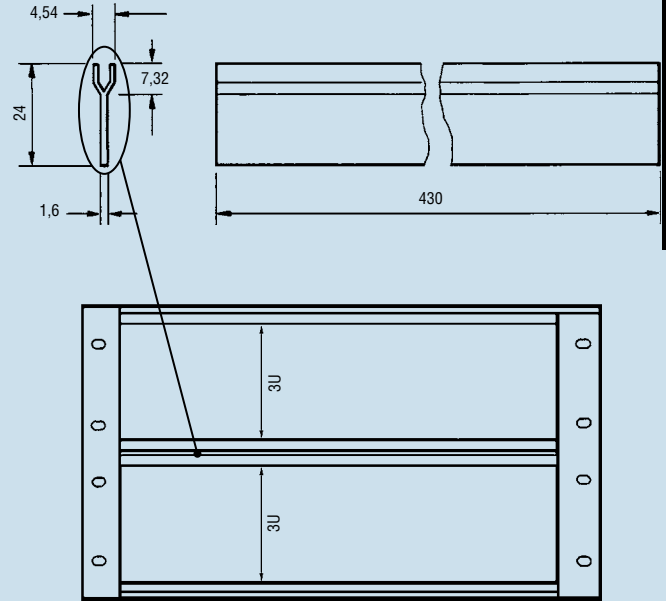
CONTENTS OF KIT

Description	Qty.	Material/Finish
Front extrusions	2	Al extrusion, Clear chromate
Screening member	1	Al extrusion, Clear chromate
Tapped strips	2	Steel, Zinc plate and colour passivate
Fixings		

ORDERING INFORMATION

Nominal width	Extrusion type	Order code
84HP	IEEE1101.10	959-278050
84HP	IEC297-3	959-262270

Screening member



DIVIDER KIT, MIXED HEIGHTS

FEATURES

- Permits integration of single and double Eurocards within a 6U frame
- No additional rear extrusions required
- Includes EMC screening member between horizontal extrusions
- IEC60297-3 with IEEE1101.10 front panel compatibility
- Full IEEE1101.10 compatibility

These units can be assembled with the 3U section either to the left or the right. The divider plate accepts EMC fingers compatible with IEEE1101.10 front panel geometry. The 6U section is reduced by 2HP (eg 42HP 3U section leaves 40HP of 6U)

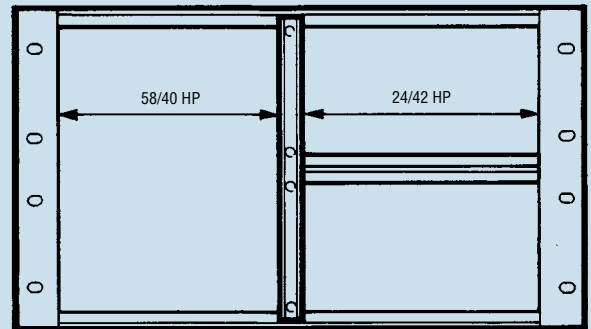
CONTENTS OF KIT

Description	Qty.	Material/Finish
Extrusions	2	Al extrusion, Clear chromate
Divider plate assembly	1	Al sheet/al extrusion Clear chromate
Vertical EMC finger strips	2	Stainless steel
Location moulding	1	
Screening member	1	Al extrusion, Clear chromate
Tapped strips	2	Steel, Zinc and colour passivate
Fixings and assembly instructions		

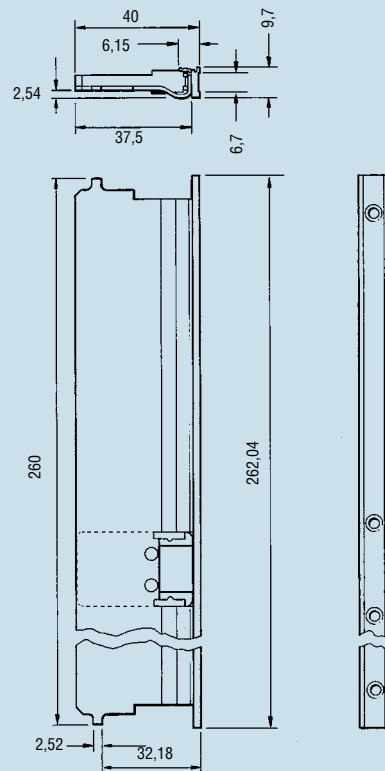
ORDERING INFORMATION

Nominal width of 3U section	Front extrusion type	Order code
24HP	IEC 60297-3	959-262268
42HP	IEC 60297-3	959-262269
24HP	IEEE1101.10	959-278052
42HP	IEEE1101.10	959-278054

Divider kit mixed heights



Divider plate 6U



PCB GUIDES

FEATURES

- IEC60297-3 and IEEE1101.10 compliant
- Bolt down facility for added strength
- 100,160 and 220 single part, 1,6mm thickness
- UL94-V1 and V0 versions
- Red 160 version for CompactPCI™ system slots
- PCB grounding clip IEEE1101.10

CONTENTS OF KIT

Description	Qty	Material/Finish
Guides	10	UL94 flammability rating / yellow card no. Luranyl 2452/1, green V1 / E41871 Noryl HF185, lt grey V0 / E45329(R) Noryl HF185, red V0 / E45329(R)

Ordering information

UL94-	Colour	PCB length	Qty.	Order code
V1	Green	80mm	pk.10	950-4001710
		100mm	pk.10	950-242850
		160mm	pk.10	950-232662
V0	Light grey	160mm (*1/2 HP Offset)	pk.1	950-366493
		220mm	pk.10	950-232663
		80mm	pk.10	950-4001711
V0	Red	160mm	pk.10	950-277491
V0	Red	160mm	pk.10	950-277494
V0	Red	160mm	pk.10	950-277496

* Note: Guide slot is offset by 1/2 HP for PICMG 2.11 compatibility - required for the mounting of pluggable CompactPCI power supplies

PCB GROUNDING CLIPS (ESD)

FEATURES

- Electrostatic Protection
- According to IEEE1101.10
- No screws required

This grounding clip can be inserted into the front or rear of 1,6mm pcb guides. Contacts on the clip provide electrical continuity between a suitably equipped Eurocard and, via a spring under the clip to the standard front extrusions. Pcb's can, therefore, be grounded before the engagement of connectors. The clip fits into a 'pocket' in the guide and requires no screw fixings to maintain contact. The clip has been tested to IEC 950: 1986 section 2.5.11. In testing, the clip reached a steady temperature of 76 degrees C at 15A, with a resistance path of 7 mOhms. A typical electrostatic discharge would be 12A for a period of 1 microsecond.

It should be noted that the clip is designed to provide a ground path for electrostatic charges, not for a power short circuit or as a ground rail.

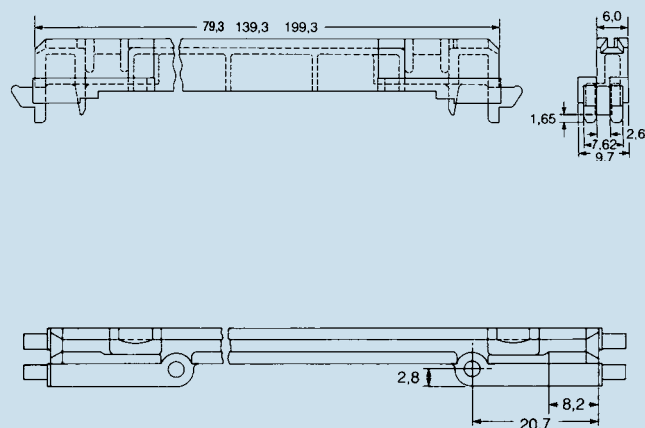
CONTENTS OF KIT

Description	Qty.	Material/Finish
Grounding clips	10	0,15mm spring steel, zinc plated
Assembly instructions		

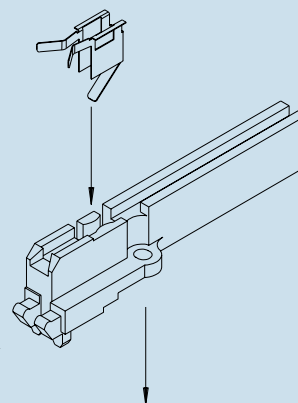
ORDERING INFORMATION

Description	Qty.	Order code
PCB grounding clip	pk.10	950-251366

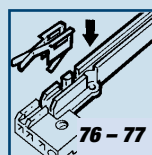
KM6-RF Subrack - PCB Guides



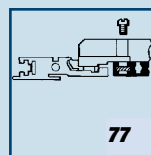
PCB Grounding clip



Order separately



Guides, ESD clips, coding



Heavy duty upgrade

PCB GUIDES: CODING AND GROUNDING DEVICE ACCORDING TO IEEE1101.10 AND .11

Standard guides can be converted to 1101.10 specification by the addition of a die cast, frame mounted coding device. The unit can be fitted retrospectively and is positively secured in position by means of a clamping screw.

FEATURES

- Adds to front of standard guides
- Separate ESD spring
- Screw secured die casting for maximum conductivity to frame ground

For grounding the pre-location/ ESD pin of an injector/extractor, a separate spring is available. The design of the spring and the use of a die casting for its housing ensures maximum current carrying capability. In testing, the assembly satisfactorily passed 25A for 2 minutes without damage.

Note: Under some circumstances, the use of these features as an electrical safety ground may not fully comply with the requirements of EN60950

Coding keys should be ordered separately

CONTENTS OF KIT

Description	Qty.	Material/Finish
Coding device option:	10 die castings	Zinc alloy BS1004, Bright nickel plate
Clamp screws	10	Steel, zinc plated
ESD contact option		
ESD contact springs	10	Stainless steel
Coding key option	100 keys	Plastic, UL94-V0 (grey)

ORDERING INFORMATION

Description	Qty.	Order code
Coding keys	pk.100	959-277031
Frame mounted coding device, D.E.F.	pk.10	959-277039
Frame mounted coding device, A.B.C.	pk.10	959-277040
ESD spring	pk.10	959-277034

GUIDE SUPPORT EXTRUSION - HEAVY DUTY UPGRADE

FEATURES

- Adds strength to assembly
- Permits positive retention of the guides
- Provides security for heavy plug-in units in transit or severe conditions

This extrusion attaches behind the front extrusion. Guides can be screwed down to the horizontal tapped strip via M2,5 x 5mm security fixing screws.

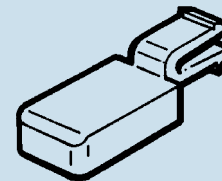
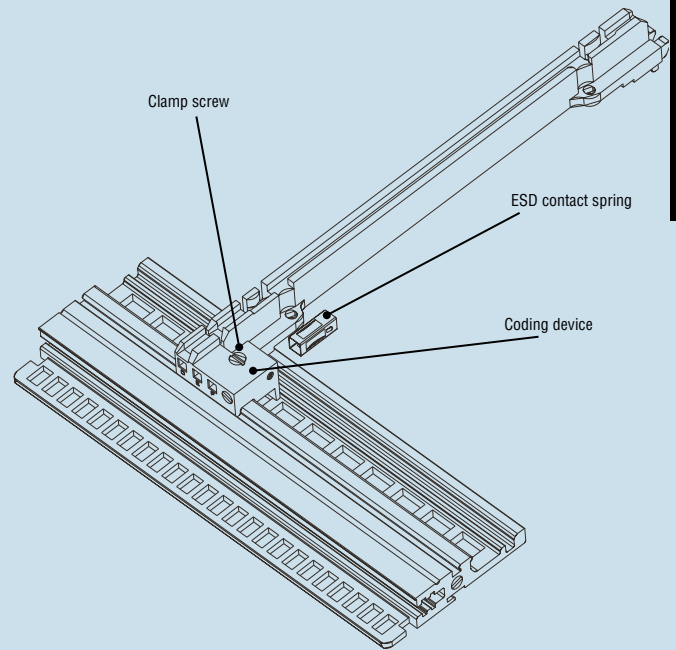
CONTENTS OF KIT

Qty/Description	Qty.	Material/Finish
Support extrusion	1	Al extrusion Clear chromate
Tapped strip	1	Mild steel, Zinc plate and colour passivate
M4 assembly screws	2	

ORDERING INFORMATION

Nominal dimensions	Qty.	Order Code
84HP support extrusion kit	1	959-262236
Guide fixing screws	pk.100	173-202579

Coding and grounding device



Coding key

Support extrusion - heavy duty upgrade

