

KM6- Subrack Systems - Dimensional Criteria

INTRODUCTION

KM6 Subracks are designed around a number of dimensional standards that aim to provide a basic level of interchangeability between different versions and between manufacturers of similar systems.

The basis is the DIN41494 Eurocard standard. The dimensions for the housing of Eurocards are described in IEC60297 section 3 SC48D. Plug-in units are modular in concept and are based on the first card position being 3,27mm from the left hand datum line of the working aperture; subsequent card positions are on multiples of 5,08mm (1HP) from this first card position.

To allow for a uniform working clearance between front panels, when used, the overall width of a front panel is 0,4mm less than the nominal HP x 5,08 dimensions generally quoted.

Heights are nominally quoted in U's (multiples of 44,45mm) but it should be borne in mind that a device quoted as nU high will not be n x 44,45mm in overall height.

KM6- subracks can accommodate connectors to IEC130-4, DIN41617 and VG95324 specifications or motherboards to the IEC60297-3 specification

In addition, reference will be found to the IEEE1101.1, .10 and .11 which expand on the above specifications and for which **KM6-RF** provides suitable product. These describe a number of features particularly relevant to VME64x, CompactPCI® and PXI bus structures.

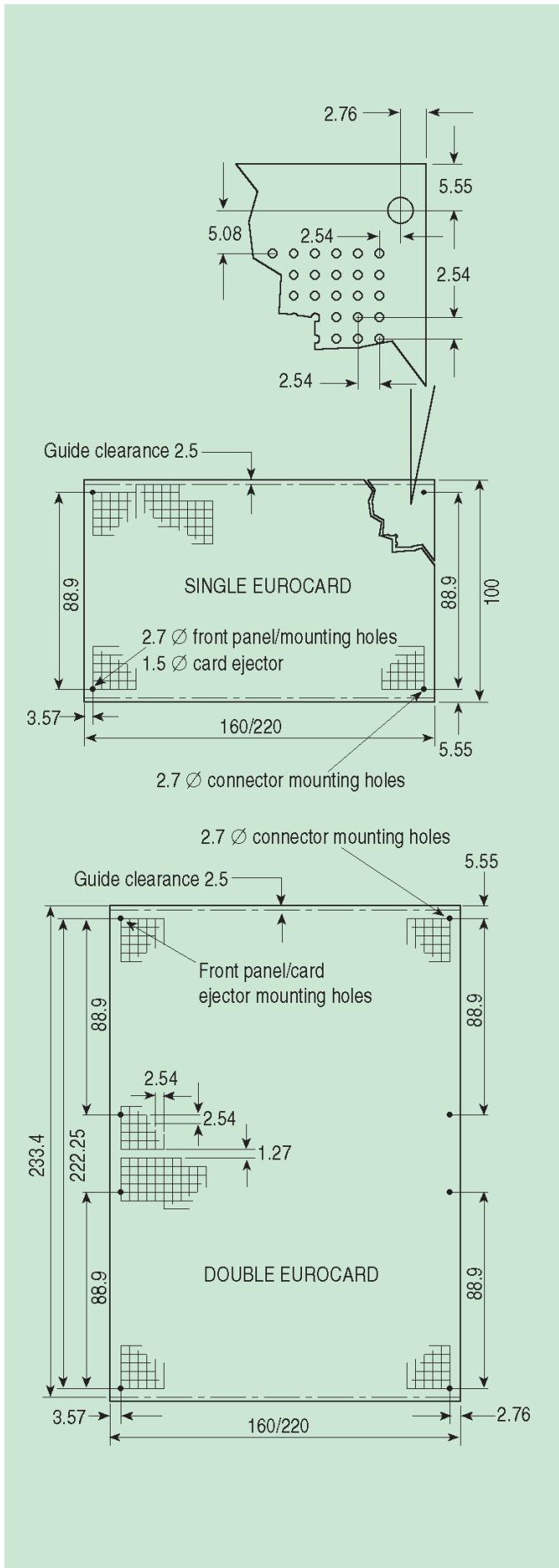
EUROCARDS - CRITICAL DIMENSIONS

As with the rest of the system the printed circuit board sizes are standardised. All PCBs should be of the Eurocard size and conform to the layout shown below.

A 2,50mm wide border is necessary at the top and bottom of printed circuit boards to allow clearance for guides and for mounting into plug-in unit guide rails.

On the double height Eurocard, owing to the overall size and position of the connectors, it is recommended that when fitting components to the front panels the grid as laid out here is adopted. This will allow consistency between 3U and 6U height front panels if mixed configurations are utilised.

□ NB Certain plastics can be adversely affected by organic solvents. Care should be taken to avoid contamination by some cleaning agents, for instance. With modified PPO's and PPE's such as Luranyl we recommend that when using thread locking compounds they should be cyanoacrylate based, not anaerobic.

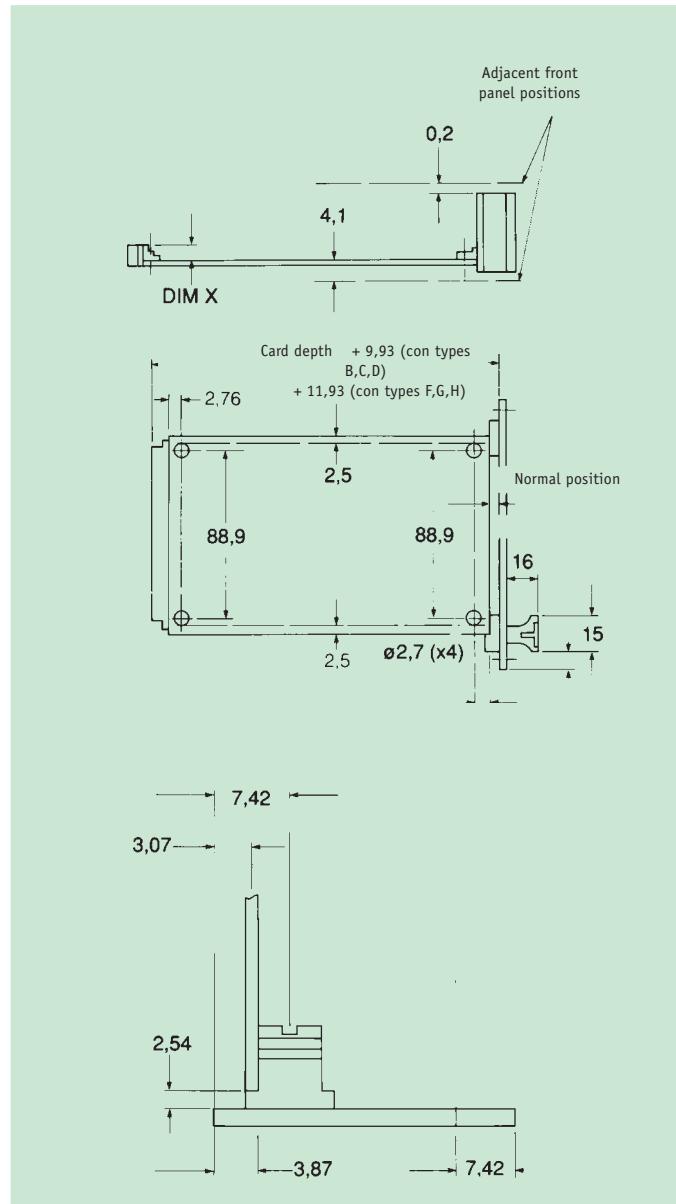


Subracks section features

USEFUL FRONT PANEL AND CIRCUIT BOARD DIMENSIONS

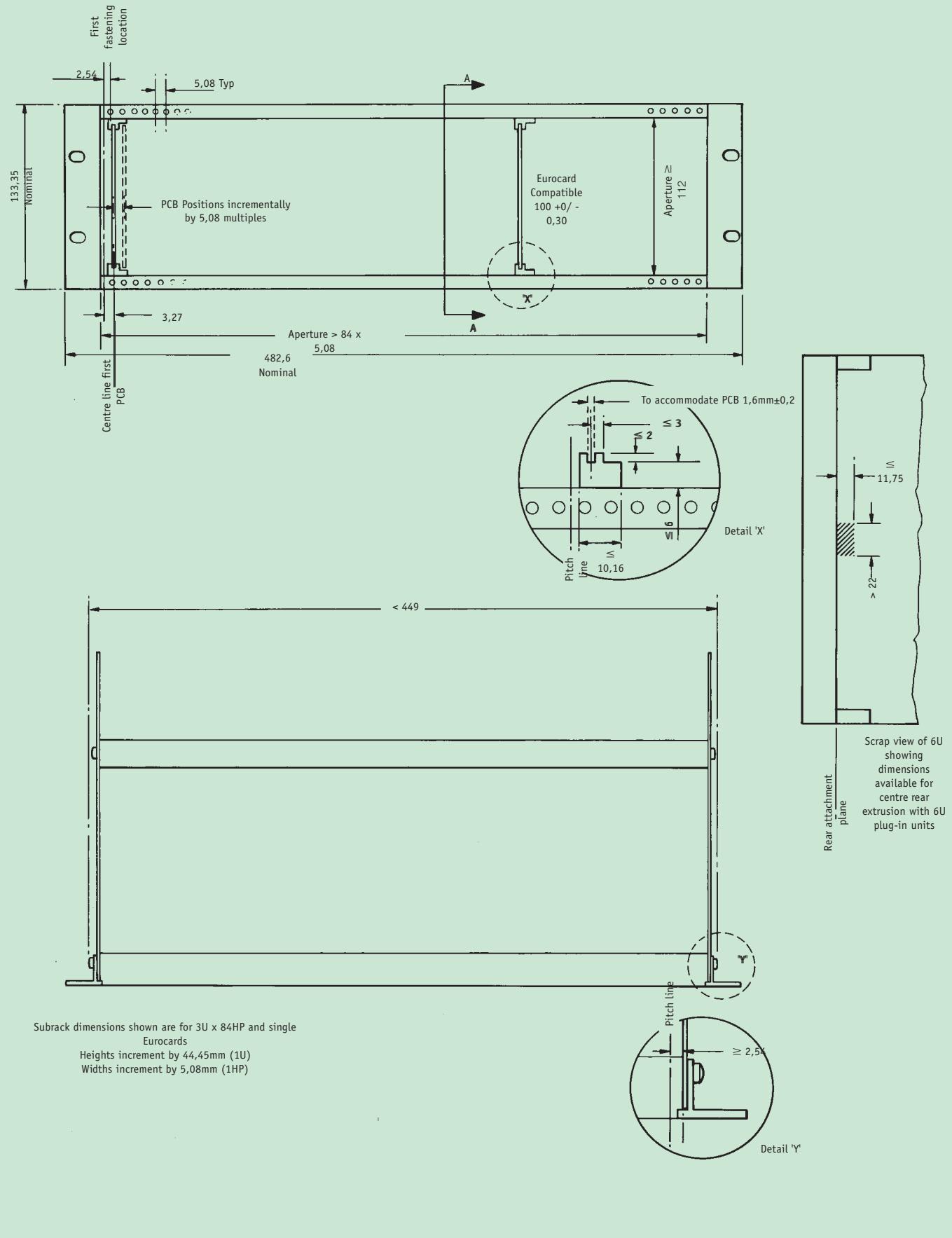
These dimensions are useful when a Eurocard is to be attached to a KM6 front panel using card mounting brackets.

Connector type (DIN 41612)	B	C	D	E	F	G	H
DIM X	7,6	9,4	9,4	14,4	11,3	16,3	11,3

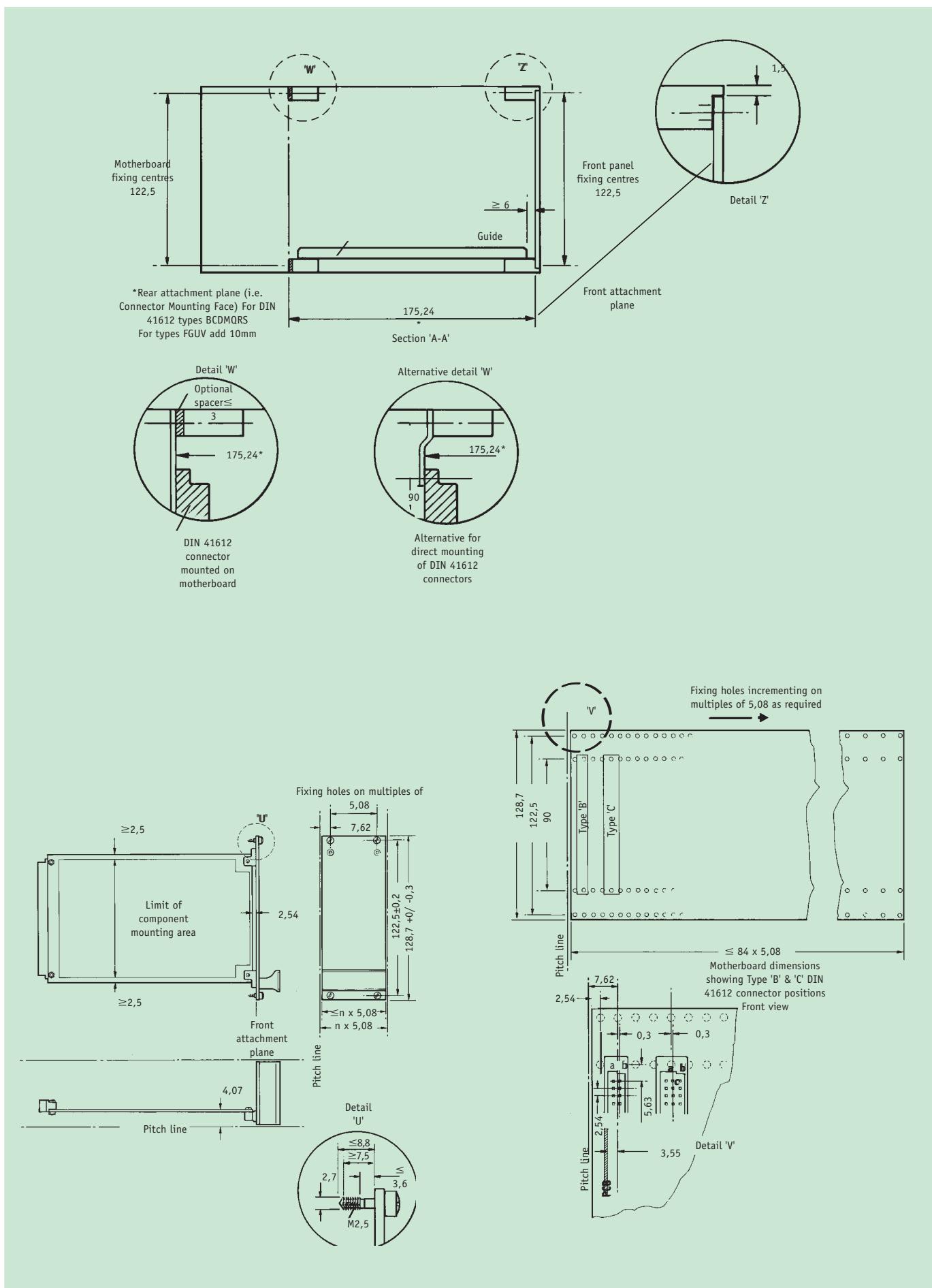


IEC 60297-3 Critical Dimensions

These illustrations show dimensions extracted from IEC 60297-3. They are not comprehensive, but should prove generally informative.



IEC 60297-3 Critical Dimensions



NEW IEEE 1101 Critical Dimensions

Introduction

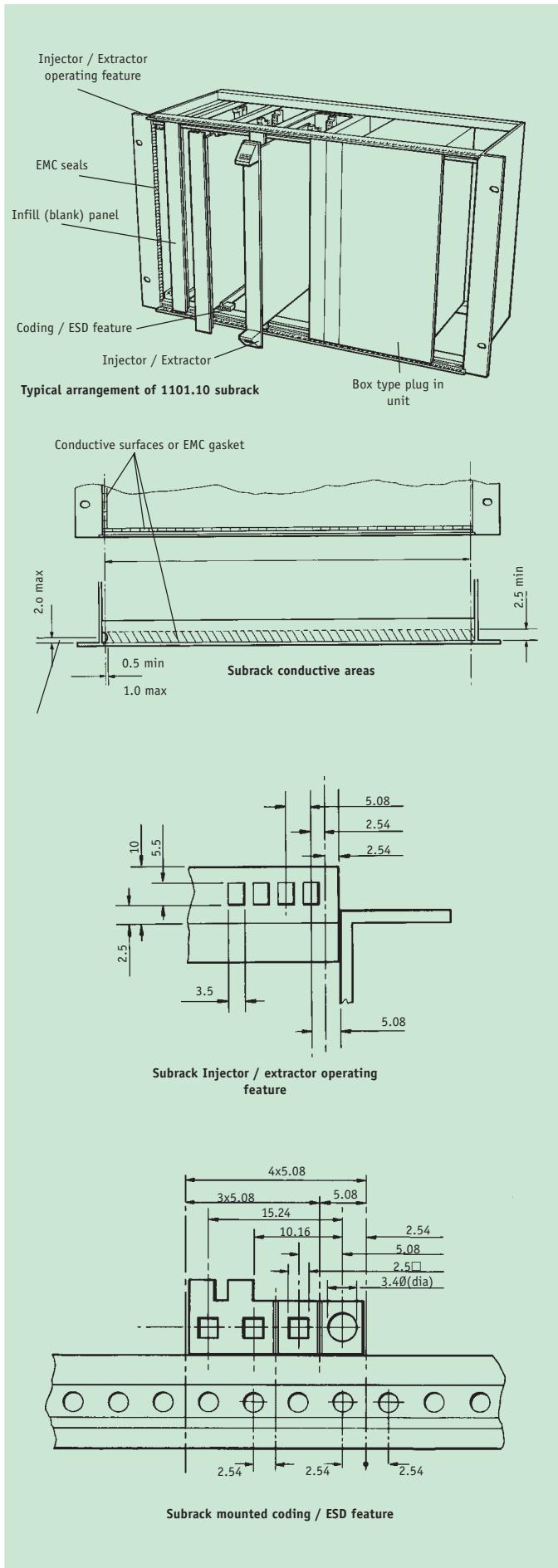
IEEE110.10 was driven by a number of requirements:
The standardisation of EMC front panel geometry to ensure compatibility between various manufacturers' products.

The introduction of the five -row DIN 41 612 connector into VME and the incorporation of Metric standard connectors. Both have very high pin counts and resultant high insertion / withdrawal forces that require a standard injector/ extractor handle geometry.

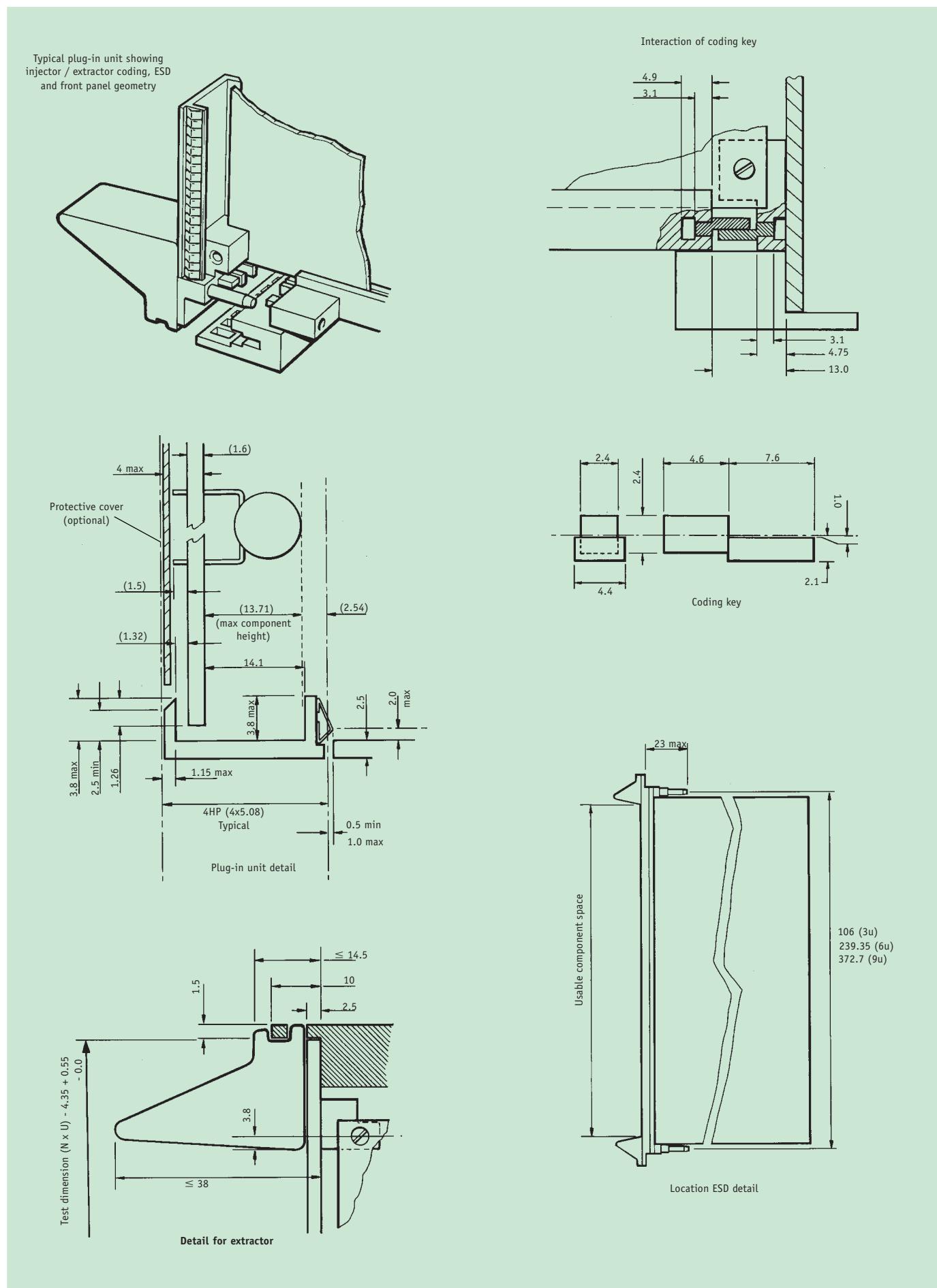
The standard also addresses the problems of electrostatic protection and a need to code plug-in units to prevent incorrect plug-up, where such actions could have catastrophic results (in particular in live insertion situations).

IEEE1101.11 standardises the geometry of rear plug-up (transition) modules where no previous standard existed.

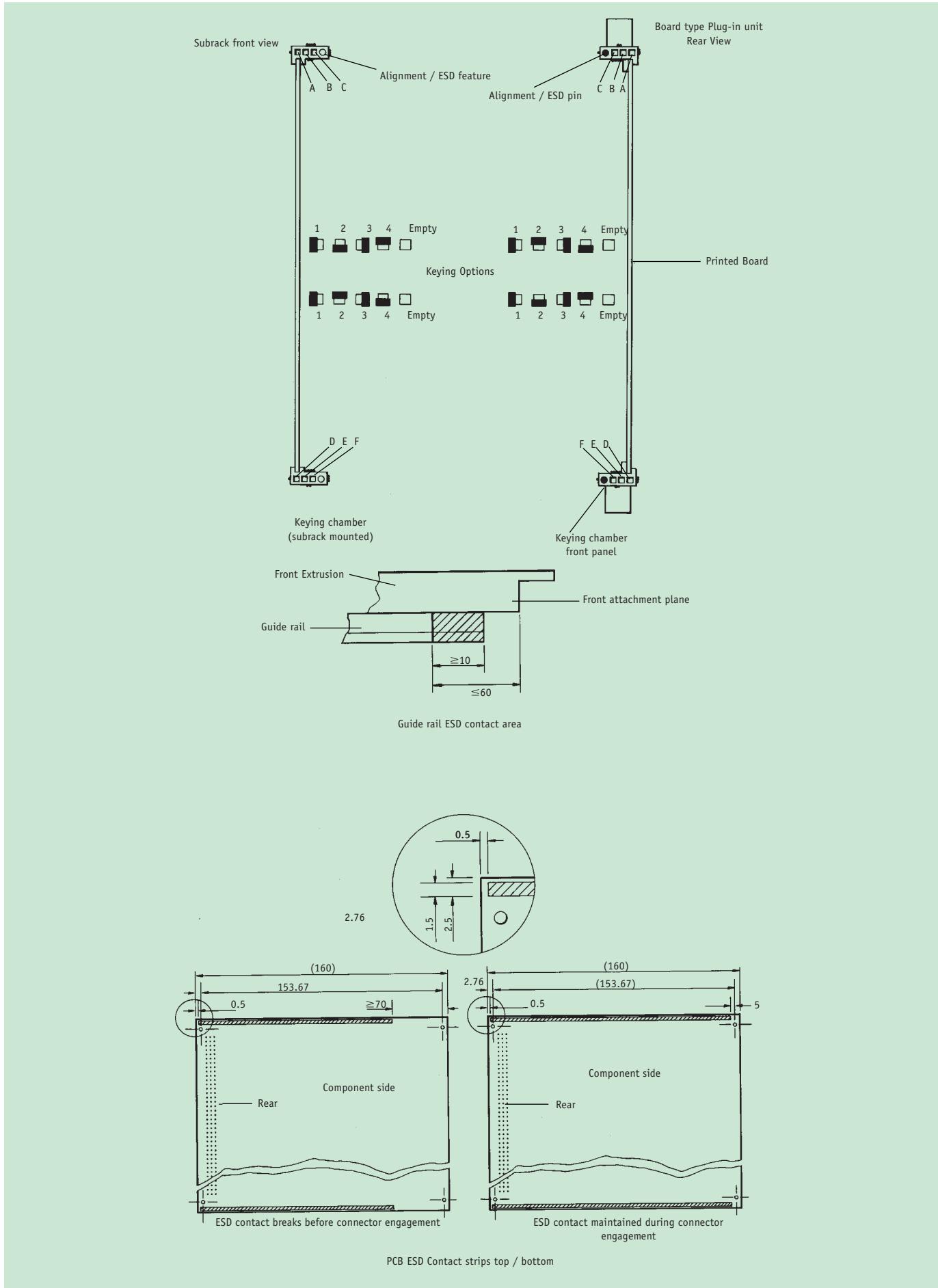
IEEE1101.1 is largely a reiteration of the basic IEC60297-3 standard, with some changes to reflect .10 and .11



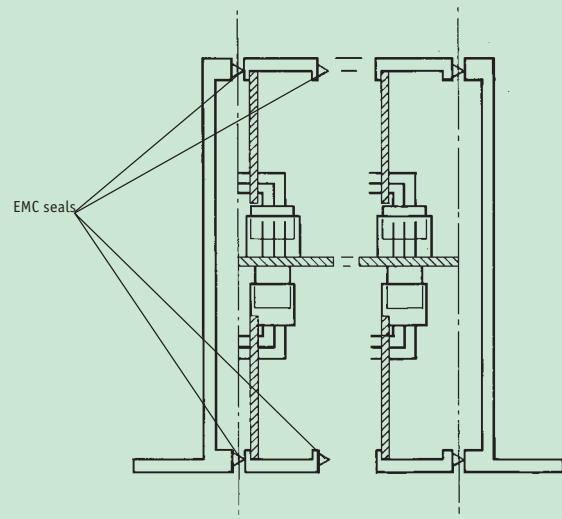
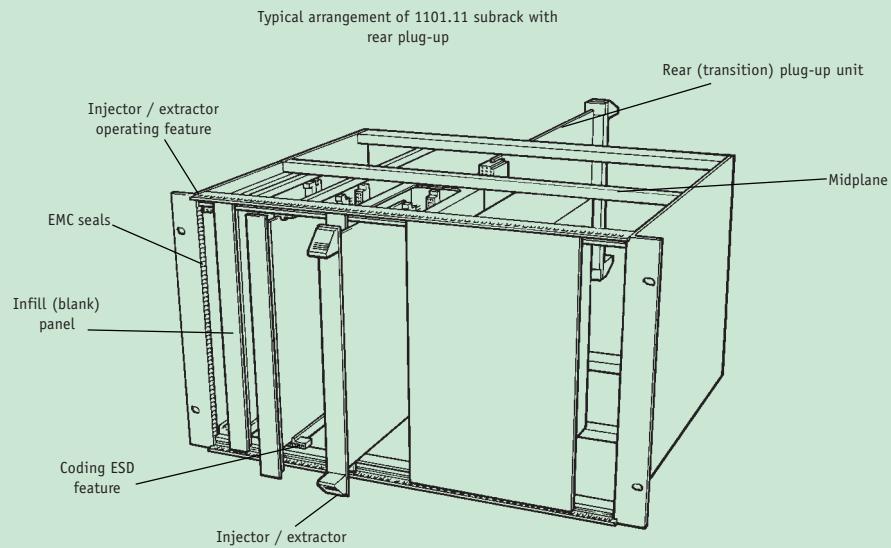
NEW IEEE 1101.10 Critical Dimensions



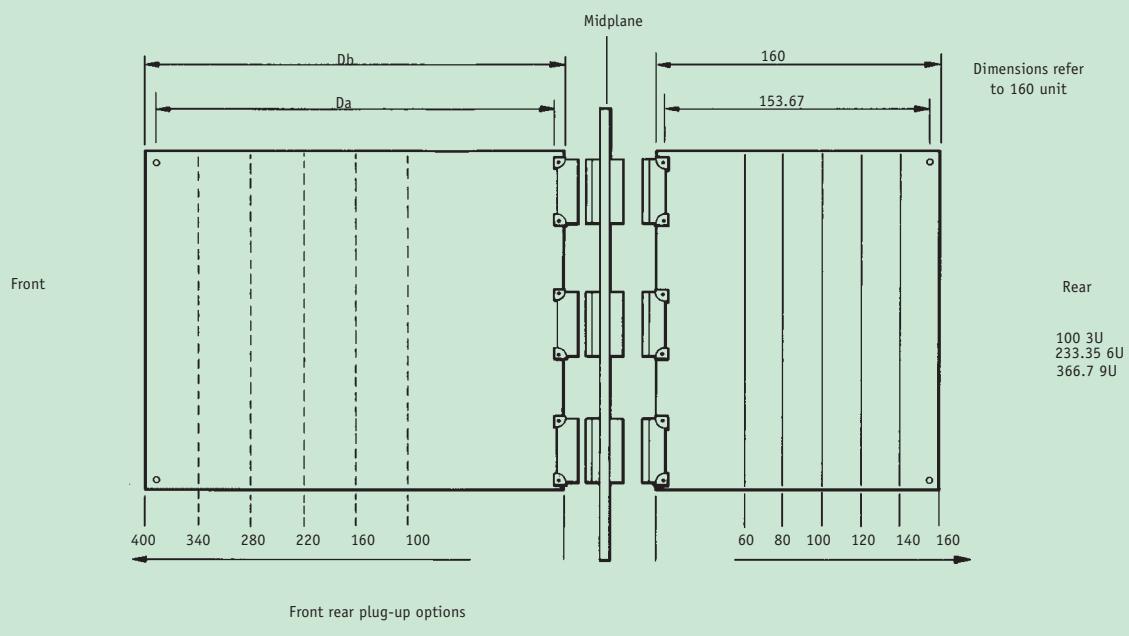
NEW IEEE 1101.10 Critical Dimensions



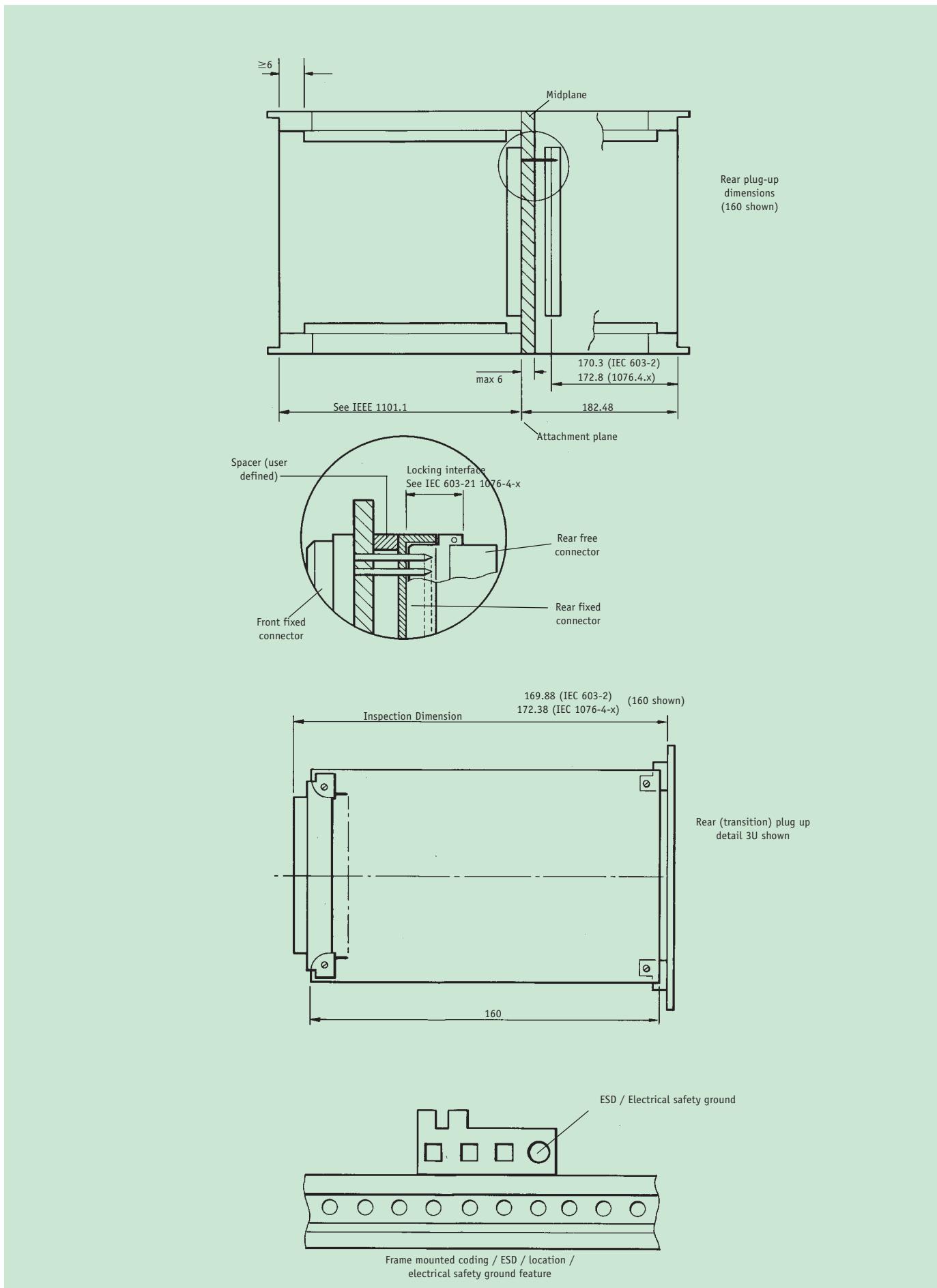
NEW IEEE 1101.11 Critical Dimensions



In line configuration for rear (transition) plug-up EMC panels.



NEW IEEE 1101.11 Critical Dimensions



KM6-RF Subrack system Compatible with IEC60297-3 & IEEE1101.10

IEEE 1101.10 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.

- 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.

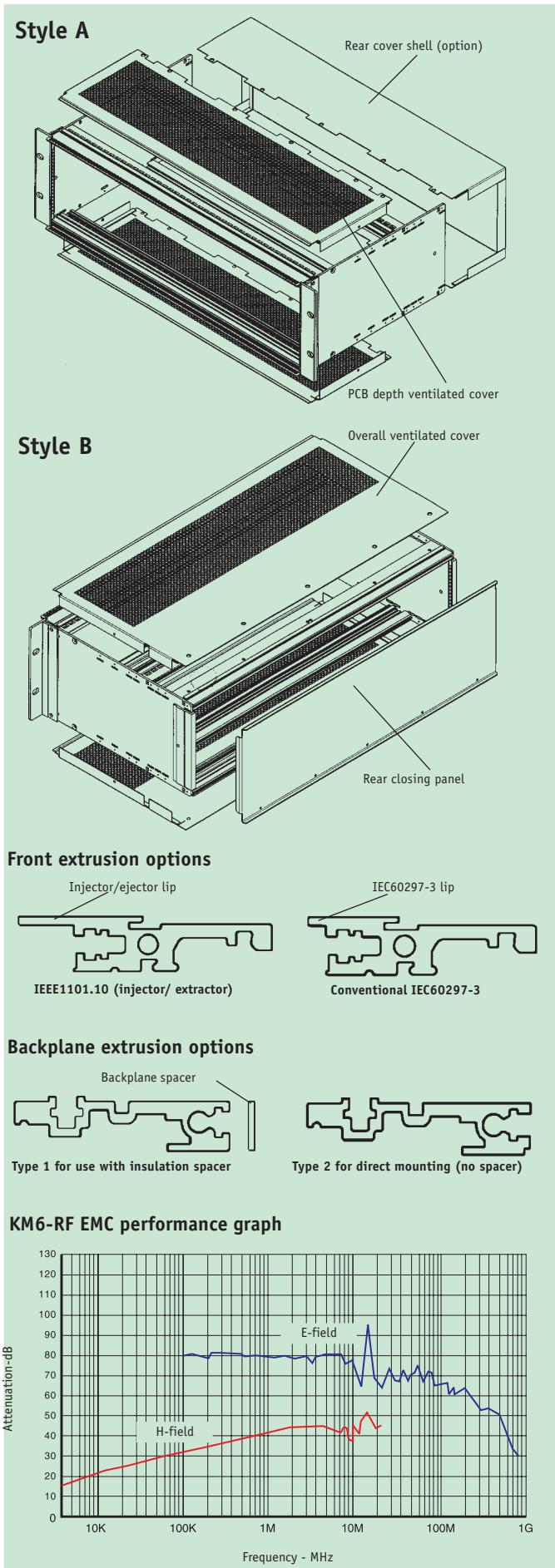
Style B

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.

Extrusion options

Further variations within these two basic styles concern the choices of front and back plane 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.

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

TYPE 2 BACKPLANE EXTRUSIONS

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

Contents of kit

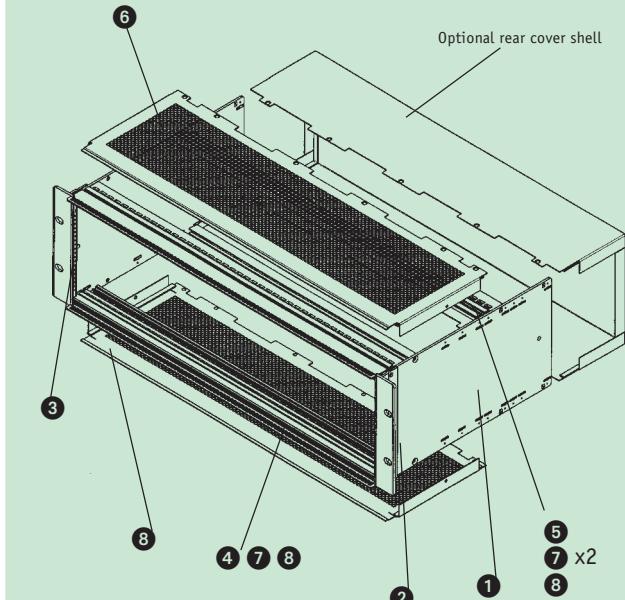
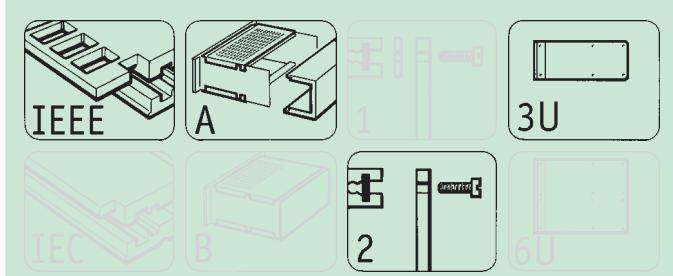
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2.5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 1 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEEE1101.10	Al extrusion, Clear chromate
⑤ 2 type 2 backplane extrusions	Al extrusion, Clear chromate
⑥ 2 EMC covers, ventilated pcb length	Mild steel 0.8mm CR4, Zinc plate and clear passivated
⑦ 6 tapped strips	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 Eurocard depth	Order Code
3U x 84hp x 240	160	959-267639K
3U x 84hp x 300	160	959-267651J
3U x 84hp x 300	220	959-267643H
3U x 84hp x 360	220	959-267653E



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

Order Separately

Guides, ESD clips, coding	Rear cover shell	Heavy duty upgrade	Front panels
			Angle overlays Generic dimensions are shown separately Component dimensional details are shown separately

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

TYPE 2 BACKPLANE EXTRUSIONS

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

Contents of kit

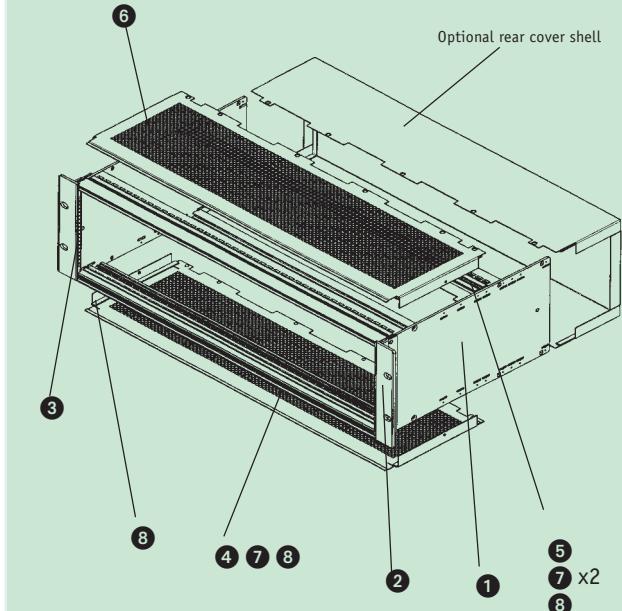
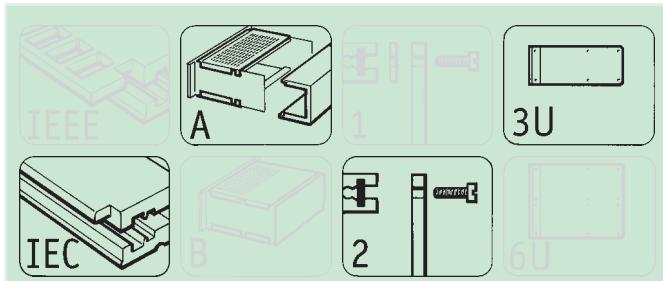
Key/Qty/Description	Material/Finish
1 2 end plates	Al alloy 2,5, Clear chromate
2 2 end plate angles	Al extrusion, Clear chromate
3 1 vertical EMC finger strip	Stainless steel, Natural
4 2 front extrusions IEC 60297-3	Al extrusion, Clear chromate
5 2 type 2 backplane extrusions	Al extrusion, Clear chromate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

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

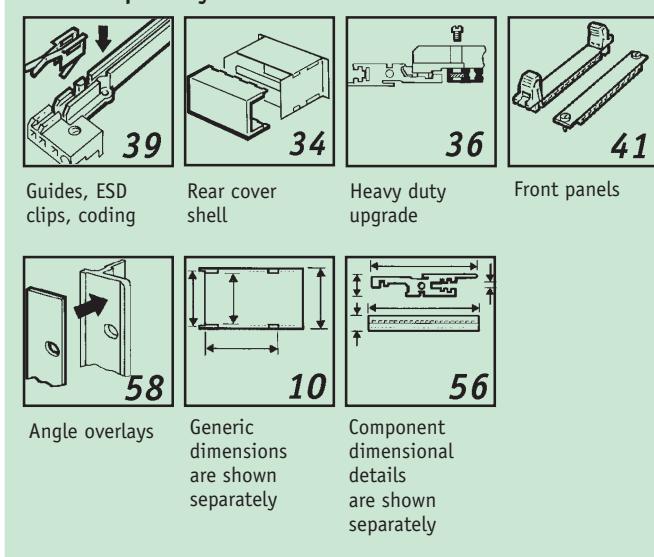
Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
3U x 84hp x 240	160	959-262246K
3U x 84hp x 300	160	959-262279F
3U x 84hp x 300	220	959-262248F
3U x 84hp x 360	220	959-262281H



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

Order Separately



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

TYPE 2 BACKPLANE EXTRUSIONS

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

Contents of kit

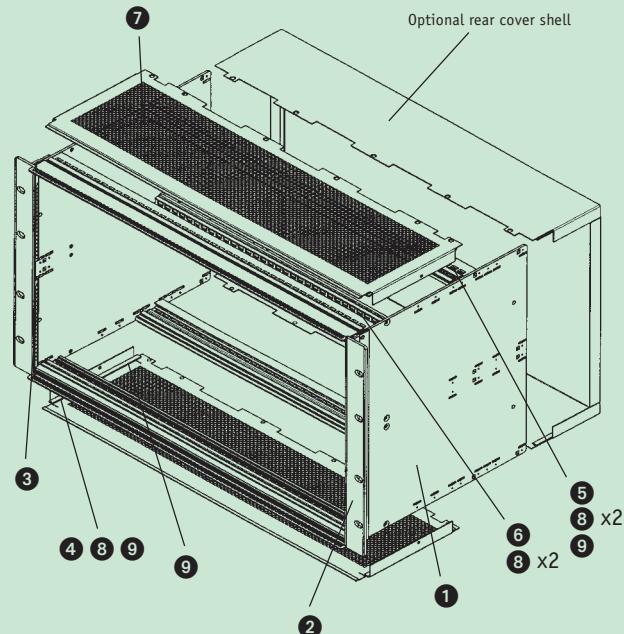
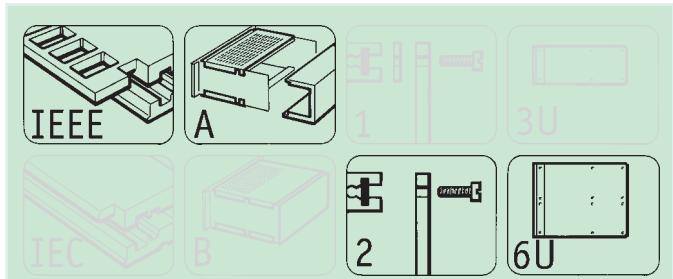
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2,5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 2 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEEE1101.10	Al extrusion, Clear chromate
⑤ 2 type 2 backplane extrusions	Al extrusion, Clear chromate
⑥ 1 type 2 centre backplane ext.	Al extrusion, Clear chromate
⑦ 2 EMC covers, ventilated pcb length	Mild steel 0,8mm CR4, Zinc plate and clear passivated
⑧ 8 tapped strips	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

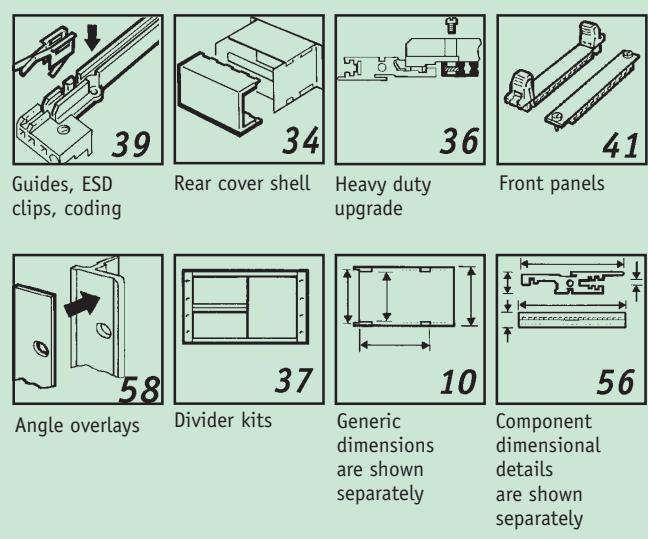
Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
6U x 84hp x 240	160	959-267641A
6U x 84hp x 300	160	959-267652G
6U x 84hp x 300	220	959-267644F
6U x 84hp x 360	220	959-267654C



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

Order Separately



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

TYPE 2 BACKPLANE EXTRUSIONS

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

Contents of kit

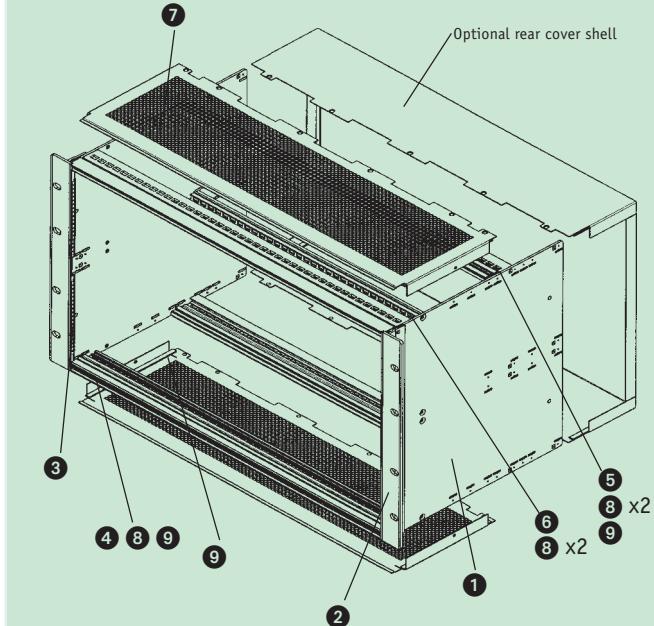
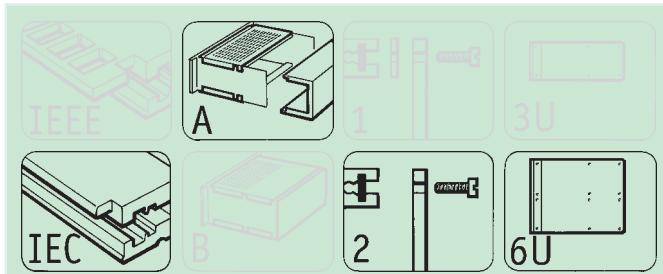
Key/Qty/Description	Material/Finish
1 2 end plates	Al alloy 2,5, Clear chromate
2 2 end plate angles	Al extrusion, Clear chromate
3 2 vertical EMC finger strip	Stainless steel, Natural
4 2 front extrusions IEC 60297-3	Al extrusion, Clear chromate
5 2 type 2 backplane extrusions	Al extrusion, Clear chromate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

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

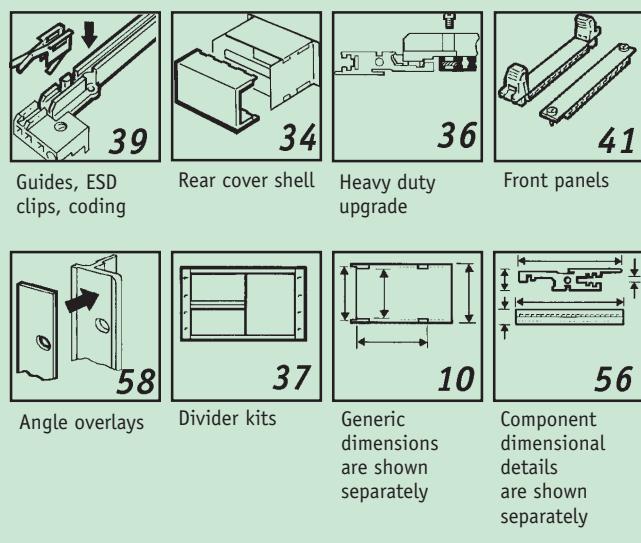
Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
6U x 84hp x 240	160	959-262247H
6U x 84hp x 300	160	959-262280K
6U x 84hp x 300	220	959-262249D
6U x 84hp x 360	220	959-262282F



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

Order Separately



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

TYPE 1 BACKPLANE EXTRUSIONS

- 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

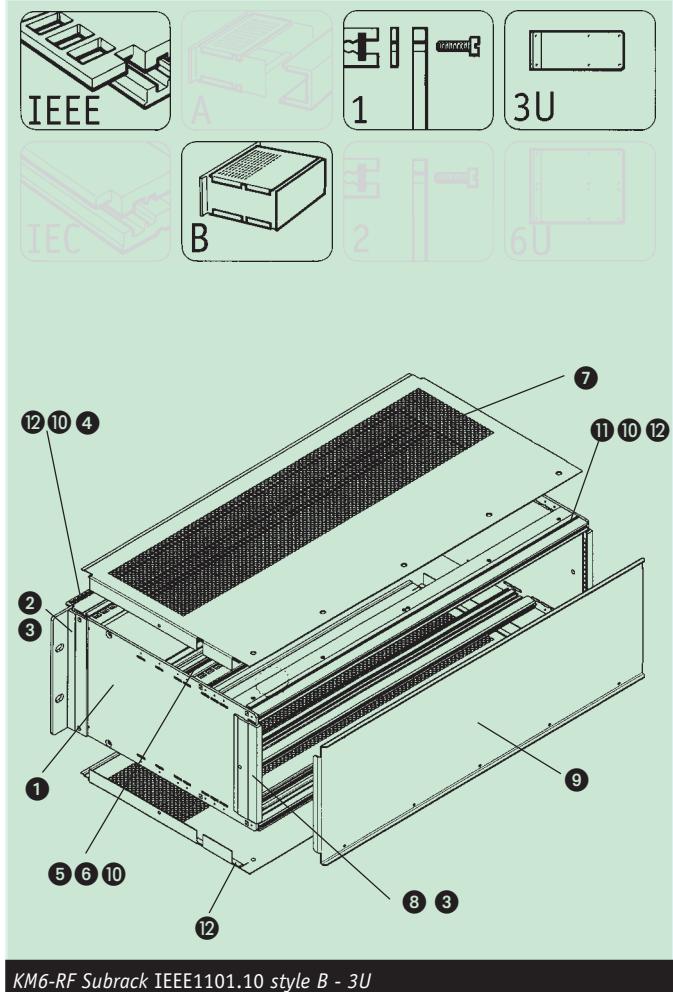
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2,5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 3 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEEE1101.10	Al extrusion, Clear chromate
⑤ 2 type 1 backplane extrusions	Al extrusion, Clear chromate
⑥ 2 insulating spacers	1mm PVC UL94 VO, Grey
⑦ 2 overall EMC covers, ventilated	Mild steel 0,8mm CR4, Zinc plate and clear passivated
⑧ 2 rear closing angles	Al extrusion, Clear chromate
⑨ 1 overall rear closing panel	Al alloy 1,2, Clear chromate
⑩ 6 tapped strips	Mild steel, Zinc plate and colour passivated
⑪ 2 rear extrusions	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

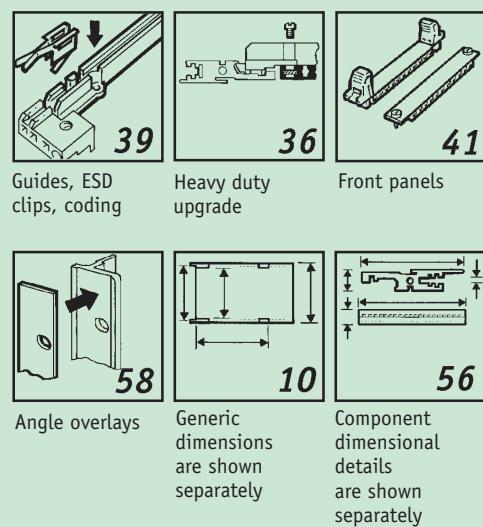
Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
3U x 84hp x 240	160	959-267632B
3U x 84hp x 300	160 or 220	959-267633L
3U x 84hp x 360	160 or 220	959-267634J



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

Order Separately



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

TYPE 1 BACKPLANE EXTRUSIONS

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

Contents of kit

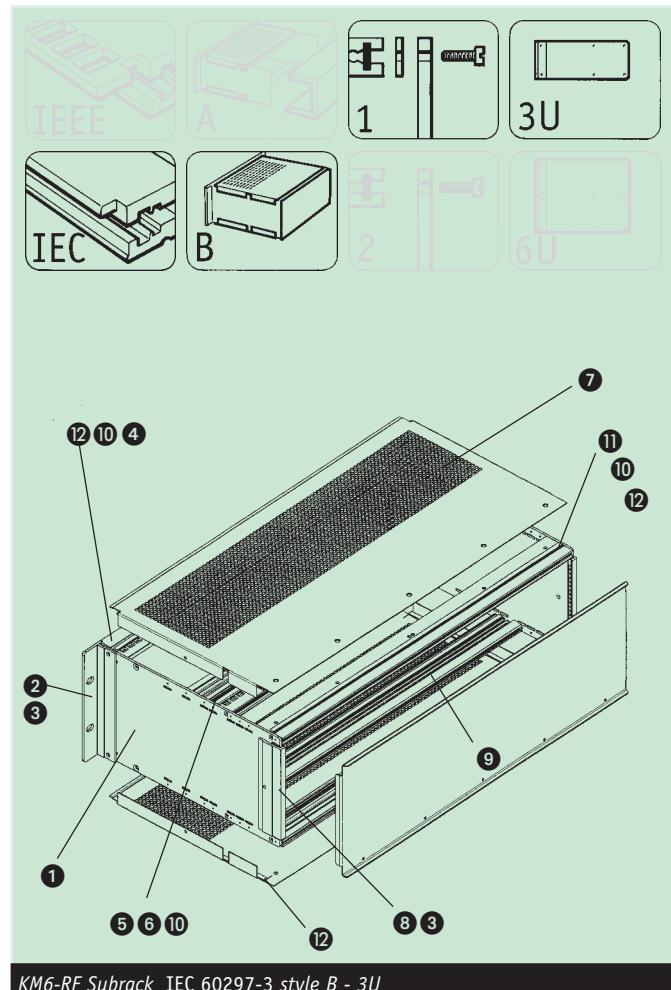
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2,5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 3 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEC60297-3	Al extrusion, Clear chromate
⑤ 2 type 1 backplane extrusions	Al extrusion, Clear chromate
⑥ 2 insulating spacers	1mm PVC UL94 V0, Grey
⑦ 2 overall EMC covers, ventilated	Mild steel 0,8mm CR4, Zinc plate and clear passivated
⑧ 2 rear closing angles	Al extrusion, Clear chromate
⑨ 1 overall rear closing panel	Al alloy 1,2, Clear chromate
⑩ 6 tapped strips	Mild steel, Zinc plate and colour passivated
⑪ 2 rear extrusions	Al extrusion, Clear chromate
⑫ Fabric cover seals*	Copper nickel over closed cell foam

Fixings and assembly instructions

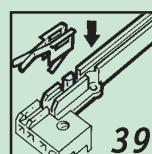
**Note: supplied fitted to covers and extrusions*

Ordering information

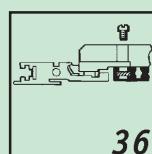
Nominal overall dimensions	Suitable for Eurocard depth	Order Code
3U x 84hp x 240	160	959-262240L
3U x 84hp x 300	160 or 220	959-262241J
3U x 84hp x 360	160 or 220	959-262242C



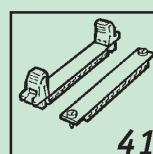
Order Separately



Guides, ESD
clips, coding



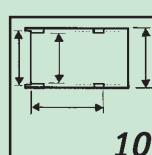
Heavy duty upgrade



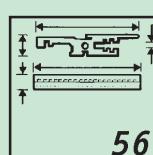
Front panels



Angle overlays



Generic dimensions are shown separately



Component
dimensional
details
are shown
separately

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

TYPE 1 BACKPLANE EXTRUSIONS

- 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

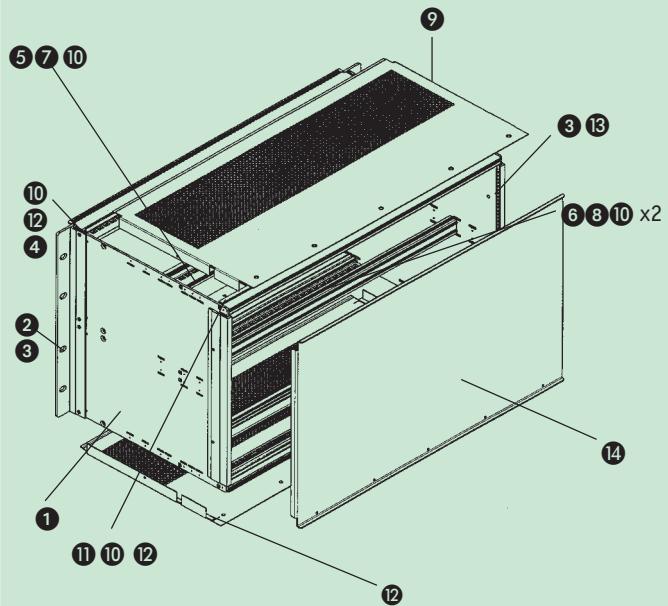
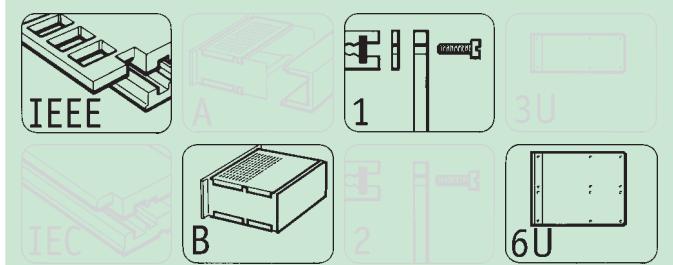
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2,5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 4 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEEE1101.10	Al extrusion, Clear chromate
⑤ 2 type 1 backplane extrusions	Al extrusion, Clear chromate
⑥ 1 type 1 centre backplane ext.	Al extrusion, Clear chromate
⑦ 2 single level insulating spacers	1mm PVC UL94 VO, Grey
⑧ 1 two level insulating spacer	1mm PVC UL94 VO, Grey
⑨ 2 overall EMC, covers, ventilated	Mild steel 0,8mm CR4, Zinc plate and clear passivated
⑩ 8 tapped strips	Mild steel, Zinc plate and colour passivated
⑪ 2 rear extrusions	Al extrusion, Clear chromate
⑫ Fabric cover seals*	Copper nickel over closed cell foam
⑬ 2 rear closing angles	Al extrusion, Clear chromate
⑭ 1 overall closing panel	Al alloy 2,5, Clear chromate

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
6U x 84hp x 240	160	959-267635G
6U x 84hp x 300	160 or 220	959-267636E
6U x 84hp x 360	160 or 220	959-267637C



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

Order Separately

39	36	41	58
Guides, ESD clips, coding	Heavy duty upgrade	Front panels	Angle overlays
37	10	56	
Divider kits	Generic dimensions are shown separately	Component dimensional details are shown separately	

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

TYPE 1 BACKPLANE EXTRUSIONS

- 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

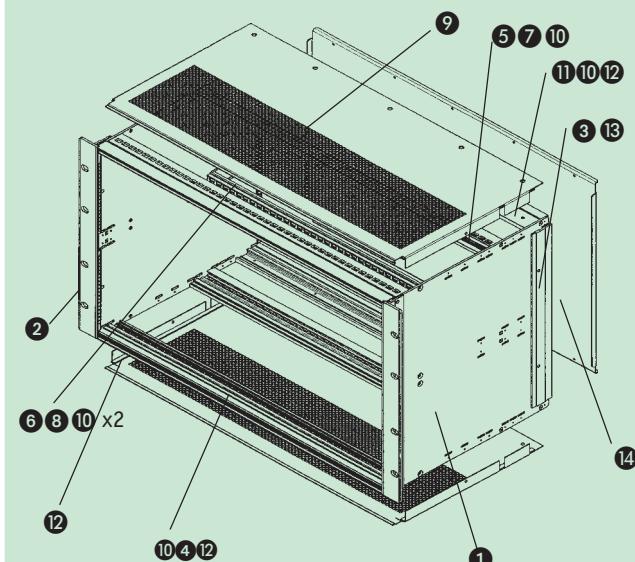
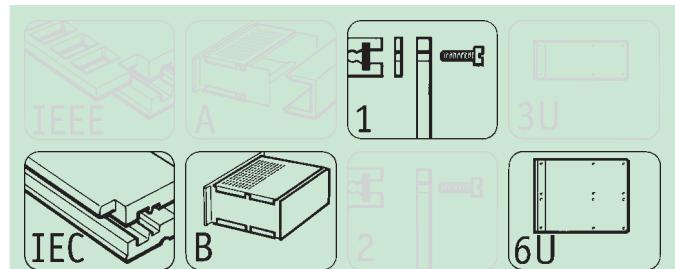
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2,5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 4 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEC 60297-3	Al extrusion, Clear chromate
⑤ 2 type 1 backplane extrusions	Al extrusion, Clear chromate
⑥ 1 type 1 centre backplane ext.	Al extrusion, Clear chromate
⑦ 2 single level insulating spacers	1mm PVC UL94 V0, Grey
⑧ 1 two level insulating spacer	1mm PVC UL94 V0, Grey
⑨ 2 overall EMC, covers, ventilated	Mild steel 0,8mm CR4, Zinc plate and clear passivated
⑩ 8 tapped strips	Mild steel, Zinc plate and colour passivated
⑪ 2 rear extrusions	Al extrusion, Clear chromate
⑫ Fabric cover seals*	Copper nickel over closed cell foam
⑬ 2 rear closing angles	Al extrusion, Clear chromate
⑭ 1 overall closing panel	Al alloy 2,5, Clear chromate

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
6U x 84hp x 240	160	959-262243E
6U x 84hp x 300	160 or 220	959-262244C
6U x 84hp x 360	160 or 220	959-262245A



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

Order Separately

	39	Guides, ESD clips, coding
	36	Heavy duty upgrade
	41	Front panels
	58	Angle overlays
	37	Divider kits
	10	Generic dimensions are shown separately
	56	Component dimensional details are shown separately

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

TYPE 2 BACKPLANE EXTRUSIONS

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

Contents of kit

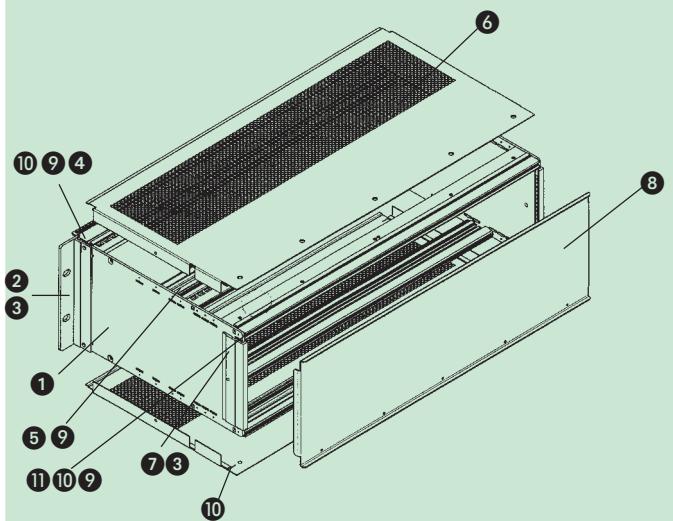
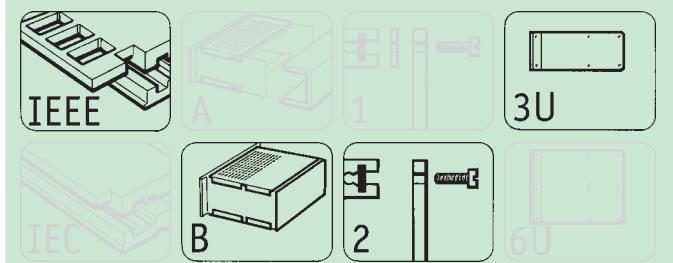
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2.5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 3 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEEE1101.10	Al extrusion, Clear chromate
⑤ 2 type 2 backplane extrusions	Al extrusion, Clear chromate
⑥ 2 overall EMC covers, ventilated	Mild steel 0.8mm CR4, Zinc plate and clear passivated
⑦ 2 rear closing angles	Al extrusion, Clear chromate
⑧ 1 overall rear closing panel	Al alloy 1.2, Clear chromate
⑨ 6 tapped strips	Mild steel, Zinc plate and colour passivated
⑩ Fabric cover seals*	Copper nickel over closed cell foam
⑪ 2 rear extrusions	Al extrusion, Clear chromate

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

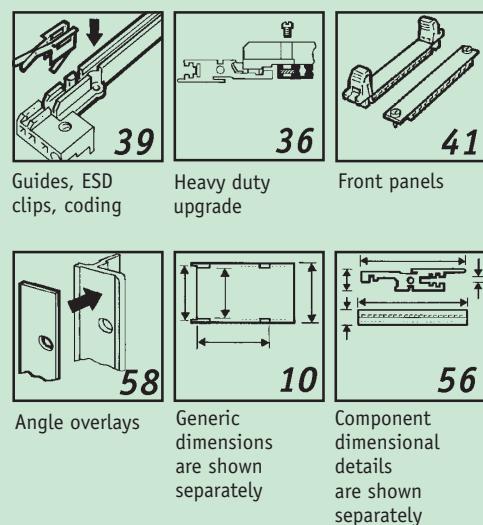
Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
3U x 84hp x 240	160	959-267645D
3U x 84hp x 300	160 or 220	959-267646B
3U x 84hp x 360	160 or 220	959-267647L



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

Order Separately



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

TYPE 2 BACKPLANE EXTRUSIONS

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

Contents of kit

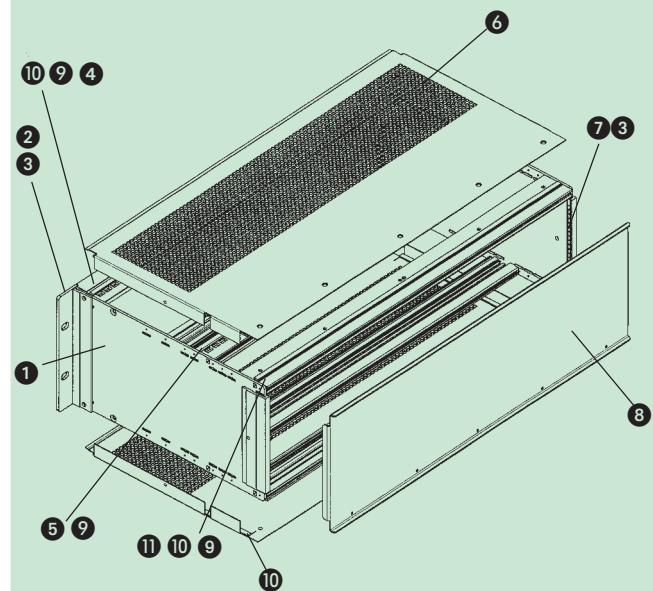
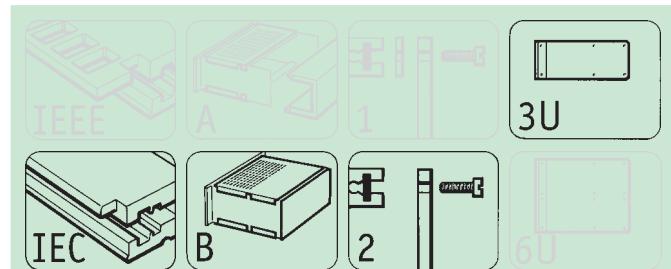
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2,5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 3 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEC60297-3	Al extrusion, Clear chromate
⑤ 2 type 2 backplane extrusions	Al extrusion, Clear chromate
⑥ 2 overall EMC covers, ventilated	Mild steel 0,8mm CR4, Zinc plate and clear passivated
⑦ 2 rear closing angles	Al extrusion, Clear chromate
⑧ 1 overall rear closing panel	Al alloy 1,2, Clear chromate
⑨ 6 tapped strips	Mild steel, Zinc plate and colour passivated
⑩ Fabric cover seals*	Copper nickel over closed cell foam
⑪ 2 rear extrusions	Al extrusion, Clear chromate

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

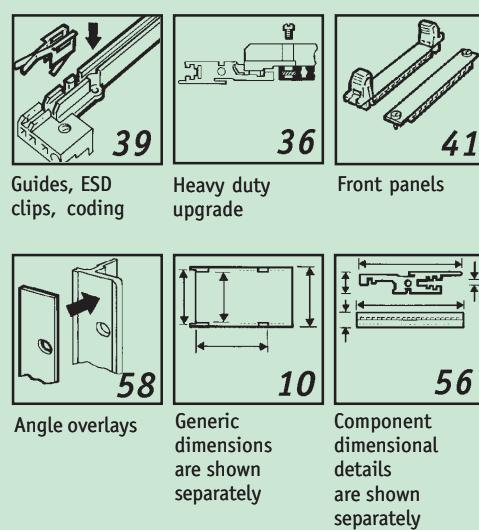
Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
3U x 84hp x 240	160	959-262250H
3U x 84hp x 300	160 or 220	959-262251F
3U x 84hp x 360	160 or 220	959-262252D



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

Order Separately



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

TYPE 2 BACKPLANE EXTRUSIONS

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

Contents of kit

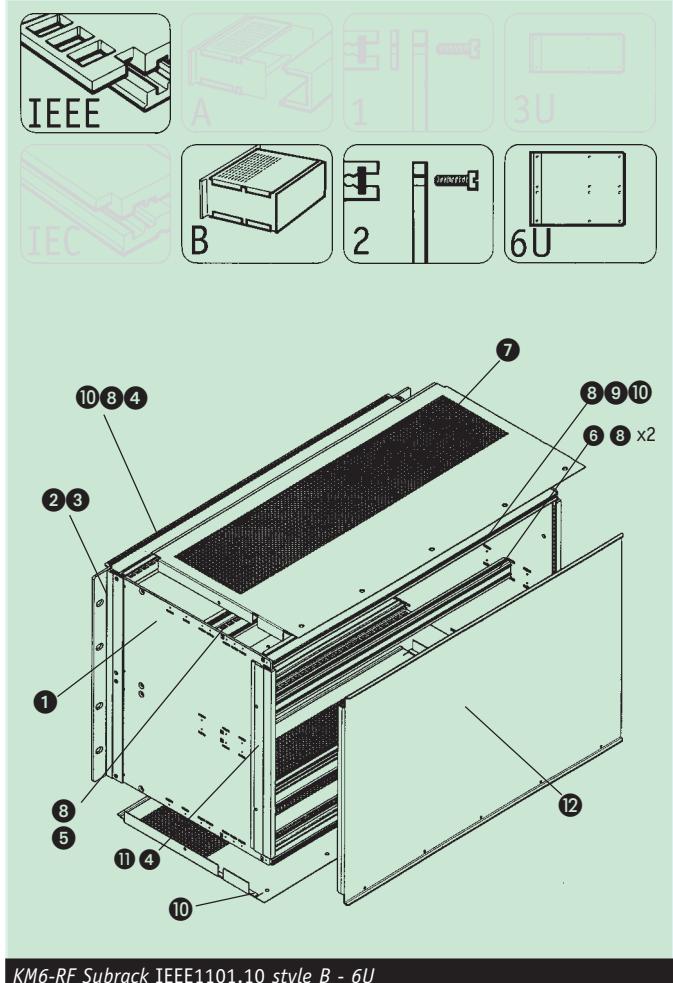
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2.5, Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 4 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEEE1101.10	Al extrusion, Clear chromate
⑤ 2 type 2 backplane extrusions	Al extrusion, Clear chromate
⑥ 1 type 2 centre backplane ext.	Al extrusion, Clear chromate
⑦ 2 Overall EMC covers, ventilated	Mild steel 0,8mm CR4, Zinc plate and clear passivated
⑧ 8 tapped strips	Mild steel, Zinc plate and colour passivated
⑨ 2 rear extrusions	Al extrusion, Clear chromate
⑩ Fabric cover seals*	Copper nickel over closed cell foam
⑪ 2 rear closing angles	Al extrusion, Clear chromate
⑫ 1 rear closing panel	Al alloy 1,2, Clear chromate

Fixings and assembly instructions

*Note: supplied fitted to covers and extrusions

Ordering information

Nominal overall dimensions	Suitable for Eurocard depth	Order Code
6U x 84hp x 240	160	959-267648J
6U x 84hp x 300	160 or 220	959-267649G
6U x 84hp x 360	160 or 220	959-267650L



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

Order Separately

39	36	41	58
Guides, ESD clips, coding	Heavy duty upgrade	Front panels	Angle overlays
37	10	56	
Divider kits	Generic dimensions are shown separately	Component dimensional details are shown separately	

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

TYPE 2 BACKPLANE EXTRUSIONS

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

Contents of kit

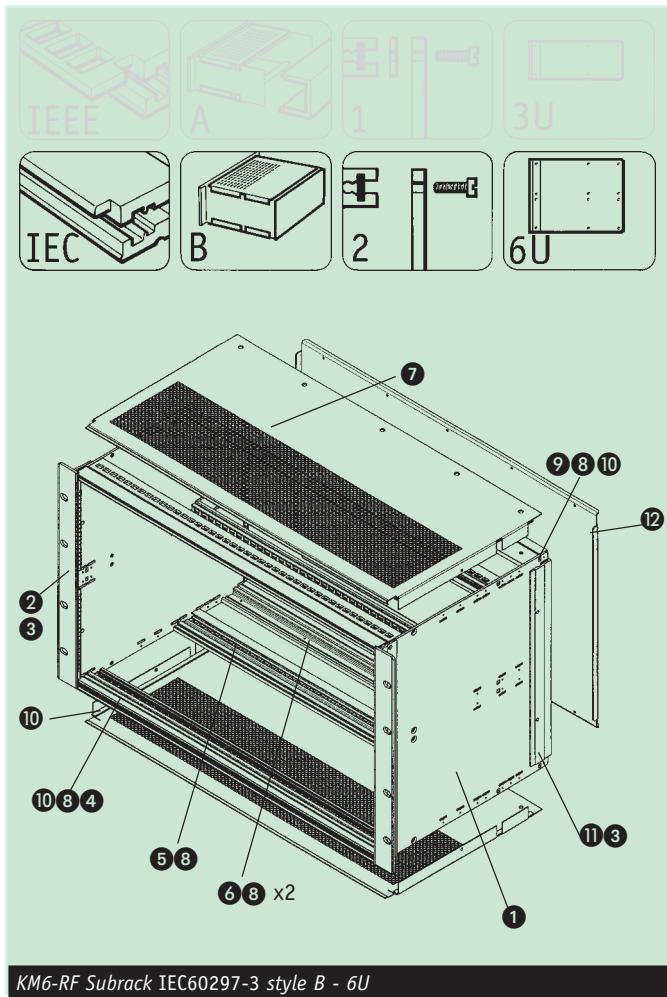
Key/Qty/Description	Material/Finish
① 2 end plates	Al alloy 2,5. Clear chromate
② 2 end plate angles	Al extrusion, Clear chromate
③ 4 vertical EMC finger strip	Stainless steel, Natural
④ 2 front extrusions IEC60297-3	Al extrusion, Clear chromate
⑤ 2 type 2 backplane extrusions	Al extrusion, Clear chromate
⑥ 1 type 2 centre backplane ext.	Al extrusion, Clear chromate
⑦ 2 Overall EMC covers, ventilated	Mild steel 0,8mm CR4, Zinc plate and clear passivated
⑧ 8 tapped strips	Mild steel, Zinc plate and colour passivated
⑨ 2 rear extrusions	Al extrusion, Clear chromate
⑩ Fabric cover seals*	Copper nickel over closed cell foam
⑪ 2 rear closing angles	Al extrusion, Clear chromate
⑫ 1 rear closing panel	Al alloy 1,2, Clear chromate

Fixings and assembly instruction

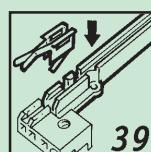
**Note: supplied fitted to covers and extrusions*

Ordering information

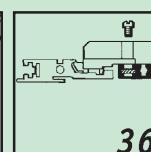
Nominal overall dimensions	Suitable for Eurocard depth	Order Code
6U x 84hp x 240	160	959-262253B
6U x 84hp x 300	160 or 220	959-262254L
6U x 84hp x 360	160 or 220	959-262255J



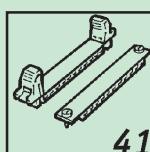
Order Separately



Guides, ESD
clips, coding



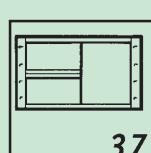
Heavy duty
upgrade



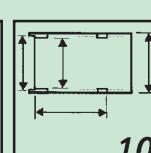
Front panels



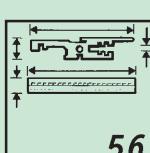
Angle overlays



Divider kits



Generic dimensions
are shown
separately



Component
dimensional
details
are shown
separately

KM6-RF subracks *IEEE1101.11* style B-3U, 6U and 9U heights

TYPE 1 OR TYPE 2 MIDPLANE EXTRUSIONS

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

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. For the selection of suitable parts, please see the table on the following page. Other variations are available as specials - please contact our local sales office.

Contents of kit

BASIC FRAME

Key/Qty/Description	Material/Finish
● 2 end plate angles	Al extrusion, clear chromate
● 2 rear closing angles	Al extrusion, clear chromate
● Vertical EMC fingers	Stainless steel
● 4 IEEE1101.10 extrusions	Al extrusion, clear chromate
● 8 tapped strips	Steel, Zinc plate and colour passivate
● 2 top/bottom covers, 160 PCB type	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.

● 1 End plates: 20 end plates Al alloy 2,5mm, Clear chromate

● 8 EMC rear section covers: 20 covers Steel 0,8mm CR4, Zinc plate and clear passivate

Suitable fabric seals and fixings

● 10 Guides :

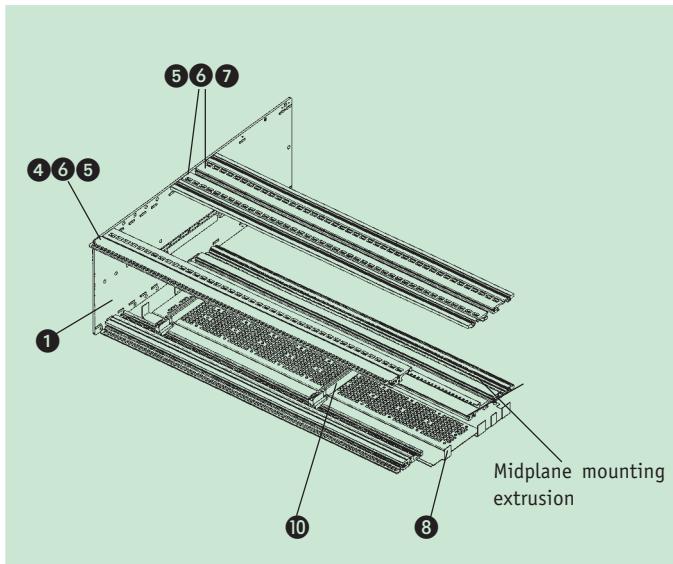
160 and 100mm types:

10 guides Luranyl 2452/1 green (UL94-V1)
or Noryl HE185 grey (UL94-V0)

60, 80, 120, 140mm types:

50 pairs guides Noryl HE185 grey (UL94-V0)

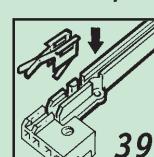
● = Not shown, see previous pages for typical examples.



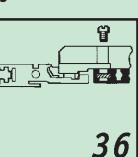
Partial details only

Rear plug up components for IEEE 1101.11 applications

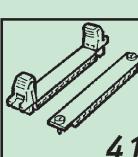
Order Separately



Guides, ESD
clips, coding



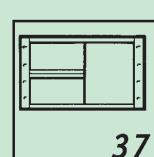
Heavy duty
upgrade



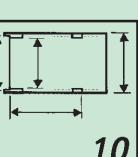
Front panels



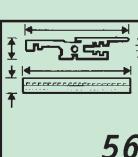
Angle overlays



Divider kits



Generic
dimensions
are shown
separately



Component
dimensional
details
are shown
separately

KM6-RF subracks IEEE1101.11 style B-3U, 6U and 9U heights

TYPE 1 OR TYPE 2 MIDPLANE EXTRUSIONS

Ordering information

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.

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.

Front/rear plug up combination >		160/160	160/140	160/120	160/100	160/80	160/60
Description	Size	Order code					
A Basic frame each	3U	959-275800L	959-275806K	959-275806K	959-275800L	959-275806K	959-275806K
	with Type 1	959-275801J	959-275807H	959-275807H	959-275801J	959-275807H	959-275807H
	mid plane extrusion	959-275802G	959-275808F	959-275808F	959-275802G	959-275808F	959-275808F
B Basic frame each	3U	959-275803E	959-275809D	959-275809D	959-275803E	959-275809D	959-275809D
	with Type 2	959-275804C	959-275810H	959-275810H	959-275804C	959-275810H	959-275810H
	mid plane extrusion	959-275805A	959-275811F	959-275811F	959-275805A	959-275811F	959-275811F
C End plate Pk 20	3U	959-275812D	959-275813B	959-275814L	959-275815J	959-275816G	959-275817E
	6U	959-275818C	959-275819A	959-275820E	959-275821C	959-275822A	959-275823K
	9U	959-275824H	959-275825F	959-275826D	959-275827B	959-275828L	959-275829J
D Rear EMC cover pk 20	3U/6U/9U	959-275830B	959-275831L	959-275832J	959-275833G	959-275834E	959-275835C
E Front guides pk 10 UL94-V1	160	950-232662J	950-232662J	950-232662J	950-232662J	950-232662J	950-232662J
Front guides pk 10 UL94-V0	160	950-277491E	950-277491E	950-277491E	950-277491E	950-277491E	950-277491E
F Rear p/u guides pk 50prs UL94-V0	-	959-275836A	959-275837K	-	959-275838H	959-275839F	
Rear p/u guides pk 10 UL94-V1	160	950-232662J	-	-	950-242850B	-	-
Rear p/u guides pk 10 UL94-V0	160	950-277491E	-	-	-	-	-

Note: those items appearing in the tinted panels are preferred combinations

KM6-RF Subrack - Accessories

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

eg 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

Qty/Description	Material/Finish
1 Cover	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 x 84hp x 60mm	160/240, 220/300	959-262262A
3U x 84hp x 120mm	160/300, 220/360	959-262263K
6U x 84hp x 60mm	160/240, 220/300	959-262264H
6U x 84hp x 120mm	160/300, 220/360	959-262265F

HORIZONTAL EMC FINGER STRIP

- Provides sealing between the front extrusion and the inside face of front panels.

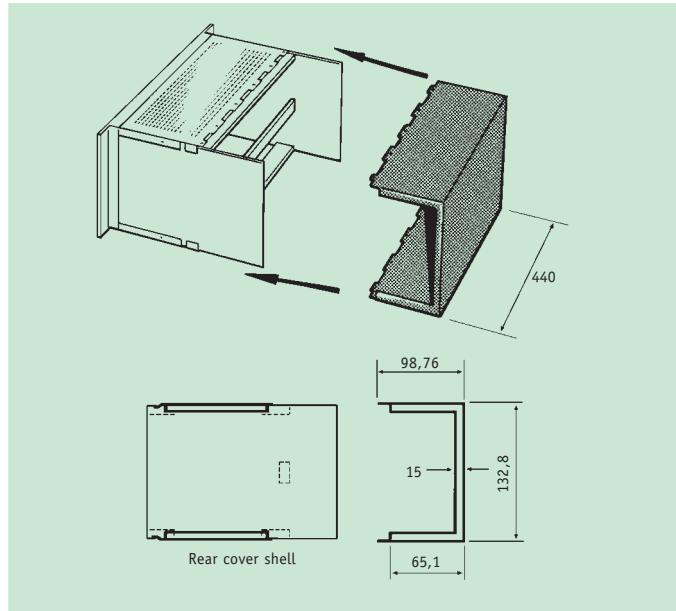
These strips have a self adhesive angle and are stuck to the inside face of the extrusions.

Contents of kit

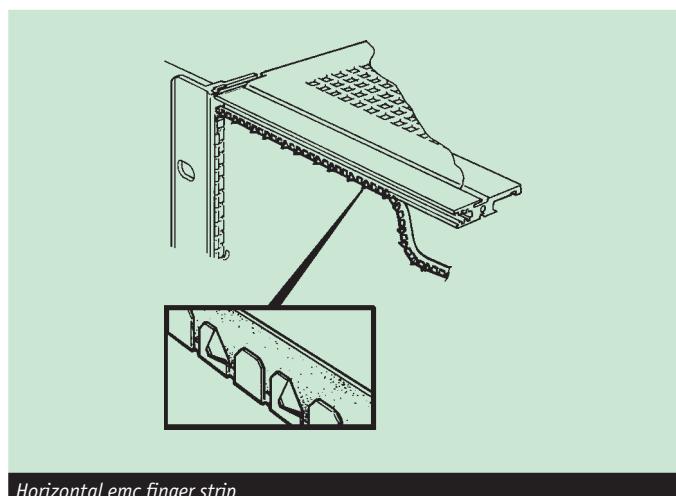
Qty/Description	Material/Finish
10 fingers	Stainless steel

Ordering information

Nominal dimensions	Order code
84hp	959-262225G



Rear Cover Shell for STYLE A



Horizontal emc finger strip

KM6-RF Subrack - Accessories

FIRE ENCLOSURE COVER

- n Addresses the Fire Enclosure requirements set out in EN60950.
- n Replaces a normal, ventilated EMC cover (normally at the bottom only).

Contents of kit

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

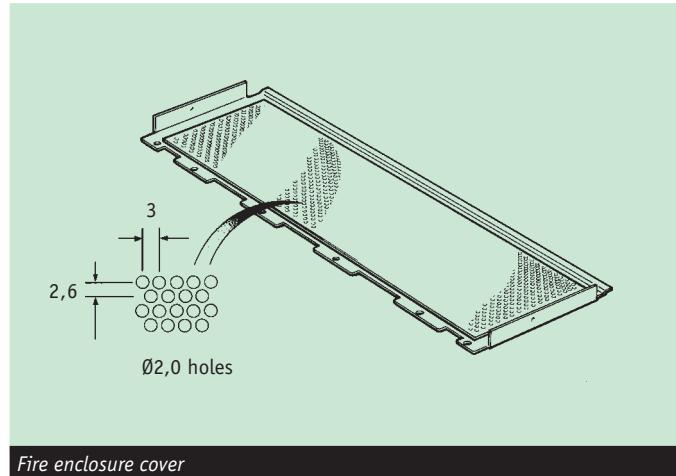
Ordering information

For style A configurations (ie PCB depth covers):

Nominal dimension	Order code
160 x 84hp	959-262215K
220 x 84hp	959-262216H

For style B configurations (ie overall subrack covers):

Nominal dimensions	
240mm x 84hp	959-262217F
300mm x 84hp	959-262218D
360mm x 84hp	959-262219B



Fire enclosure cover

KM6-RF Subrack - Accessories

DIN 41612 CONNECTOR MOUNTING

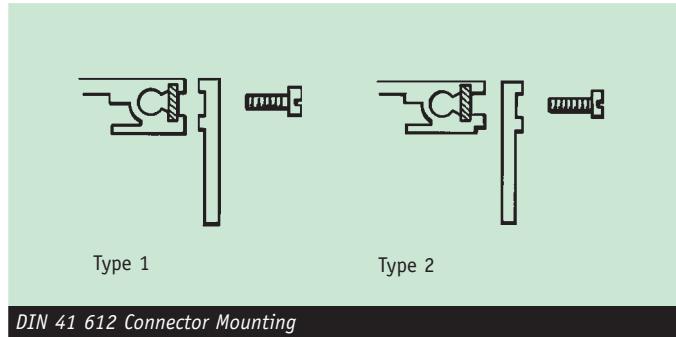
- Converts backplane extrusions to direct mounting
- Reversible for Type 1 or Type 2 extrusions
- Can be easily cut to length for shorter applications
- Connector fixing to pre-tapped M2,5 holes

Contents of kit

Qty/Description	Material/Finish
1 Extrusion	Al extrusion Clear chromate
4 M2,5 fixing screws	

Ordering Information

Nominal dimensions	Order Code
84hp	959-262239G



SUPPORT EXTRUSION - HEAVY DUTY UPGRADE

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

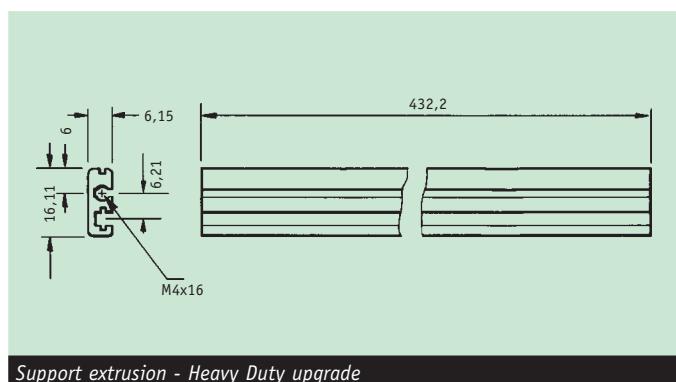
This extrusion attaches behind the front extrusion. Guides can be screwed down to the horizontal tapped strip via M2,5 x 5mm security fixing screws.

Contents of kit

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

Ordering information

Nominal dimensions	Order Code
84hp	959-262236B
Pack 100 security fixing screws	173-202579H



ETSI RACK MOUNTING ANGLE

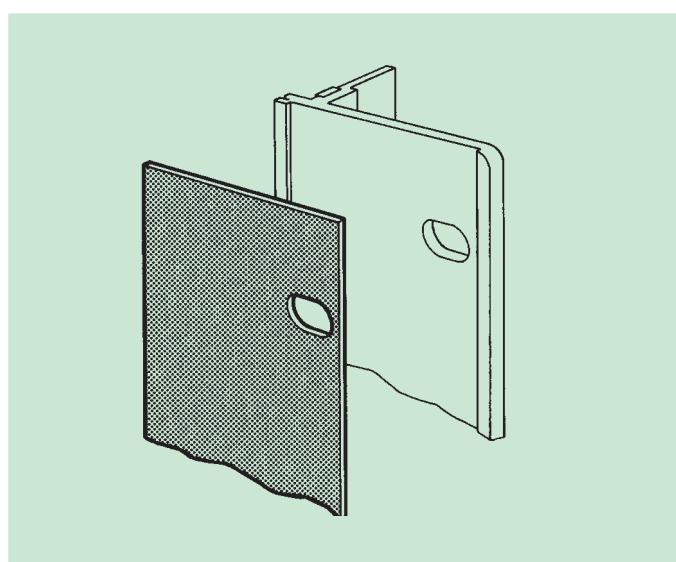
- Permits mounting of 84hp subracks into ETSI mounts
- Replaces conventional 19inch end plate angles
- Self adhesive Light Grey overlays available

Contents of kit

Qty/Description	Material/Finish
ETSI rack mounting:	
1 End plate angle	Al extrusion, Clear chromate
Overlays:	
10 overlays	Polyester 0,2mm, RAL 7035 Light Grey
Polyester is a UL94.VI rated material	

Ordering information

Nominal dimensions	Order Code
3U	ETSI end plate angle
6U	ETSI end plate angle
3U	Overlay (pk 10)
6U	Overlay (pk 10)



KM6-RF Subrack - Accessories

DIVIDER KIT, 2 X 3U X 84HP

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

Contents of kit

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

Ordering information

Nominal width	Extrusion type	Order code
84hp	IEEE1101.10	959-278050B
84hp	IEC 60297-3	959-262270B

DIVIDER KIT, MIXED HEIGHTS

- Permits integration of single and double Eurocards
- No additional rear extrusions required
- Includes EMC screening member
- 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.

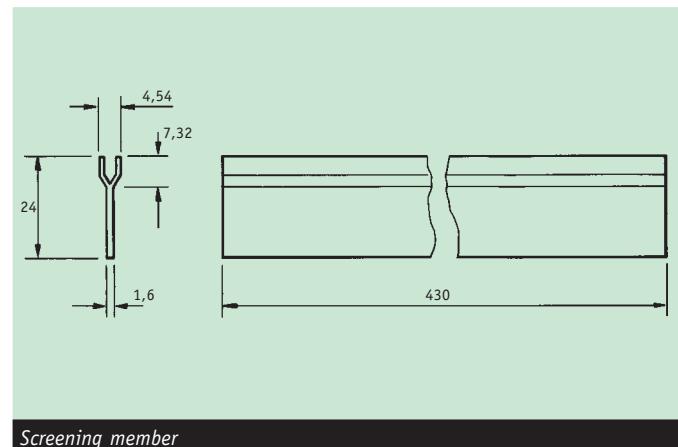
The 6U section is reduced by 2hp (eg 42hp 3U section leaves 40hp of 6U)

Contents of kit

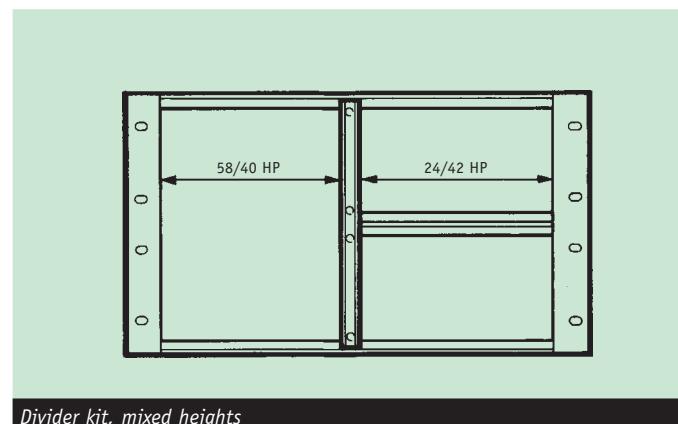
Qty/Description	Material/Finish
2 extrusions	Al extrusion, Clear chromate
1 divider plate assembly	Al sheet/al extrusion Clear chromate
2 vertical EMC finger strips	Stainless steel
1 location moulding	
1 screening member	Al extrusion, Clear chromate
2 tapped strips	Steel, Zinc and colour passivate
Fixings and assembly instructions	

Ordering information

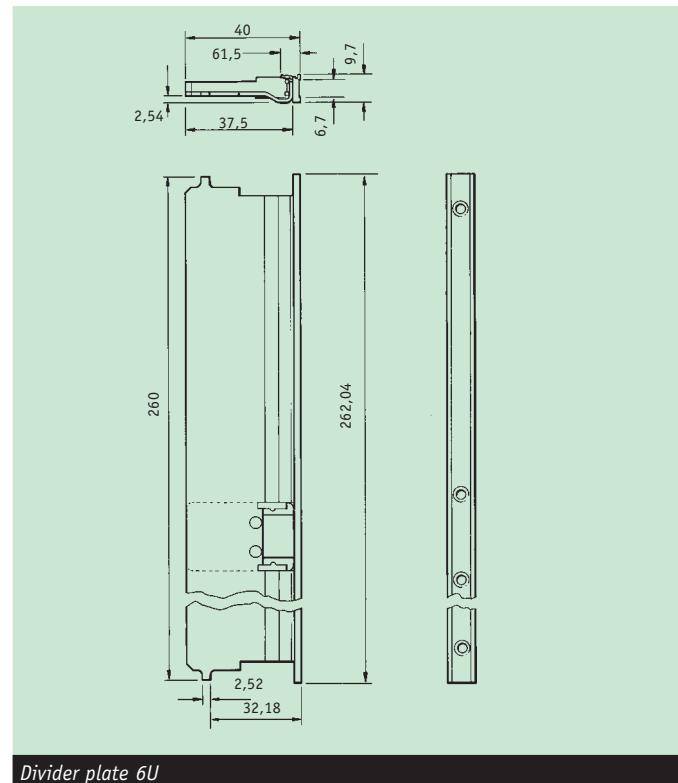
Nominal width of 3U section	Front extrusion type	Order code
24hp	IEC 60297-3	959-262268L
42hp	IEC 60297-3	959-262269J
24hp	IEEE1101.10	959-278052J
42hp	IEEE1101.10	959-278054E



Screening member



Divider kit, mixed heights



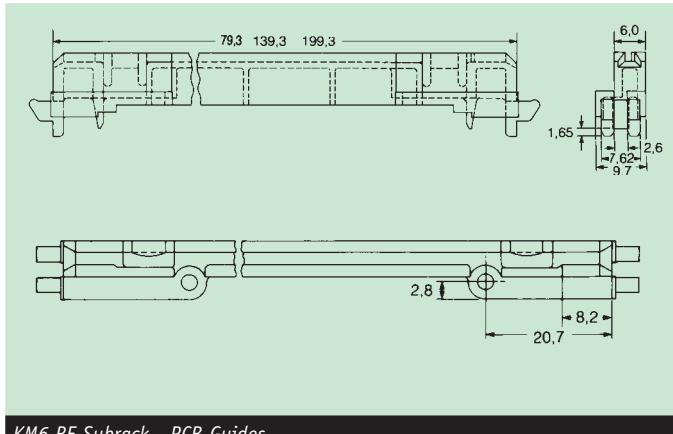
Divider plate 6U

KM6-RF Subrack - PCB Guides

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

Contents of kit

Item/Description	Material/Finish
	UL94 flammability rating / yellow cardno.
Guides, Pack of 10	Luranyl 2452/1, green V1 / E41871 Noryl HF185, lt grey V0 / E45329(R) Noryl HF185, red V0 / E45329(R)



KM6-RF Subrack - PCB Guides

Ordering information

UL94-	Colour	PCB length	Order code
V1	Green	100mm	950-242850B
V1	Green	160mm	950-232662J
V1	Green	220mm	950-232663G
V0	Light grey	160mm	950-277491E
V0	Light grey	220mm	950-277494K
V0	Red	160mm	950-277496F

PCB GROUNDING CLIPS

- 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, 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.

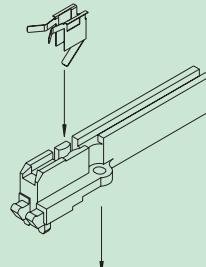
Contents of kit

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

Ordering information

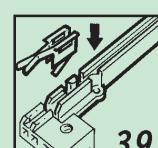
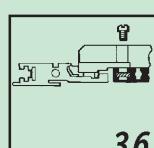
	Order code
PCB grounding clip	950-251366F

PCB GROUNDING CLIP



PCB Grounding clip

Order Separately

	39		36
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Guides, ESD
clips, coding

Heavy duty
upgrade

KM6-RF Subrack - PCB Guides

CODING AND GROUNDING DEVICE ACCORDING TO IEEE1101.10 & 11

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

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.

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.

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

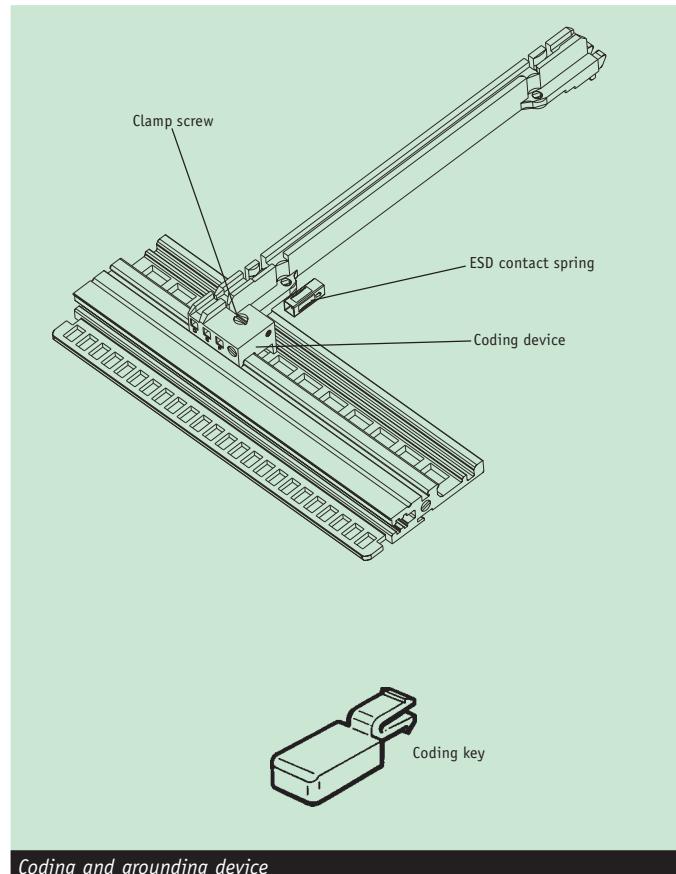
Coding keys should be ordered separately

Contents of kit

Item/Description	Material/Finish
Coding device option	
10 die castings	Zinc alloy BS1004, Bright nickel plate
Clamp screws	
ESD contact option	
10 springs	Stainless steel
Coding key option	
100 keys	

Ordering information

Description	Order code
Frame mounted coding device, (pk10) D.E.F.	959-277039F
Frame mounted coding device, (pk10) A.B.C.	959-277040K
ESD spring, pk10	959-277034E
Coding keys (pk 100)	959-277032J



Coding and grounding device

KM6-RF subrack accessories

PANEL MOUNTING KIT

KM6-EC COMPATIBLE

- 3U and 6U x 84hp & 42hp
- Conceals panel cutouts for good aesthetics

Commonly required in machine tool, security and process control applications, these kits enable the user to mount standard 19", or half 19", subracks into a panel, rather than normal 19" racks.

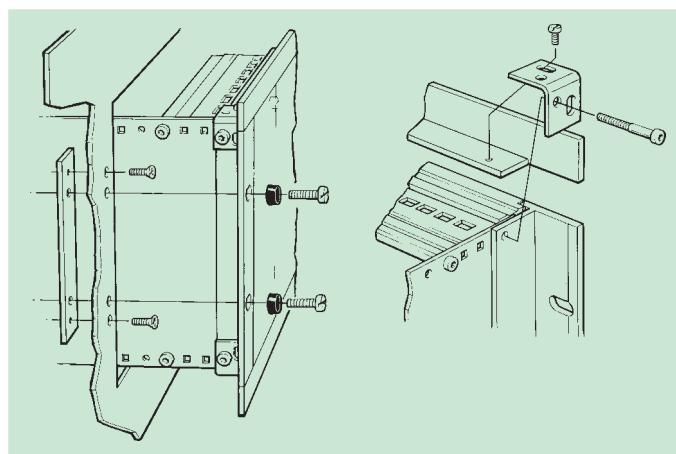
The top and bottom trim extrusions are attached to the subrack. By fitting the fixing plates behind the panel the subrack can be retained via its normal fixing holes. A suitable panel cutout is therefore masked by the trim mounting angles.

Contents of kit

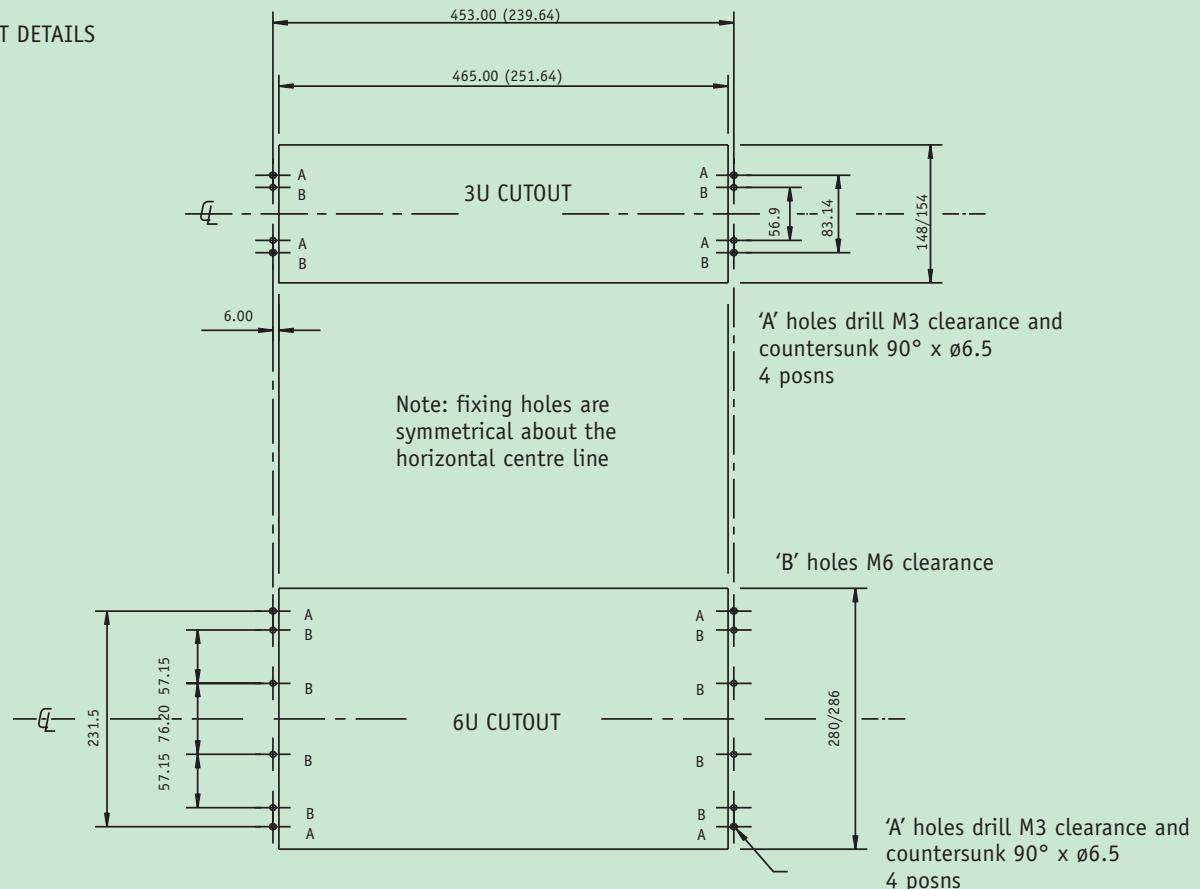
Key/Qty/Description	Material/Finish
2 trim extrusions	Etched and anodised
4 trim kit brackets	Raw aluminium
2 fixing plates	Unfinished steel
All fixings	
4 (3U) or (8U) chrome mounting screws and plastic cup washers	

Ordering information

Description	Order code
Subrack panel mounting kit 3U x 84hp	950-262382H
Subrack panel mounting kit 6U x 84hp	950-262383F
Subrack panel mounting kit 3U x 42hp	950-267391D
Subrack panel mounting kit 6U x 42hp	950-267392B



PANEL CUTOUT DETAILS



KM6-RF Front Panels - *IEEE1101.10 and .11*

- Latest industry standard front panel geometry
- Stainless steel EMC fingers
- Various handle options
- Plain blanking versions
- 4,5,6,8,10 and 12hp available
- Clear chromate finish or with polyester overlays
- Full custom service available
- Supplied in component or kit form

This range of front panels complies with the latest IEEE1101.10 geometry

Versions are available for a range of handle options and should be selected from the accompanying tables. See next page.



KM6-RF Front Panels - IEEE1101.10 and .11

KM6-RF Front panels

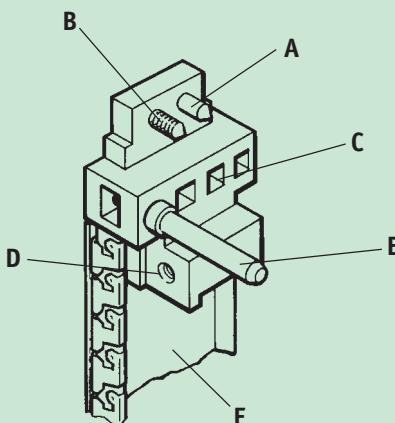
OPTION

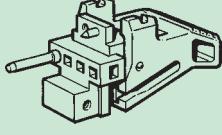
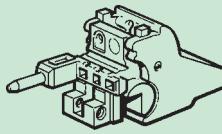
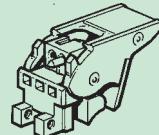
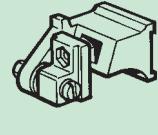
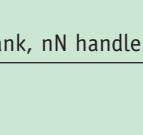
This table is intended to help you select the most suitable combination of handles and front panels.

Key

- A Pre-location pin
- B Captive screw
- C Coding
- D Card mounting
- E ESD/alignment pin
- F Front panel with EMC fingers

Stylised picture only



Feature	A	B	C	D	E	F	Page nN.
Handle type							
							
'LC' InjectNr/extractNr	N	N	N	N	N	Y	43
	Y	Y	Y	Y	Y	N	44
	Y	Y	Y	Y	N	N	44
	N	Y	Y	Y	Y	N	44
	N	Y	Y	Y	N	Y	47
	Y	Y	Y	Y	N	Y	47
							
'MC' InjectNr/extractNr	N	N	N	N	N	Y	43
	N	Y	Y	Y	Y	N	45
	Y	Y	N	Y	N	N	45
	N	Y	Y	Y	Y	Y	48
	Y	Y	N	Y	N	Y	48
							
'K' InjectNr/extractNr	N	N	N	N	N	Y	43
	Y	Y	N	Y	N	N	46
	Y	Y	N	Y	N	Y	49
							
EjectNr Nnly, IEC	N	Y	N	N	Y	N	52
							
Fixed handle	N	Y	N	N	N	Y	53
							
Blank, nN handle facility	N	N	N	N	N	Y	51

KM6-RF Front panels - IEEE1101.10 and .11 compliant

FRONT PANEL ONLY

VERO's latest range of panels are manufactured from extruded aluminium and can be supplied in clear chromate form or with a light grey polyester overlay. These panels are cut out to accept a number of injector/ extractor variants which should be ordered separately. The injector/ extractors simply and quickly push fit and are retained by means of spring sprags, no screw being necessary. 3U panels accept an injector/ extractor at the bottom only. A separate card mounting bracket (plastic or metal) is required for the top position.

A limited range of the most popular sizes is available in complete kit form for ease of ordering.

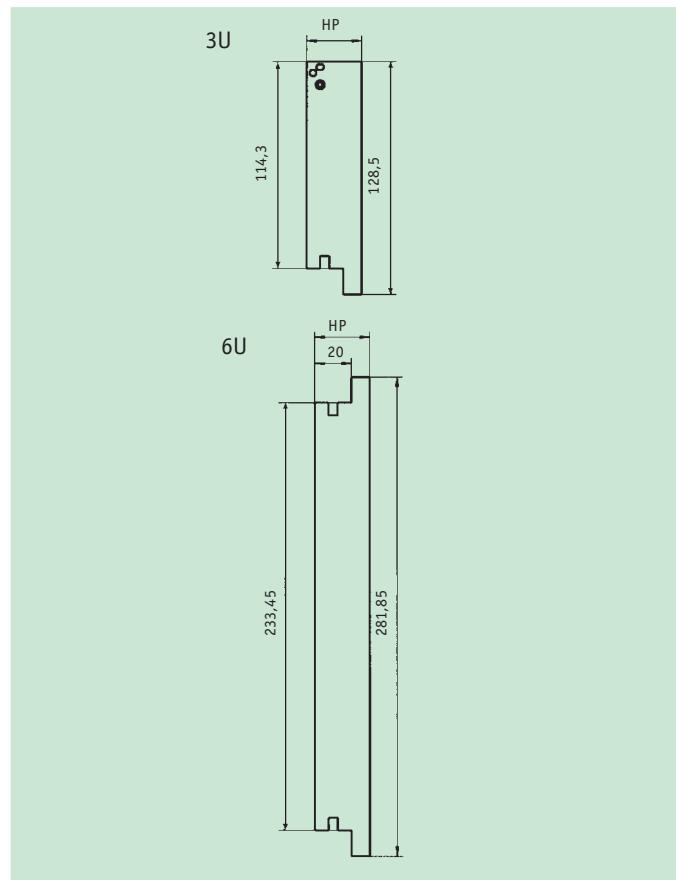
Contents of kit

Item/Description	Material/Finish
1 front panel	Aluminium extrusion ,Clear chromate
EMC finger strip (fitted)	Stainless steel
Overlay (if fitted)	0,2mm polyester Light grey

Ordering information

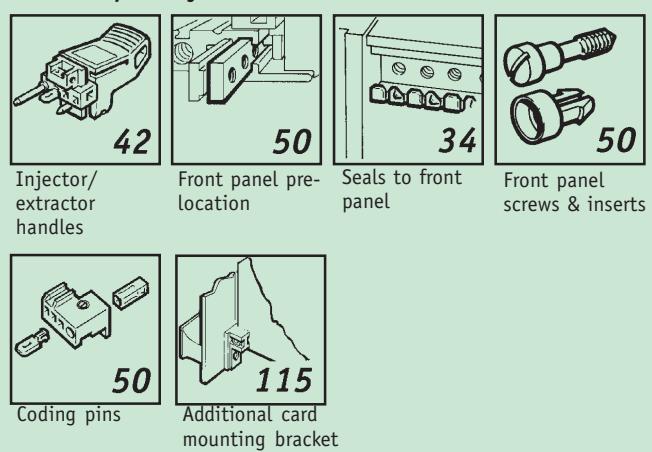
Clear chromate finish

H x W	Clear chromate finish	Polyester overlay RAL 7035
3U 4hp	951-263840B	951-263852F
3U 5hp	951-263841L	951-263853D
3U 6hp	951-263842J	951-263854B
3U 8hp	951-263843G	951-263855L
3U 10hp	951-263844E	951-263856J
3U 12hp	951-263845C	951-263857G
6U 4hp	951-263846A	951-263858E
6U 5hp	951-263847K	951-263859C
6U 6hp	951-263848H	951-263860G
6U 8hp	951-263849F	951-263861E
6U 10hp	951-263850K	951-263862C
6U 12hp	951-263851H	951-263863A
9U 4hp	951-100102H	951-100103E



KM6-RF Front panels - IEEE1101.10 and .11 compliant

Order Separately

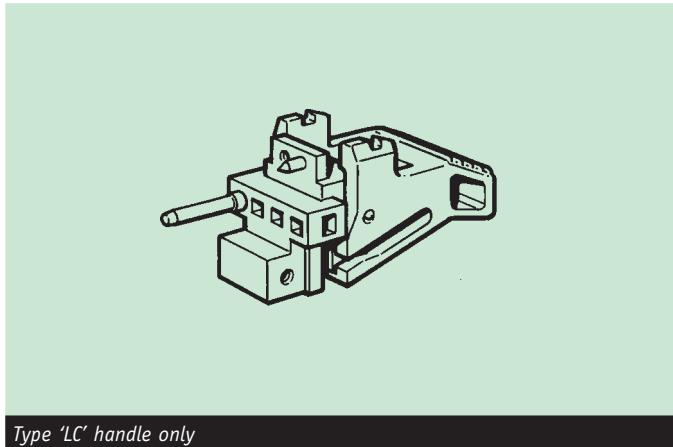


KM6-RF Front Panels - Injector/extractor handles

- Three versions
- IEEE1101.10 and .11
- Version with IEC297-3 ejection compatibility
- Colour options
- Various configurations for coding, pre-location and ESD protection

TYPE 'LC' HANDLE ONLY

- IEEE1101.10 compliant
- Long throw for Metric connectors (5mm)
- Rugged version
- Ident location area
- Ganging option for use on multiple card plug-in units
- Pre-release click stop for Hot swap applications
- Push fit onto panel



This handle has the following possibilities:

With or without a front extrusion location pin, to maintain accurate location against the sideways pressure of EMC fingers.

With or without the ESD/ location pin. The ESD/location pin determines its position in the frame (ie top or bottom)

In black or light grey RAL7035

Coding keys should be ordered separately

Contents of kit

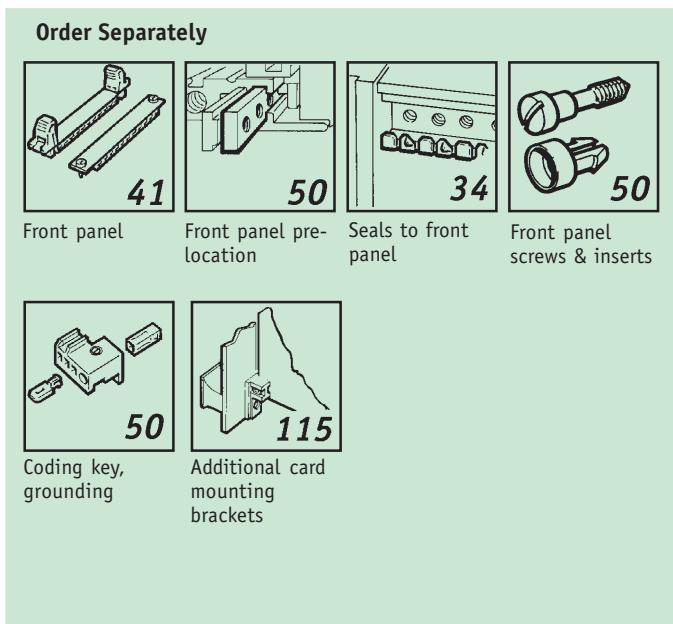
Item/Description	Material/Finish
Injector/ extractor (pre-assembled)	
1 handle moulding	Glass filled polycarbonate UL94-VO, Black or light grey RAL 7035
1 die cast bracket	Zinc Bright nickel plate
1 return spring	0,3mm stainless steel
1 ESD pin (optional)	Stainless steel
1 front fixing screw	
Assembly instructions	

Ordering information

Colour	ESD/location Pin	Extrusion pre-location pin	Order Code
Black, top C.B.A.	Yes	Yes	959-278296C
Black, bottom F.E.D.	Yes	Yes	959-278295E
Black, top or bottom	No	Yes	959-277048E
Black, top C.B.A.	Yes	No	959-278298K
Black, bottom F.E.D.	Yes	No	959-278297A
Black, top and bottom	No	No	959-277053A
Light grey, top C.B.A.	Yes	Yes	959-278300E
Light grey, bottom F.E.D.	Yes	Yes	959-278299H
Light grey, top and bottom	No	Yes	959-277049C
Light grey, top C.B.A.	Yes	No	959-278302A
Light grey, bottom F.E.D.	Yes	No	959-278301C
Light grey, top & bottom	No	No	959-277060D

C.B.A. =

F.E.D.=



KM6-RF Front Panel - Injector/extractor handles

TYPE 'MC' HANDLE ONLY

- IEEE1101.10 compliant
- Non coded version
- Self locking version-needs no screw retention
- Lock/unlock component in contrasting colour
- Ident location area
- Push fit onto front panel

This handle has the following possibilities:

Black or light grey (RAL 7035) body with Jade Green sliding lock component.

Top or bottom. This handle is handed by the ESD pin and coding pocket identification.

Without coding and ESD

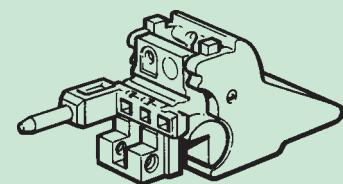
This version has no coding or ESD pin but includes the extrusion pre-location facility to prevent sideways movement of the front panel against the pressure exerted by the fingers. It is not handed.

Contents of kit

Item/Description	Material/Finish
1 Handle moulding, pre-assembled	
1 Lock component, pre-assembled	
1 Die cast bracket, pre-assembled	Zinc, Bright
1 Return spring, pre-assembled	
1 Front fixing screw	
Assembly instructions	

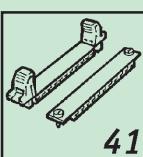
Ordering information

Handle colour	IEEE/Non coded	Order Code
Black/green	Top CBA	951-263988C
Black/green	Bottom FED	951-263987E
Light grey/green	Top CBA	951-263986G
Light grey/green	Bottom FED	951-263985J
Black/green	Top and bottom	951-263990E
Light grey/green	Top and bottom	951-263989A

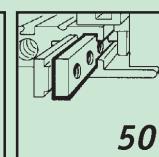


Type 'MC' handle only

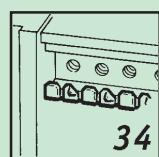
Order Separately



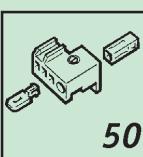
Front panel



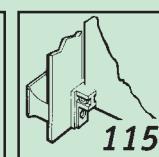
Front panel pre-location



Seals to front panel



Coding key, grounding



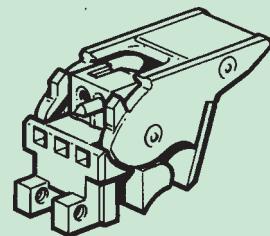
Additional card mounting brackets

KM6-RF Front Panel - Injector/extractor handles

TYPE 'K' HANDLE ONLY

- Injector/ extractor for IEEE1101.10 front extrusion
- Automatically assumes correct position during insertion
- Backwards compatibility as an ejector to IEC60297-3
- Push fit onto front panel
- Ident location area

This handle provides injection and extraction according to IEEE1101.10 but **does not offer the coding or ESD compatibility called for in .10 and .11**; it is designed to eject against the face of the front extrusion, and will therefore operate as an ejector in an IEC 60297-3 situation. The Type K is not handed. The bracket includes a front extrusion location pin, to maintain accurate location against the sideways pressure of EMC fingers.



Type 'K' handle only

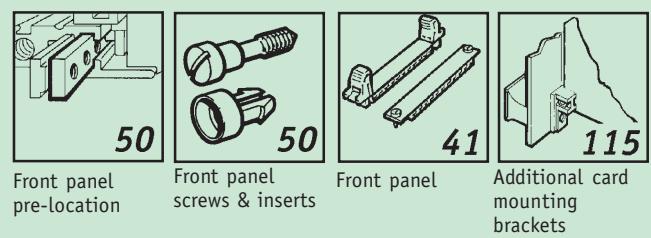
Contents of kit

Item/Description	Material/Finish
1 Moulded handle (pre-assembled)	Black
1 die cast bracket (pre-assembled)	
1 return spring (pre-assembled)	
1 front panel screw	
Assembly instructions	

Ordering information

Description	Order Code
Extrusion pre-location pin	951-263868B

Order Separately



KM6-RF Front Panel - Injector/extractor handles

COMPLETE KIT OPTIONS WITH TYPE 'LC' HANDLE

- Clear chromate finish
- One order code only
- With or without ESD

These kits include the appropriate front panels and injector/extractor handles. The 3U versions require a card mounting bracket, either plastic or metal, for the top of the panel.

Functions, materials and finishes are as described in the previous pages.

Contents of kit

Item/Description	Material/Finish
Handle assembly (1 on 3U, 2 on 6 and 9U)	
Front panel with EMC fingers (fitted)	Chromate
Fixings	

Ordering information

With extrusion pre-location but no ESD pin

Nominal	Order code	Order code
Height/Width	Black	Light Grey
3U/4HP	951-100172J	951-100132K
3U/8HP	951-100173G	951-100135D
6U/4HP	951-100174E	951-100138J
6U/8HP	951-100175C	951-100141J
9U/4HP	-	951-100144C

Ordering information

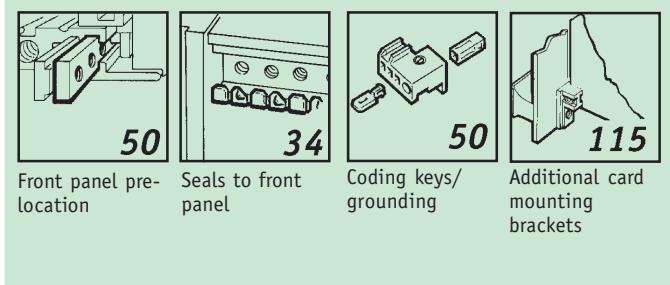
With ESD pin, no extrusion pre-location

Nominal	Order code	Order code
Height/Width	Black	Light Grey
3U/4HP	951-100176A	951-100104D
3U/8HP	951-100177K	951-100107J
6U/4HP	951-100178H	951-100110J
6U/8HP	951-100179F	951-100113C
9U/4HP	-	951-100116H



Complete kit options with Type 'LC' handle

Order Separately



KM6-RF Front Panel - Injector/extractor handles

COMPLETE KIT OPTIONS WITH TYPE 'MC' HANDLE

- Clear chromate finish
- One order code needed only
- Two versions of handles

These kits include the appropriate front panels and injector/extractor handles. 3U versions require a card mounting bracket, plastic or metal, for the top of the panel.

Functions, materials and finishes are as described in the previous pages.

Ordering information

No coding or ESD pin, with extrusion pre-location

Nominal	Order code	Order code
Height/Width	Black/green	Light Grey/green
3U/4HP	951-100164H	951-100076E
3U/8HP	951-100165F	951-100079K
6U/4HP	951-100166D	951-100082K
6U/8HP	951-100167B	951-100085D

Ordering information

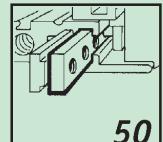
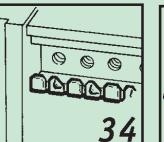
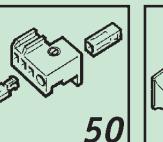
With ESD pin and coding, no extrusion pre-location

Nominal	Order code	Order code
Height/Width	Black/green	Light Grey/green
3U/4HP	951-100168L	951-100050A
3U/8HP	951-100169J	951-100053F
6U/4HP	951-100170B	951-100056L
6U/8HP	951-100171L	951-100059E
9U/4HP	951-100088J	951-100062E



KM6-RF front panel injector/extractor handles

Order Separately

			
50	34	50	115

Front panel pre-location Seals to front panel Coding keys/grounding Additional card mounting brackets

KM6-RF Front Panel - Injector/ extractor handles

COMPLETE KIT OPTIONS WITH TYPE 'K' HANDLE

- Clear chromate finish
- One order code needed only

These kits include the appropriate front panels and injector/extractor handles. 3U versions require a card mounting bracket, plastic or metal, for the top of the panel.

Functions, materials and finishes are as described in the previous pages.

Contents of kit

Item/Description	Material/Finish
Handle assembly (1 on 3U, 2 on 6U)	
Front panel with EMC fingers (fitted)	Chromate
Fixings	

This version has no coding but offers pre-location via a pin in the die cast bracket which locates into a pierced strip in the front extrusion. The handle is black.

Ordering information

No ESD or coding, with extrusion pre-location

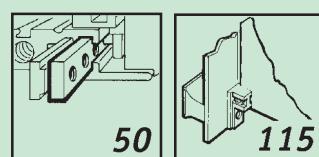
Nominal

Height/ width	Order code
3U/ 4HP	951-263879H
3U/ 8HP	951-263882H
6U/ 4HP	951-263885B
6U/ 8HP	951-263888G



Complete kit options with Type 'K' handle

Order Separately



Front panel pre-location

Additional card mounting brackets

KM6-RF Injector/ extractor accessories

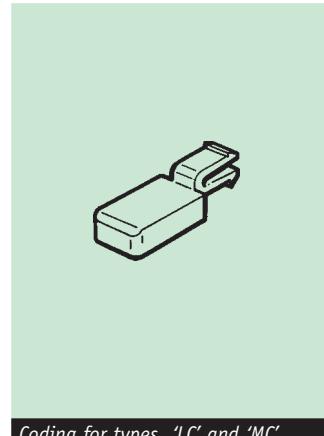
CODING FOR TYPES 'LC' AND 'MC'

The use of coding keys in the handle bracket and the mating frame mounted part, according to IEEE 1101.10, permits up to 4096 possible unique combinations.

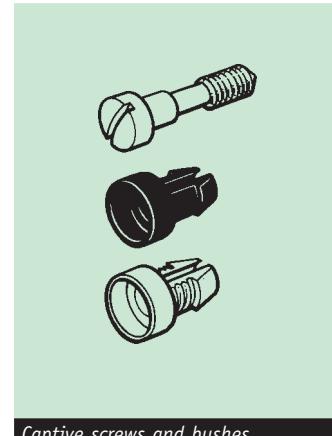
FRONT PANEL CAPTIVE SCREWS AND BUSHES

- Positive retention
- Plastic or metal bushes

For panel only situation where the width of the panel or type of panel requires additional fixing (Injector/extractors are supplied with screws) and complete panel kits.



Coding for types 'LC' and 'MC'



Captive screws and bushes

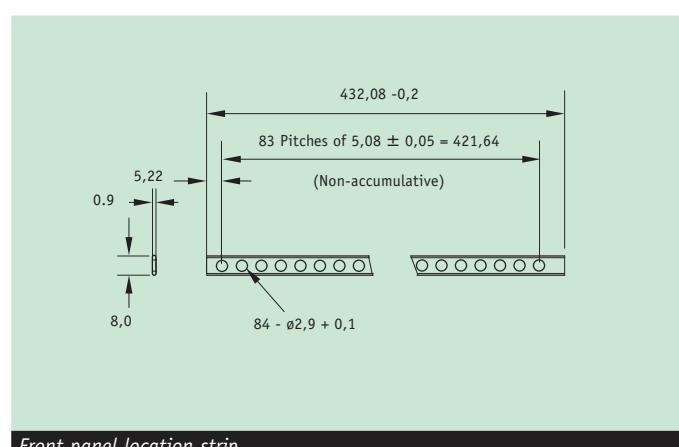
EXTRUSION PRE-LOCATION STRIP

- Positive sideways location

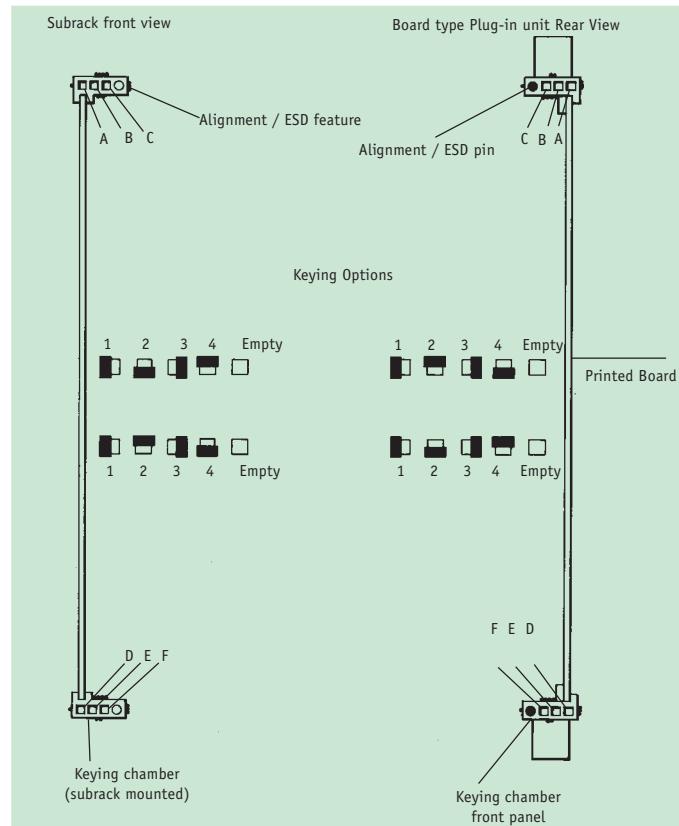
This strip fits in front of the tapped strip in KM6-RF front extrusion. It permits the use of a tapered pin on the plug-in unit and provides a means of preventing sideways displacement caused by the pressure of EMC fingers.

Contents of kit

Item/Description	Material/Finish
Coding keys	
100 keys	Plastic
Front panel screws	
100 screws M2,5 x 11	
100 bushes	Plastic black
100 bushes	Metal
10 extrusion pre-location strip	0,5mm stainless steel



Front panel location strip



KM6-RF Blanking front panels - IEEE1101.10 and .11

- Latest industry standard front panel geometry
- Stainless steel fingers
- Clear chromate finish or with polyester overlays
- Full custom service available
- With or without pre-location pin

These panels can be used to fill unused slots or where no handle is necessary. The versions with pre-location pin interface with a pierced strip in the front extrusion to prevent sideways movement due to spring pressure.

Screws and retaining inserts (metal or plastic) should be ordered separately - supplied in packs of 100

Contents of kit

Item/Description	Material/Finish
1 front panel	Al extrusion Clear chromate
EMC finger strip (fitted)	Stainless steel
Overlay (if fitted)	0,2mm polyester, Light grey RAL7035

Ordering information

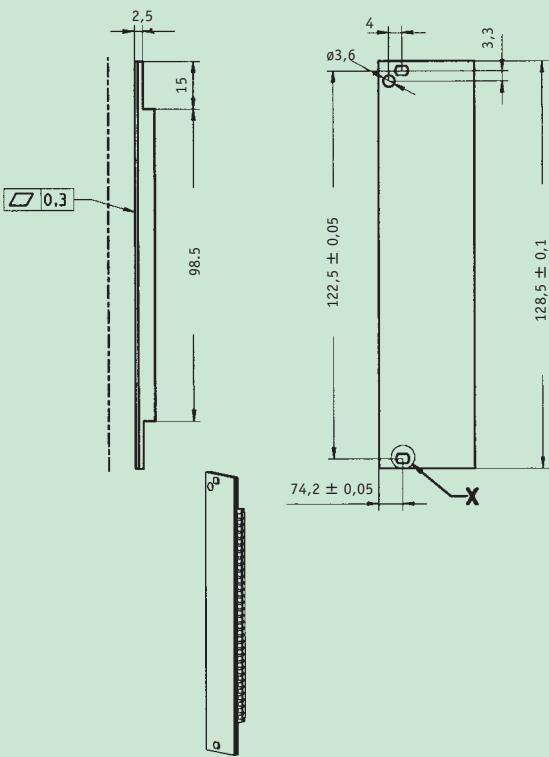
Without pre-location pin

Nominal Height	Width	Chromate finish Order Code	With overlay Order Code
3U	4HP	951-263991C	951-100000E
3U	5HP	951-263993K	951-100002A
3U	6HP	951-263995F	951-100004H
3U	8HP	951-263997B	951-100006D
3U	10HP	951-263999J	951-100008L
3U	12HP	951-264001F	951-100010B
6U	4HP	951-264003B	951-100012J
6U	5HP	951-264005J	951-100014E
6U	6HP	951-264007E	951-100016A
6U	8HP	951-264009A	951-100018H
6U	10HP	951-264011C	951-100020K
6U	12HP	951-264013K	951-100022F
9U	4HP	951-263974C	951-100162A

With pre-location pin

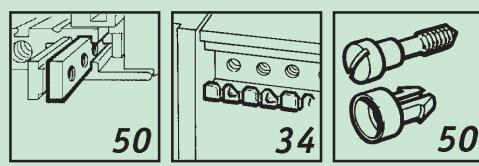
3U	4HP	951-100024B	951-100038B
3U	5HP	951-100026J	951-100040D
3U	6HP	951-100028E	951-100042L
3U	8HP	951-100181H	951-100187G
3U	10HP	951-100183D	951-100189C
3U	12HP	951-100185L	951-100191E
6U	4HP	951-100030G	951-100044G
6U	5HP	951-100032C	951-100046C
6U	6HP	951-100034K	951-100048K
6U	8HP	951-100193A	951-100199L
6U	10HP	951-100195H	951-100201F
6U	12HP	951-100197B	951-100203B
9U	4HP	951-100036F	951-100205J
M2,5x 11 captive screws		pk 100	953-236510K
Metal retaining inserts		pk 100	953-236506A
Plastic retaining inserts		pk 100	953-236507K

3U Blanking front



KM6-RF Blanking front panels - IEEE1101.10 and .11

Order Separately



Front panel pre-location

Seals to front panel

Front panel screws & inserts

KM6-RF EMC front panels - with ejector handles

For use in situations where a high level of screening is required these extruded front panels are supplied complete with stainless steel fingers to make contact with adjacent panels and with the KM6-RF mounting angles.

- Good mechanical strength and high level of electromagnetic screening.
- Ejector handle provides assistance in removal of plug-in units with high retention force connectors
- Latest geometry to IEEE1101.10 minimises intrusion into the solder area of Eurocards
- Compatible with all KM6-RF and IEC 297-3 subrack front extrusions
- Available with chromate finish front face or with polyester overlay in RAL 7035 light grey

This range of extruded front panels meets the geometry associated with the latest mechanical standard, IEEE1101.10, having an overall depth of 6,3mm. This minimises the interference of the left side with the solder side of Eurocards. The stainless steel finger strip which is fitted to the right side interacts with neighbouring panels that have a similar geometry. At the subrack interface, it is necessary to have matching features in order to maintain the EMC performance across the front.

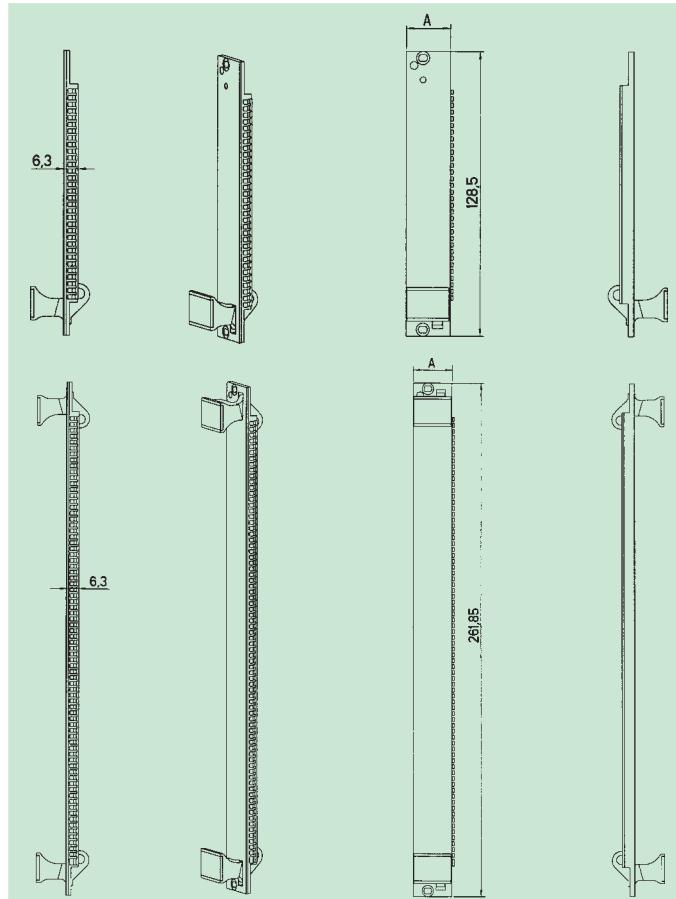
The kit is supplied complete with die cast card mounting brackets and metal front panel screw retaining bushes for maximum conductivity to the subrack.

Contents of kit

Item/Description	Material /Finish
1 extruded front panel	Aluminium, all chromate finish or with front overlay
1 set contact fingers	Stainless steel
1 overlay (optional)	0,2mm polyester, RAL 7035 light grey
Handles	
(1 on 3U, 2 on 6U)	Makrolon 9425 back
Handle ident labels	
(1 per handle)	1,5mm aluminium, anodised or 1,25mm with overlay
2 Card mounting brackets	Zinc die cast
2 Retaining screws M2,5	Steel, chromed
2 Bushes	Metal, chromed
All fixings	

Ordering information

Width in HP	Width A in mm	Vertical grain Height	RF front panel	RF front panel
			chromate finish	with overlay
4	19,92	3U	951-263100J	951-263750C
6	30,08	3U	951-263106H	951-263751A
4	19,92	6U	951-263101G	951-263771F
6	30,08	6U	951-263107F	951-263772D



KM6-RF EMC front panels - with ejector handles

KM6-RF front panels - fixed handles

- Latest industry standard front panel geometry
- Stainless steel fingers
- Clear chromate finish or with polyester overlays
- Full custom service available

Providing backwards compatibility with existing front panels or where the use of injector/ extractor handles is not necessary or desirable.

The channel section provides good mechanical strength. The inserts in these kits are metal for maximum conductivity. Up to 8hp wide, panels have two fixing screws, 10 and 12hp have four. We offer a comprehensive customising service in front panels and overlays.

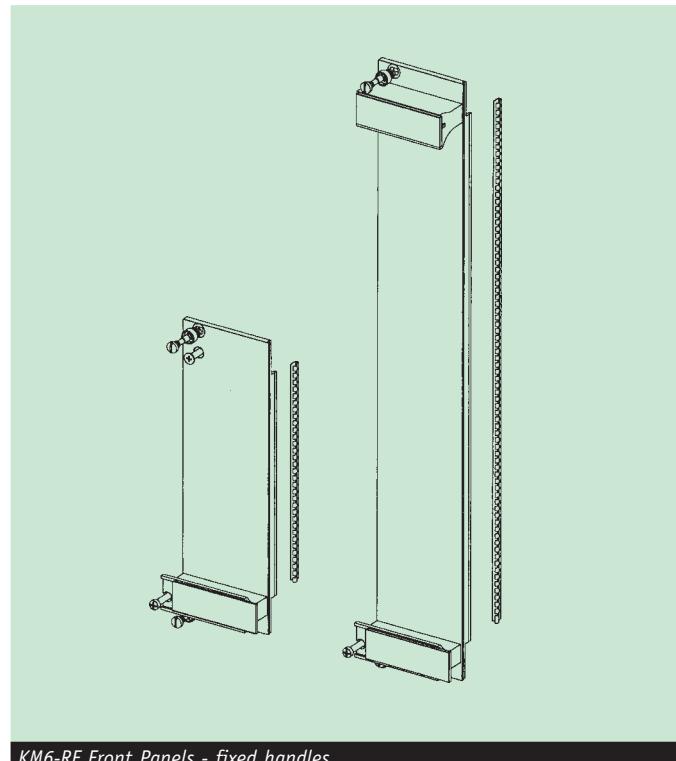
Contents of kit

Item/Description	Material/Finish
1 front panel	Al extrusion, Clear chromate
1 overlay (where fitted)	0,2mm polyester, Light grey RAL7035
1 EMC finger strip	Stainless steel
1(3U) or 2 (6U) handles	Luranyl 2452/1 or equivalent Black
1 (3U) or 2 (6U) handle ident	Al alloy 1,5mm , Clear anodised or 1,25mm (with overlay)

Fixings and assembly instructions

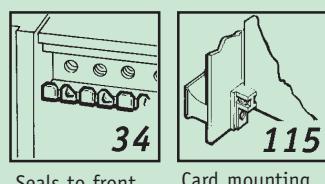
Ordering information

Nominal dimensions	Height	Width	Order Code	Order Code
			Chromate finish	With overlay
3U	4hp	951-263098C	951-263199H	
3U	5hp	951-263102E	951-263200E	
3U	6hp	951-263104A	951-263201C	
3U	8hp	951-263108D	951-263202A	
3U	10hp	951-263794E	951-263796A	
3U	12hp	951-263110F	951-263203K	
6U	4hp	951-263099A	951-263219F	
6U	5hp	951-263103C	951-263220K	
6U	6hp	951-263105K	951-263221H	
6U	8hp	951-263109B	951-263222F	
6U	10hp	951-263795C	951-263797K	
6U	12hp	951-263111D	951-263223D	



KM6-RF Front Panels - fixed handles

Order Separately



Seals to front panels

Card mounting bracket

KM6-RF plug-in units

FOR USE WITH 100MM GUIDES

- 160mm Eurocard compatible
- Simple assembly
- Good electromagnetic shielding within systems
- IEEE1101.10 front panel geometry
- Excellent mechanical strength for mounting and protection of components
- Clear chromate finish front panel or with light grey overlay
- Comprehensive customising service available

Good design of the components of these plug-in units ensures excellent EMC performance between neighbouring units. The IEEE1101.10 front panel permits integration into screened subracks.

Eurocard PCBs occupy slot 3 from the left hand nominal pitchline and are retained in position by means of PCB/connector brackets. The extrusion has tapped strip carrying features, facilitating the mounting of non Eurocard components.

Brackets and tapped strips should be ordered separately (see table)

Contents of kit

Item/Description	Material/Finish
Plug-in units	
1 front panel	Al extrusion, Clear chromate
1 overlay (if fitted)	0,2mm polyester, Light grey RAL7035
1 handle	Luranyl 2452/1 or equivalent Black
1 handle ident	1,5mm al alloy, Clear anodised or 1,25mm al alloy, With overlay

Fixings and assembly instructions

Two rail versions:

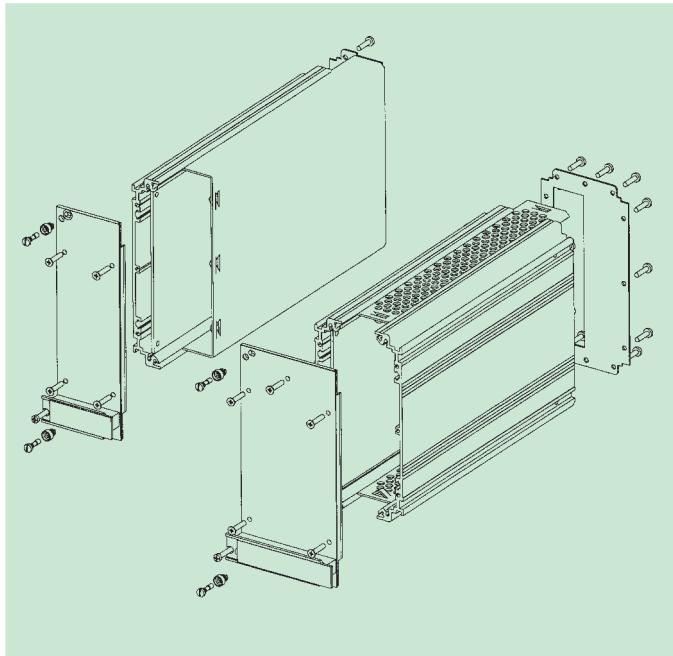
1 side extrusion	Al extrusion, Natural
1 wrap-round right cover	1mm steel, Pre-galvanised

Four-rail version:

2 side extrusions	Al alloy, Natural
2 ventilated top/bottom covers	1mm steel, Pre-galvanised

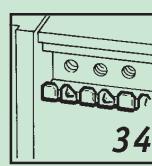
Ordering information

Nominal dimensions	Available PCB component height	Order code	Order code
Height	Width	Chromate finish	With overlay
2 rail 3U	6hp	12,6mm	951-263131J
2 rail 3U	8hp	22,8mm	951-263133E
4 rail 3U	12hp	60,56mm	951-263135A
PCB/connector brackets (pk 5prs plus fixings)		-	951-263755D
Tapped strip (pk 10)		-	951-263756B

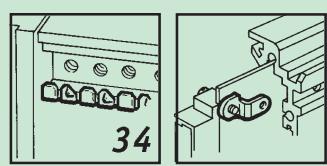


KM6-RF plug-in units

Order Separately



Seals to front



Pcb/connector mounting brackets

KM6-RF front panel customising service

- Special punching
- Anodising
- Chromating
- Painting
- Screen printing, surface and sub-surface
- Cut-outs
- Milled recesses
- Overlays, with or without windows
- High quality appearance

We have many years' experience in the production of high quality customised front panels in many forms and finishes. If you would like a quotation, please contact our Sales Office or local agent.



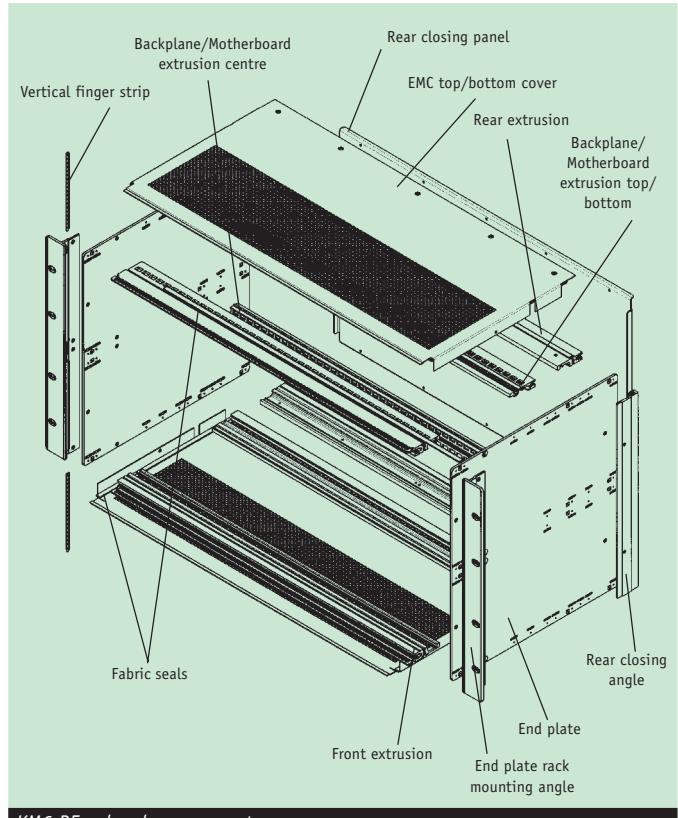
KM6-RF subrack components

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 431,12mm. It can be calculated that a 60hp version is $431,12 - (24 \times 5,08\text{mm}) = 431,12 - 121,92 = 309,2\text{mm}$. 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 subrack components

KM6-RF subrack components

END PLATES

- 3U, 4U, 6U, 7U, 9U
- 240, 300, 360, 420
- 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 1/2 U top and bottom, allowing space for cooling, recessing, cabling etc.

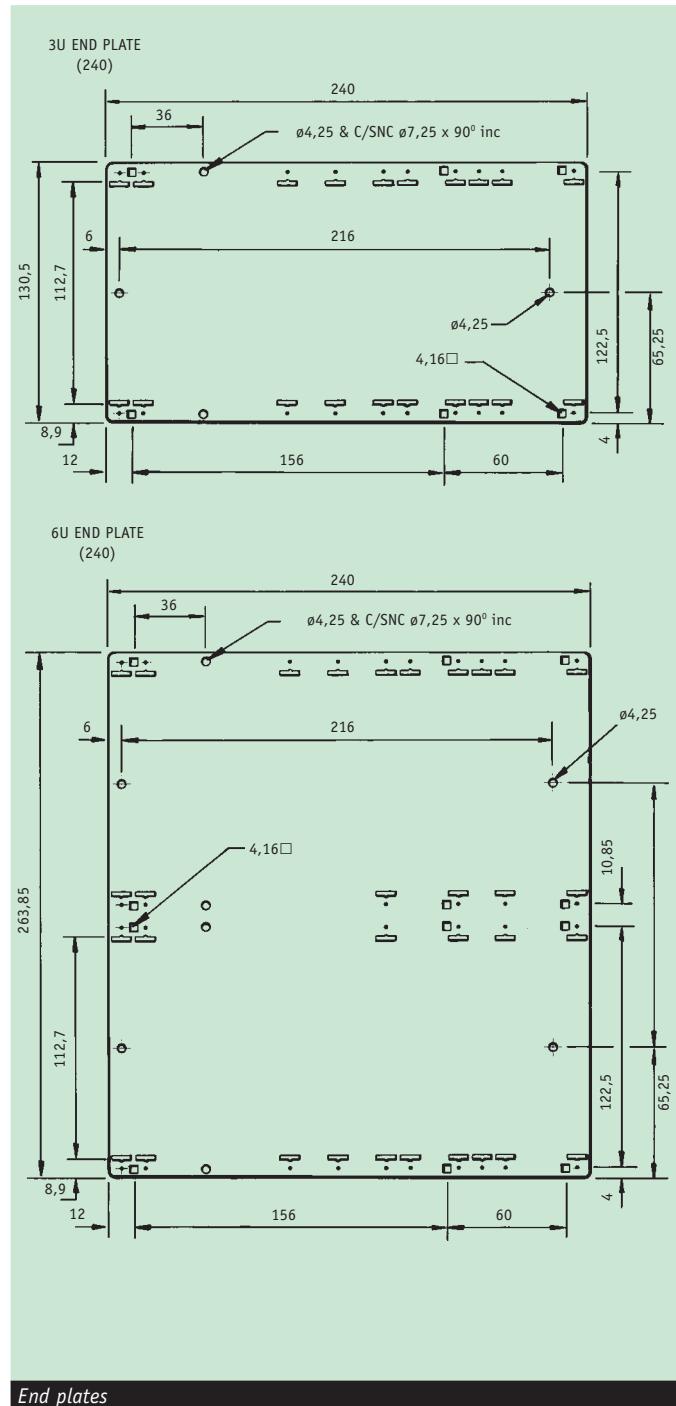
Contents of kit

Item/Description	Material/Finish
1 End plate	2.5mm Al alloy 5251-H12, Clear chromate

Ordering information

Nominal dimensions

Basic type (front plug-up only)	Kit contents	Order code
3U x 240	1	959-262256G
3U x 300	1	959-262258C
3U x 360	1	959-262260E
4U x 420	1	959-278685C
6U x 240	1	959-262257E
6U x 300	1	959-262259A
6U x 360	1	959-262261C
6U x 420	1	959-278687K
7U x 420	1	959-278688H
Rear plug-up type (preferred sizes in bold type)		
3U x 160/160	20	959-275812D
3U x 160/140	20	959-275813B
3U x 160/120	20	959-275814L
3U x 160/100	20	959-275815J
3U x 160/80	20	959-275816G
3U x 160/60	20	959-275817E
6U x 160/160	20	959-275818C
6U x 160/140	20	959-275819A
6U x 160/120	20	959-275820E
6U x 160/100	20	959-275821C
6U x 160/80	20	959-275822A
6U x 160/60	20	959-275823K
9U x 160/160	20	959-275824H
9U x 160/140	20	959-275825F
9U x 160/120	20	959-275826D
9U x 160/100	20	959-275827B
9U x 160/80	20	959-275828L
9U x 160/60	20	959-275829J



End plates

KM6-RF subrack components

END PLATE (RACK MOUNTING) ANGLES AND OVERLAYS

- 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

Item/Description	Material/Finish
Al extrusion 5063T6	Clear chromate

Ordering information

End plate (19 inch rack mounting) angles

Nominal size	Kit contents	Order code
3U	1	959-262266D
6U	1	959-262267B
9U	1	959-278689F
End plate (ETSI rack mounting) angles		
3U	1	959-262237L
6U	1	959-262238J

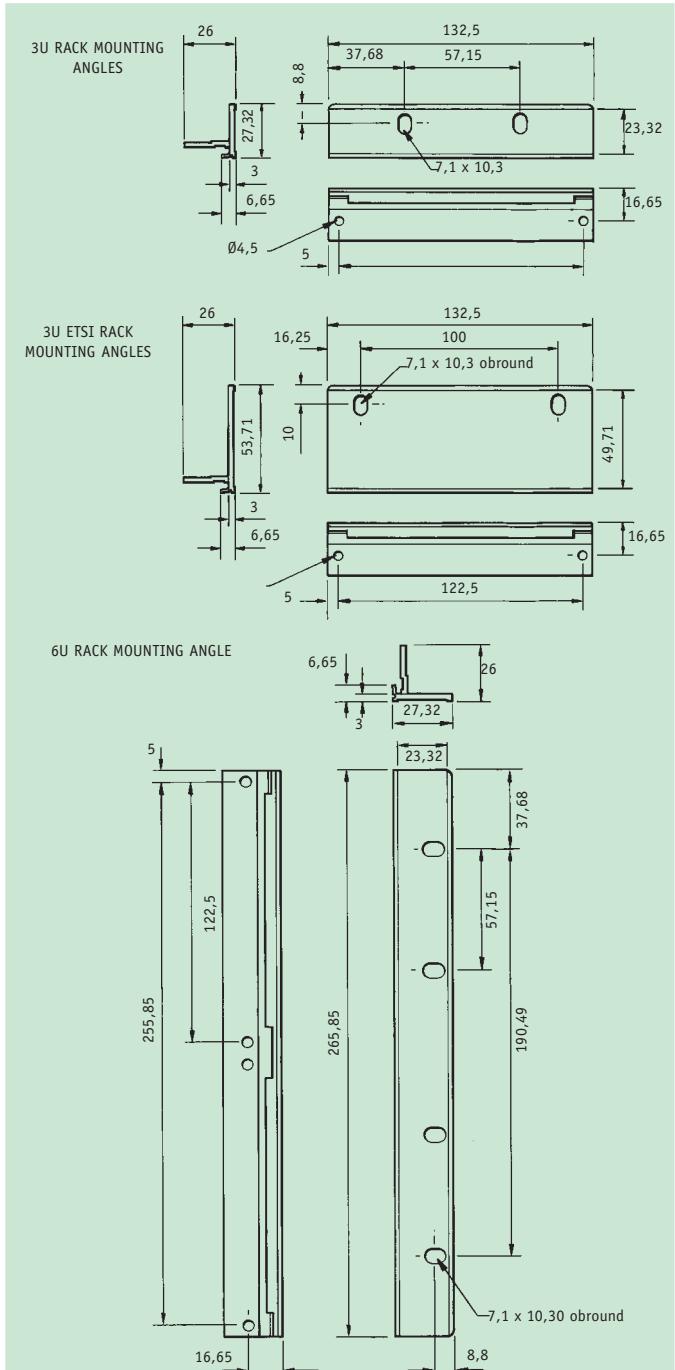
Overlays are self adhesive and can be applied to the front of end plate angles. Supplied in packs of 10

Contents of kit

Item/Description	Material/Finish
0,2mm polyester	light grey RAL7035

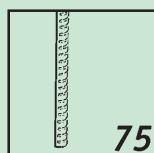
Ordering information

Height	19 inch angles	ETSI angles
3U	959-262266D	959-262237L
6U	959-262267B	959-262238J



End plate (rack mounting) angles and overlays

Order Separately



EMC vertical fingers

KM6-RF subrack components

REAR CLOSING ANGLES

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

These angles serve two functions, mimicking the geometry of rack mounting angles to interface with IEEE1101.10 plug-in units and also provide support to the end plates against the pressure of EMC fingers. (EMC fingers should be ordered separately).

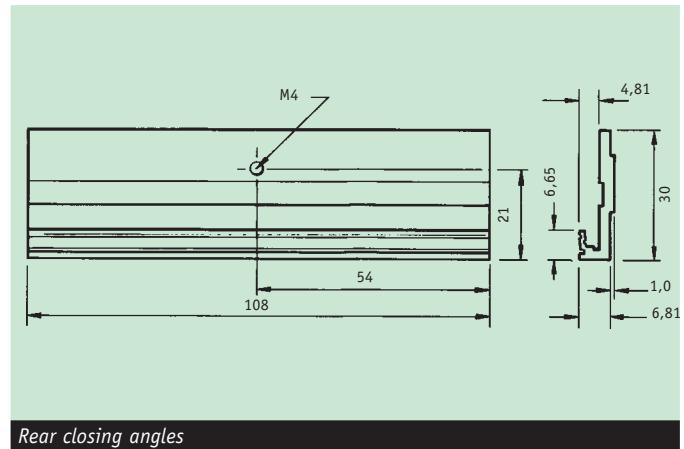
Normally used in Style B KM6-RF and 1101.11 rear plug-up situations

Contents of kit

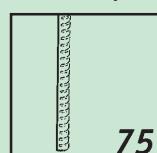
Item/Description	Material/Finish
1 Extrusion	Al extrusion 6063T6, Clear chromate
Fixings	

Ordering information

Rear closing angles	Kit contents	Order code
3U	1 + fixing	959-266527D
6U	1 + fixings	959-266258B
9U	1 + fixings	959-278690K



Order Separately



EMC vertical fingers

KM6-RF subrack components - extrusions

FRONT EXTRUSIONS

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

IEEE 1101.10 version

Provides facilities for the operation of compliant injector/extractors, having a suitably extended front lip.

IEC 60297-3 (non inject/ extract) version

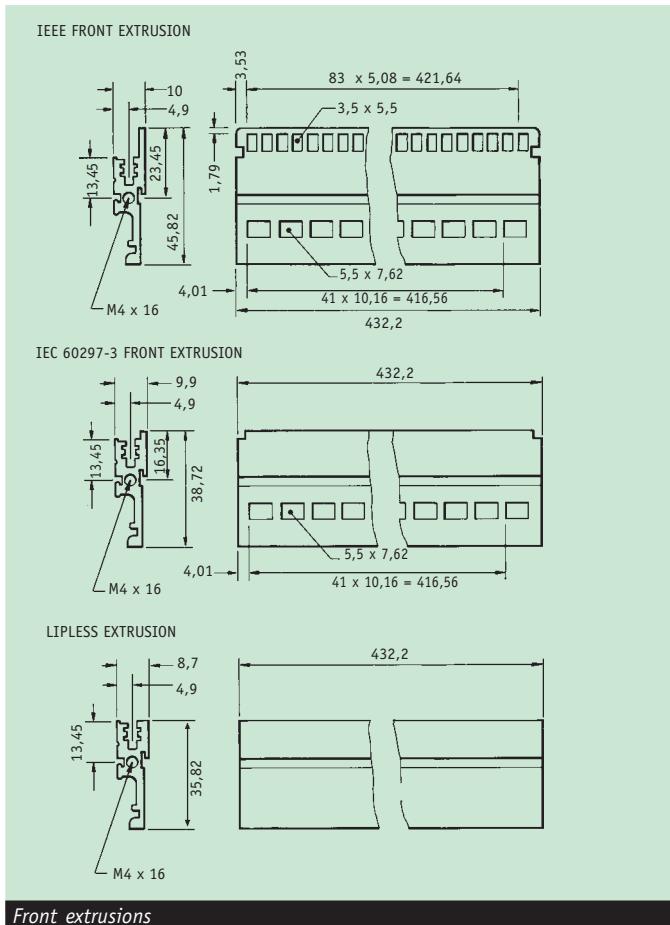
Similar to the above, but without the extended lip. Normally used for panels which do not carry an injector/ extractor to 1101.10

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 1101.10 compliant.

Contents of kit

Item/Description	Material/Finish
1 Front extrusion	Al extrusion 6063T6, Clear chromate
Ordering information	
Description	Order code
IEEE1101.10 version	84hp 60hp 42hp 24hp 959-262227C 959-278691H 959-278692F 959-278693D
IEC 60297 (conventional)	959-262230C 959-278694B 959-278695L 959-278696J
Lipless version	959-262231A
Assembly screws M4 x 16 skt cap (pk 100)	959-262224J



Front extrusions

REAR EXTRUSION

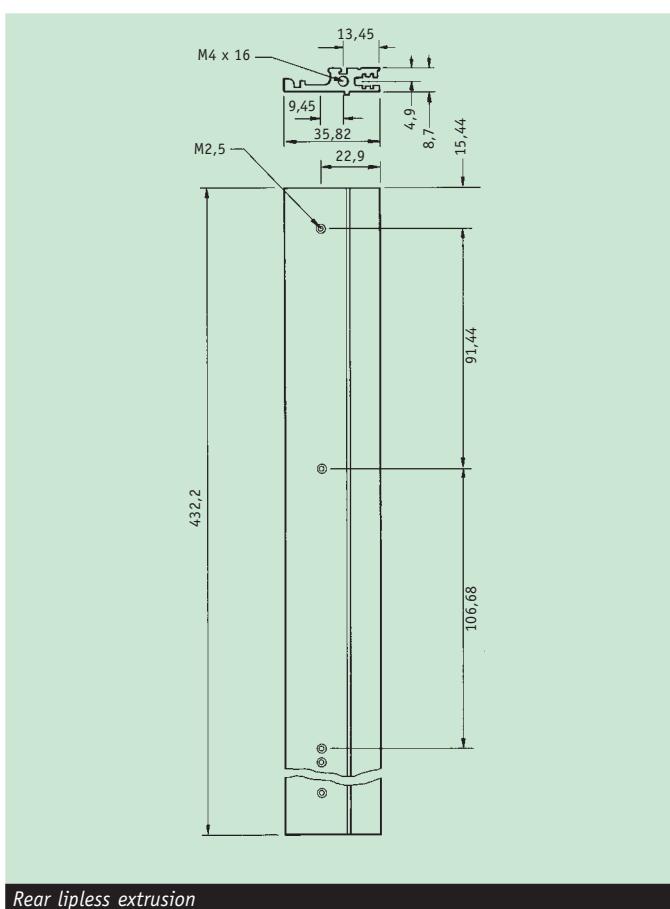
The lipless version is used in a different form to secure overall covers at the rear of Style B subracks.

Contents of kit

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

Ordering information

Description	Order code
Rear lipless extrusion 84 HP	959-266529L



Rear lipless extrusion

KM6-RF subrack components - extrusions

BACKPLANE/ MOTHERBOARD EXTRUSIONS, TOP AND BOTTOM

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

Type 1

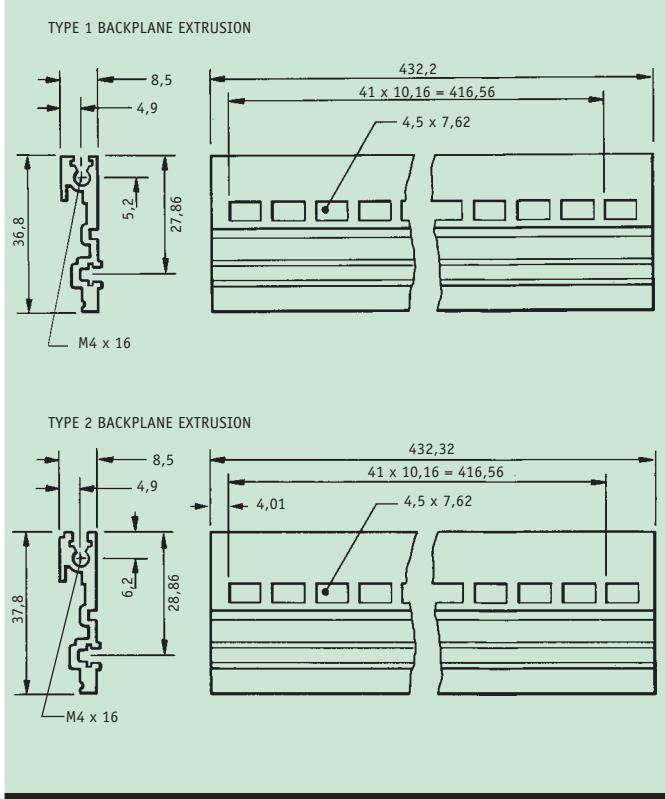
The Type 1 extrusion requires a spacer in order to maintain the correct geometry of the reference face of a backplane. This would normally be an insulator, but a conductive version is available if required.

Type 2

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

Contents of kit

Item/Description	Material/Finish			
Backplane extrusion	Al extrusion 6063T6, Clear chromate			
<hr/>				
Description	84hp	60hp	42hp	24hp
Type 1 extrusion	959-262232K	959-278697G	959-278698E	959-278699C
Type 2 extrusion	959-262233H	959-278700L	959-278701J	959-278702G
Assembly screws M4 x 16 skt cap (pk 100)	959-262224J			



Backplane/ motherboard extrusions, top and bottom

BACKPLANE/ MOTHERBOARD EXTRUSIONS, CENTRE

- 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

Type 1

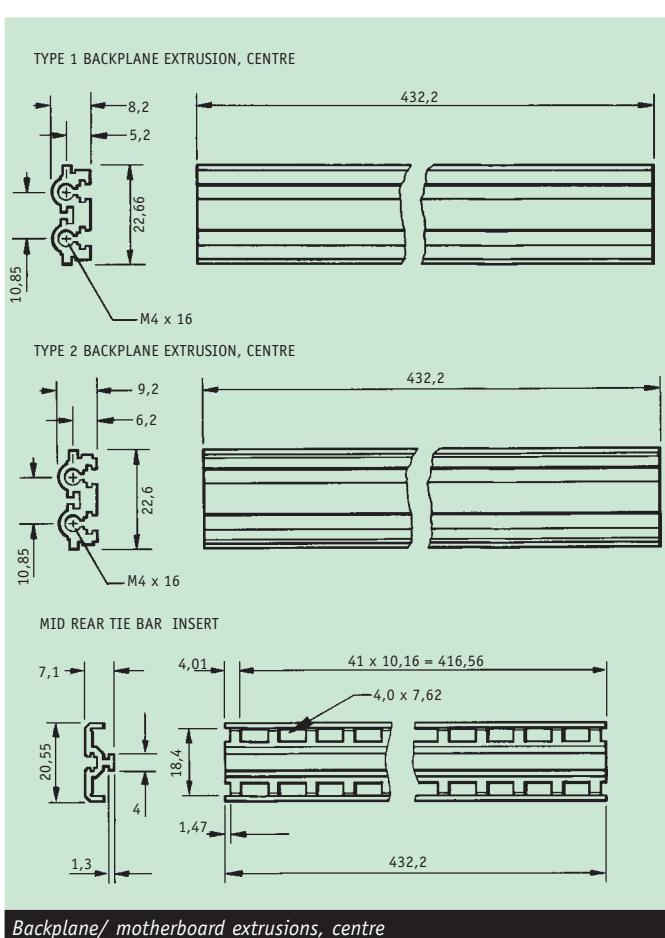
The Type 1 extrusion requires a spacer in order to maintain the correct geometry of the reference face of a backplane. This would normally be an insulator, but a conductive version is available if required.

Type 2

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

Contents of kit

Item/Description	Material/Finish	
Backplane extrusion plus insert	Al extrusion 6063T6, Clear chromate	
<hr/>		
Description	Order code	
Type 1 backplane extrusion, centre 84HP	959-262234F	
Type 2 backplane extrusion, centre 84HP	959-262235D	
Assembly screws M4 x 16 skt cap (pk 100)	959-262224J	



Backplane/ motherboard extrusions, centre

KM6-RF subrack components - extrusion related accessories

BACKPLANE SPACERS

■ Insulating and conductive versions

Backplane insulation spacers, single level

Supplied singly in 84hp lengths, the insulation spacer has small half shears at the end to aid assembly. It can be simply cut down to produce short versions.

Backplane insulation spacers, two level

Supplied singly in 84hp lengths, the insulation spacer has small half shears at the end to aid assembly. It can be simply cut down to produce short versions.

Backplane conductive spacer

The single level conductive spacer is supplied singly in 42hp lengths

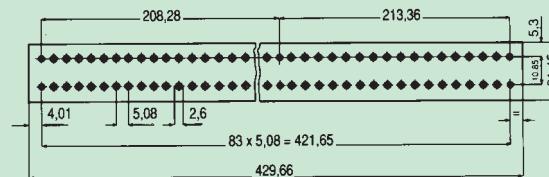
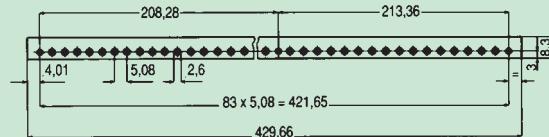
Contents of kit

Item/Description	Material/Finish
Insulation spacers	Grey PVC UL94-VO
Conductive spacer	0,9mm steel , Zinc plate and passivate

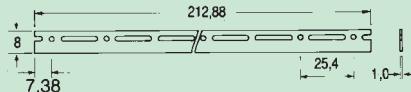
Ordering information

	84hp	42hp
Insulation spacer 84hp single level	950-10014H	-
Insulation spacer 84hp two level	950-10015E	-
Conductive spacer 42hp single level	-	173-60788B

Insulating spacers



Conductive spacer



Backplane spacer strips

DIN 41612 CONVERSION

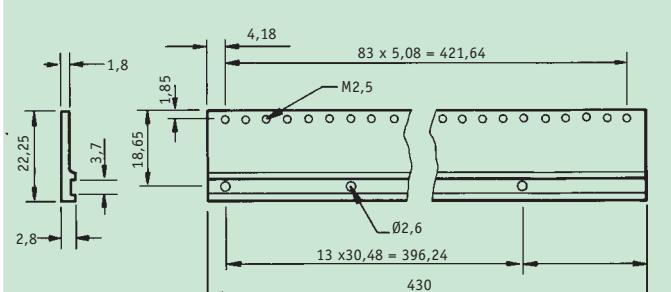
■ Direct mounting of connectors

■ Reversible for Types 1 & 2 backplane extrusions

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	Material/Finish
1 extrusion	Al extrusion 6063T6 Clear chromate
Fixings	



DIN 41612 conversion

Ordering information

Description	Order code
DIN 41 612 conversion	959-262239G
Connector fixing screws M2,5x6mm (Pk 100)	173-12530B

KM6-RF subrack components - extrusion related accessories

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

Item/Description	Material/Finish
1 tapped strip	Mild steel, Zinc plate and colour passivate

Ordering information

Description	Order code			
Thread size	84hp	60hp	42hp	24hp
M2,5	950-202001E	950-202740L	950-202739G	950-202799L
M3	950-276330A	-	-	-

FRONT PANEL LOCATION STRIP

n Prevents sideways movement of panels on insertion

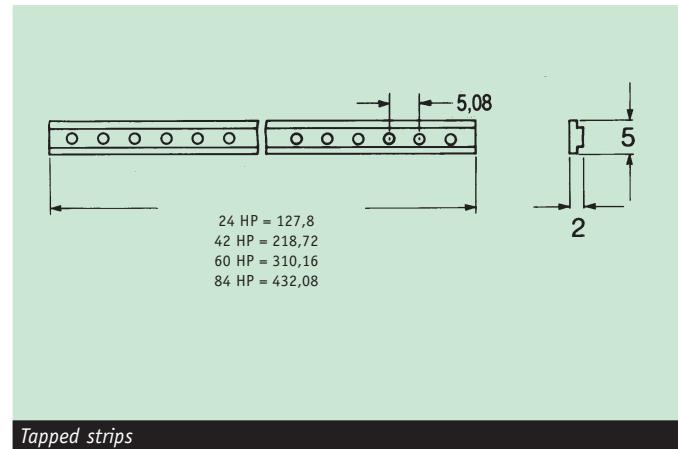
This 84hp pierced strip fits into the forward slot in KM6-RF front extrusions. When used in conjunction with a suitable panel, it prevents sideways movement caused by the pressure of EMC fingers. The hole size permits a normal M2,5 front panel screw to pass through into the tapped strip.

Contents of kit

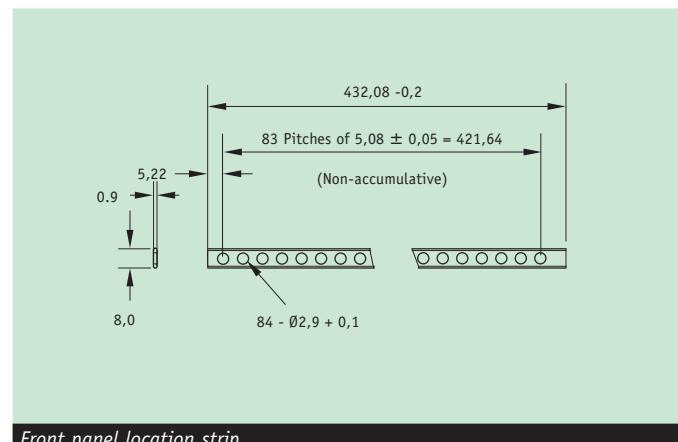
Item/Description	Material/Finish
10 strips	0,9mm stainless steel

Ordering information

Description	Order code	
Location strips	959-278684E	



Tapped strips



Front panel location strip

KM6-RF subrack - EMC components

EMC SEALS

- IEEE1101.10 version
- Horizontal type for sealing panels to front extrusions
- Flexible Fabric type for cover interfaces

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

Item/Description	Material/Finish
Supplied in packs of 10	stainless steel

Ordering information

Description	Order code
Vertical seal for 3U	959-266523A
Vertical seal for 6U	959-266524K

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 431mm. When constructing an EMC subrack from piece parts these seals should be ordered for extrusion to cover interfaces.

Contents of kit

Item/Description	Material/Finish
Supplied in packs of 10	CuNi fabric over closed cell foam

Ordering information

Description	Order code
Fabric seal	959-266525H

HORIZONTAL SEAL

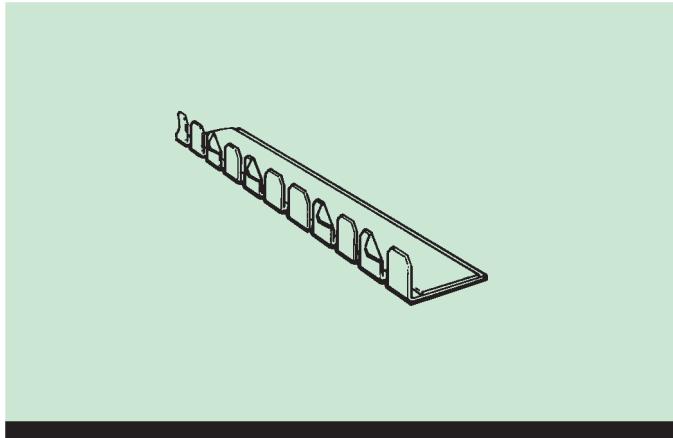
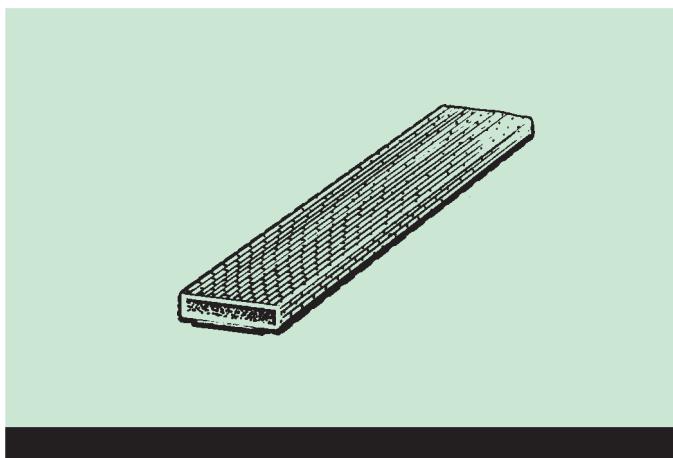
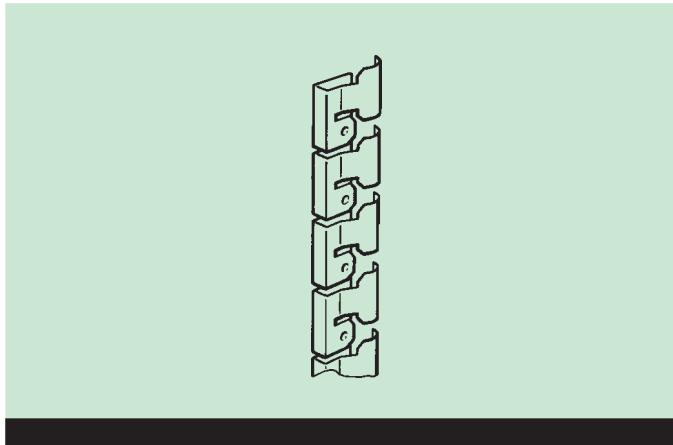
Supplied in 84hp lengths, this self-adhesive seal fits to the inside face of front extrusions to maintain electrical contact between front panels and the extrusion front face. It is of particular relevance on wider panels where it serves to close off long slots which might be disadvantageous to EMC performance.

Contents of kit

Item/Description	Material/Finish
Supplied in packs of 10	stainless steel

Ordering information

Description	Order code
Horizontal seal	959-262225G



KM6-RF subrack - EMC components

STYLE A TOP/ BOTTOM COVERS

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

NORMAL VENTILATED COVER

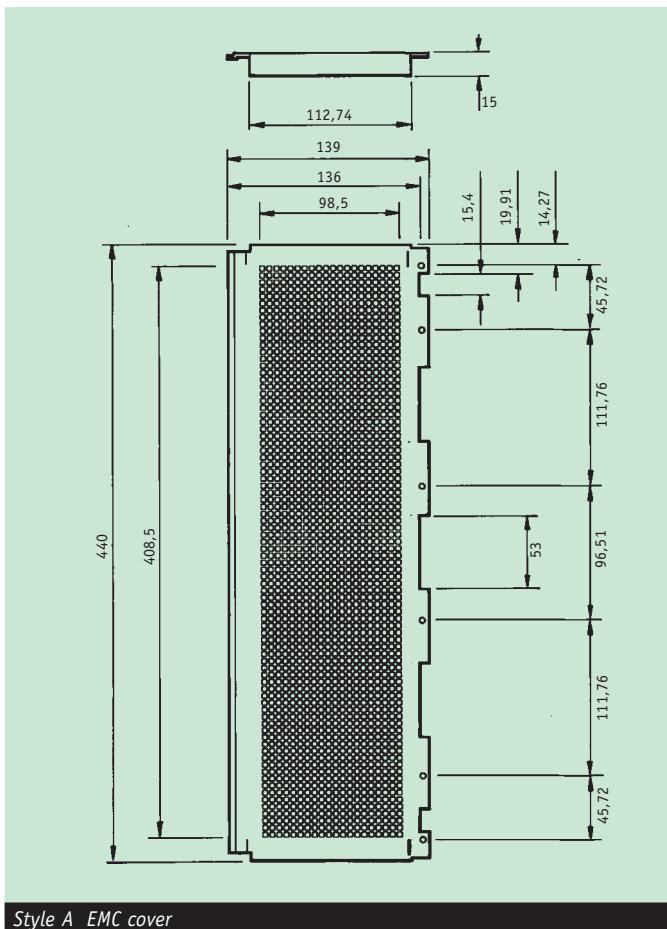
Used in Style A KM6-RF subrack situations where only the pcb is required to be shielded - eg where the backplane forms a rear EMC shield or a separate rear cover shell is to be fitted. These covers are fitted with seals to the end plate.

Contents of kit

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

Ordering information

Description	Order code
Ventilated cover for 160mm pcb	959-262275C
Ventilated cover for 220mm pcb	959-262277K



Style A EMC cover

FIRE ENCLOSURE COVER

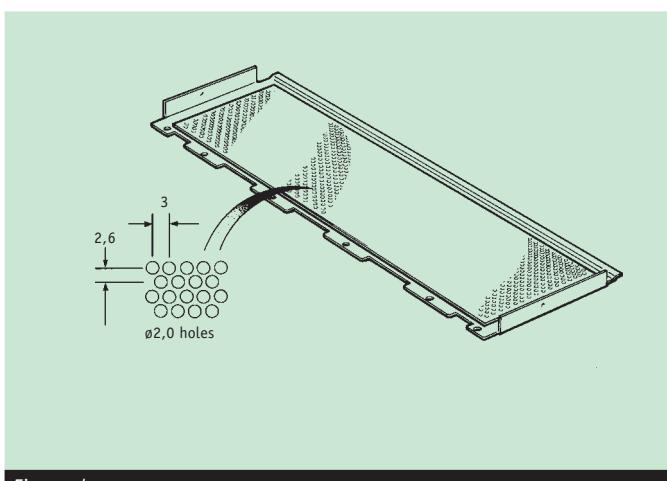
This version meets the requirements of EN60950 regarding hole size and spacing. Normally required at the bottom only, it will replace the normal ventilated type.

Contents of kit

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

Ordering information

Description	Order code
Fire enclosure cover for 160mm pcb	959-262215K
Fire enclosure cover for 220mm pcb	959-262216H



Fire enclosure cover

KM6-RF subrack - EMC components

STYLE B TOP/ BOTTOM COVERS

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

NORMAL VENTILATED COVER

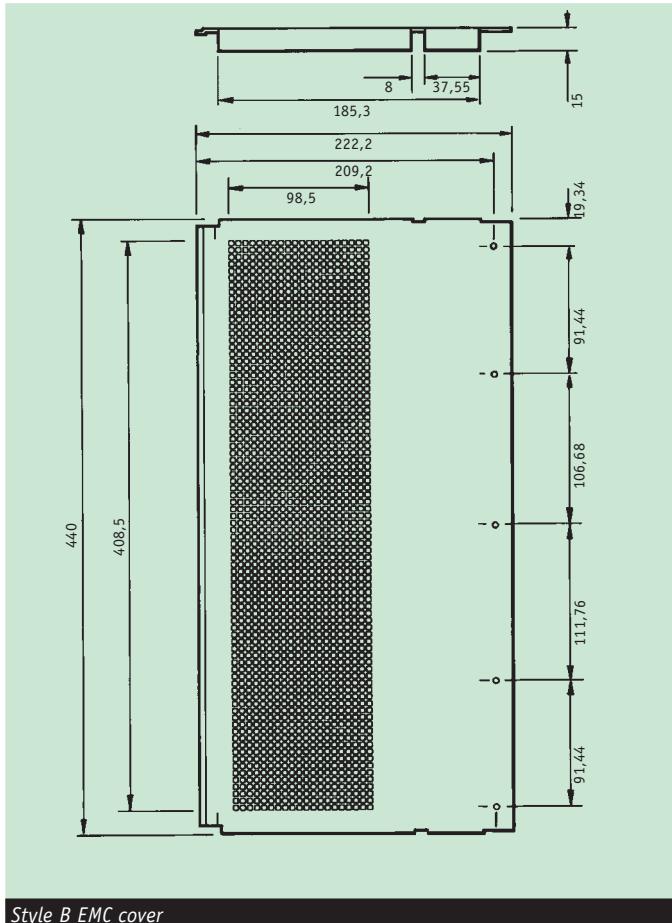
Used in Style B KM6-RF subrack situations where the entire area is shielded. These covers are fitted with seals to the end plate.

Contents of kit

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

Ordering information

Description	Order code
Ventilated cover for 240mm subracks	959-262274E
Ventilated cover for 300mm subracks	959-262276A
Ventilated cover for 360mm subracks	959-262278H



Style B EMC cover

FIRE ENCLOSURE COVER

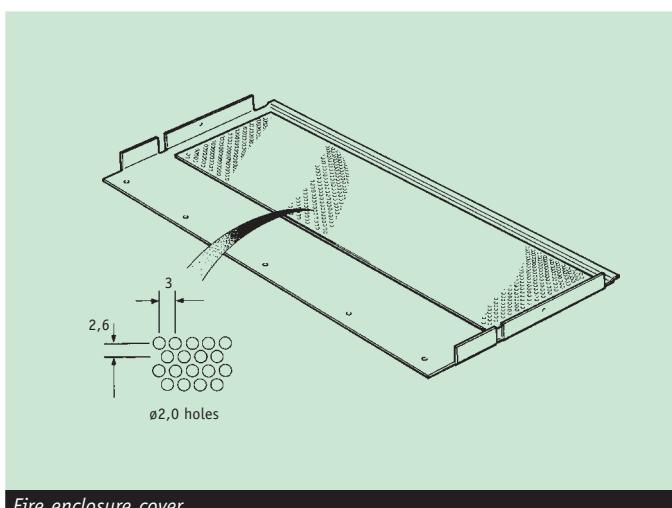
This version meets the requirements of EN60950 regarding hole size and spacing. Normally required at the bottom only, it will replace the normal ventilated type.

Contents of kit

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

Ordering information

Description	Order code
Fire enclosure cover for 240 subracks	959-262217F
Fire enclosure cover for 300 subracks	959-262218D
Fire enclosure cover for 360 subracks	959-262219B



Fire enclosure cover