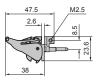


## Identification strips

for type I, II extractor handle and type IV injector/extractor handle Width 4 HP

Packs of	Model No. RP
100	3684.328





## Injector/extractor handle type IVs

#### with push-button

For inserting and removing connectors with a large number of pins. A metal insert ensures reliable functioning, even at forces of up to 815 N.

- Insertion/removal function
- Push-button for locking and unlocking the • board type plug-in unit (cannot be extracted in the locked position) • Optionally with  $1/_2$  HP offset PCB attachment,
- e.g. for component mounting on both sides
- Optional integral micro-switch for "live insertion" applications
- · ESD pin to dissipate static charges before contacting the connectors and for precise positioning of the board type plug-in unit
- Codeable
- Integral PCB attachment · Bayable.

Material:

#### Plastic/metal

Supply includes:

Assembly parts.

#### Note:

- Insertion only when used with front horizontal rails, with 10 mm extension (B),
- With 3 U front panels, only one extractor handle is required.

#### Handles without offset

Installation	Packs of	Model No. RP
top	1	3688.770
bottom	1	3688.771

#### Handles with 1/2 HPoffset

Installation	Packs of	Model No. RP
top	1	3688.772
bottom	1	3688.773

#### ┿ Accessories:



Keyable guide rails Keyable guide rails with 1/2 HP offset Micro-switches Connector pin for baying



#### Connection pin for injector/extractor handles, types IV, IVs and VII The connection pin can be used to connect injector/extractor handles, types IV, IVs and VII.

Material: Steel

Packs of	Model No. RP
20	3685.319

# Injector/extractor handles





# Injector/extractor handle type VII

#### Plastic (telecom)

For inserting and removing connectors with a large number of pins. This handle was specifically designed for use in telecom applications.

- Insertion/removal function
- Optionally with <sup>1</sup>/<sub>2</sub> HP offset PCB attachment, e.g. for component mounting on both sides
- Minimum front space requirements, due to fold-up handle
- Codeable
- Optional integral micro-switch for "live insertion" applications
- ESD pin to dissipate static charges prior to making contact with the connectors and for precise positioning of the board type plug-in unit
- Large labelling area on the front.

## Material:

Plastic

Supply includes: Assembly parts.

#### Note:

Insertion only when used with front horizontal rails, with 10 mm extension (B),

#### Handles without offset

Installation	Packs of	Model No. RP
top	1	3688.784
bottom	1	3688.785

#### Handles with 1/2 HPoffset

Installation	Packs of	Model No. RP
top	1	3688.780
bottom	1	3688.781

# + Accessories:

Keys,

Keyable guide rails Keyable guide rails with <sup>1</sup>/<sub>2</sub> HP offset Micro-switches Connector pin for baying





# Injector/extractor handle type VII

#### Metal (telecom)

For inserting and removing connectors with a large number of pins (up to 815 N). This handle was specifically designed for use in telecom applications.

- Insertion/removal function
- Optionally with <sup>1</sup>/<sub>2</sub> HP offset PCB attachment, e.g. for component mounting on both sides
- Minimum front space requirements, due to fold-up handle
- Codeable
- Optional integral micro-switch for "live insertion" applications
- ESD pin to dissipate static charges prior to making contact with the connectors and for precise positioning of the board type plug-in unit
- Metal design for use in aggressive atmospheres.
  Material:

# Die-cast zinc

Die-cast zinc

#### Supply includes: Assembly parts.

#### Note:

Insertion only when used with front horizontal rails, with 10 mm extension (B),

#### Handles without offset

Installation	Packs of	Model No. RP
top	1	3688.790
bottom	1	3688.791

#### Handles with 1/2 HPoffset

Installation	Packs of	Model No. RP
top	1	3688.786
bottom	1	3688.787

# Accessories:

Keys

Keyable guide rails Keyable guide rails with <sup>1</sup>/<sub>2</sub> HP offset Micro-switches Connector pin for baying



## **Micro-switch**

For "live insertion" applications. Installation in injector/extractor handles, types IV, IVs and VII. May also be retrofitted.

Technical specifications: Switching load: 50 mA 30 V DC Service life/switching cycles: At nominal load: 30,000 mechanical: 50,000

Packs of	Model No. RP
10	3684.410

Also required:

Micro-switch mounting clip

Model No. RP



# Micro-switch

with cable and connector For "live insertion" applications. Installation in injector/extractor handles, types IV IVs and VII.

#### Supply includes: Micro-switch, connector type Molex 51021-0300, mounting clips, 3 cables, 25 mm x #32 AWG, fully assembled.

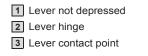
	1 set	3686.536
IV,		

Also required:

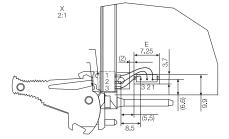
Packs of

Micro-switch mounting clip

Micro-switch:with cable and connector



# 3 2 1-2 micro-switch levers depressed Injector/extractor handle in latch position 1.3 micro-switch levers not depressed Injector/extractor handle unlatched





## Micro-switch mounting clip

**Plastic covers** 

for PCBs

version.

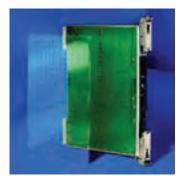
For mounting micro-switches in handles.

For mechanical protection of the component side and of the EMC gaskets.

Attachment holes as per CPCI or VME-specifications. Optionally available as perforated or solid

Packs of	Model No. RP
10	3684.411





rsion.	maximum temperature up to 120°C				
		Model No. RP			
For PCBs	Packs of		for cPCI		for VME
		perforated 1)	solid <sup>1)</sup>	solid	solid
211 × 100 mm	1	3687.932	3686.572	3685.966	3685.626
3U x 160 mm	5	_	-	-	3685.279
3U x 220 mm	1	-	-	-	3685.805
	5	_	-	-	3685.266
6U x 80 mm	1	3687.933	3686.573	3686.037	3686.146
6U x 160 mm	1	3687.934	3686.574	3685.967	3685.627
	1	9905.574 <sup>2)</sup>	9905.990 <sup>2)</sup>	-	-
	5	-	-	-	3685.280
6U x 220 mm	1	_	-	-	3685.824
	5	_	-	-	3685.000

\_

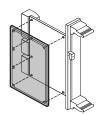
Material:

0.3 mm plastic, anti-static

Maximum temperature up to 65°C

1) 0.5 mm plastic, transparent, anti-static

UL 94-V0, maximum temperature up to 65°C <sup>2)</sup> 0.5 mm plastic, black, anti-static UL 94-V0,



## Also required: Required for mountin

Required for mounting the perforated cPCI covers:

Mounting clips

Packs of	Model No. RP
100	3687.955



## **Universal holder** for front panel support

Material: Nickel-plated plastic

HP	Packs of	Model No. RP
4	1	3687.545



# Flat front panels

with type V handle and PCB holder Complete modular systems

#### Material:

Front panel: 2.5 mm Aluminium, natural anodised Handle: Aluminium, natural anodised PCB holder: Polycarbonate

- Supply includes: 1 front panel, 1 handle (2 with 6 U), 1 PCB holder (2 with 6 U),
- assembly parts.

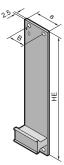
	а	W (B)	Model	No. RP
ΗP	mm	mm	3U H = 128.7	6U H = 262.05
3	14.9	-	3652.000	3652.200
4	20.0	-	3652.010	3652.210
5	25.1	-	3652.020	3652.220
6	30.1	-	3652.030	3652.230
7	35.2	-	3652.040	3652.240
8	40.3	-	3652.050	3652.250
10	50.5	35.6	3652.060	3652.260
12	60.6	45.7	3652.070	3652.270
14	70.8	55.9	3652.080	-

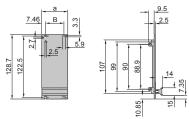
 $\checkmark$ Available with optional metal screw collars.

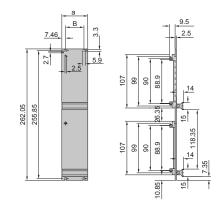


# + Accessories:

Identification strips for handles,





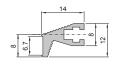




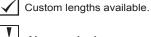


# **Type VI handle**

Aluminium Material: Aluminium, anodised



HP	Model No. RP	HP	Model No. RP
3	3685.605	12	3685.612
4	3685.606	14	3685.613
5	3685.607	21	3685.614
6	3685.608	28	3685.615
7	3685.609	42	3685.616
8	3685.610	84	3685.617
10	3685.611	1 m	3685.618





Mounting kit packs of 1 set, Model No. RP 3687.146 (from 6 HP 2 packs required)

### PCB holder kit

For attaching the PCB to front panels with handle types I, II, IV, IVs, VII.

Material: Die-cast

Note:

Only required at the top with 3U front panels.



Packs of

10

Packs of

10

For securing PCBs to PCB holders: Pan-head screws packs of 100, Model No. RP 3654.320 For attaching the front panel to the PCB holder: Oval head screw packs of 100, Model No. RP 3685.282.

Model No. RP

3685.198

Model No. RP

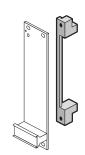
3606.330



# **PCB** holder For front panels For attaching PCBs to front panels (handle type V, VI).

Material: Noryl

Supply includes: Assembly parts.



# Front panels: for subracks Handles: for subracks



## Mezzanine front panels Extruded aluminium section

For PCI mezzanine cards (PMC).

Conforms to IEEE 1386 **Material/surface finish:** Extruded aluminium section, clear-chromated

Packs of	Model No. RP
1	3688.658



Accessories:

EMC seals Assembly screws M2.5 x 6 packs of 100, Model No. RP 3654.340



## Mezzanine front panels Die-cast zinc For PCI mezzanine cards (PMC).

Conforms to IEEE 1386 Material: Die-cast zinc

Packs of	Model No. RP
1	3688.659



EMC seals Assembly screws M2.5 x 6 packs of 100, Model No. RP 3654.340



Support spacers for mezzanine cards 10 mm, for mounting mezzanine cards.

Packs of	Model No. RP
1	3688.663



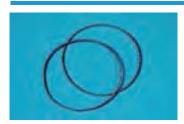
# Covers

for mezzanine cut-outs

To conceal unused mezzanine cut-outs. The covers are simply clipped into the cut-outs.

Material: Stainless steel

Packs of	Model No. RP
1	3688.660



#### EMC seals

for mezzanine front panels

can be inserted into the all-round channel of the mezzanine front panels.

#### Material/surface finish:

Sealing ring made of 1.1 mm conductive carbon filled silicon, sealing gasket made from 0.18 mm (0.9 mm coil) stainless steel.

Design	Packs of	Model No. RP
Sealing ring	1	3688.661
Sealing gasket	1	3688.662

# **Guide rails**

Model No. RP

3606.140

3606.200



# **Guide rails**

for box type plug-in units For PCB depth 1.6 mm. For insertion into covers with vent slots (from 12 HP).

Material: Noryl

# Air block panel

#### for unused slots

To conceal unused slots and prevent unwanted airflow. The air block panel simply snaps into position on the guide rails.

## Material:

Polycarbonate, self-extinguishing to UL 94-V0 Colour: Blue

Note:

Not suitable for use in conjunction with guide rails with 1/2 HP offset.

For keyable guide rails	Packs of	Model No. RP
160 mm	1	3687.924

Packs of

10

10

For PCB depth

mm

160

220



# 3 2 1



# 1 4 2

## **ESD** contacts

for installation in keyable guide rails. To discharge static charges.

- 1 ESD contact for guide rail For permanent direct discharge via the PCB.
- 2 ESD contact for front panel To discharge static charges in conjunction with the ESD pin. For insertion into the end piece of the guide rail.
- 3 ESD pin
- 4 Keys

### Material:

- 1 Stainless steel
- 2 Tin bronze, tin-plated

ESD contact for	Packs of	Model No. RP
Guide rail	50	3684.204
Front panel	50	3684.205

#### Note:

Only for use in conjunction with extractor handle with ESD pin (type IV, IVs, VII),