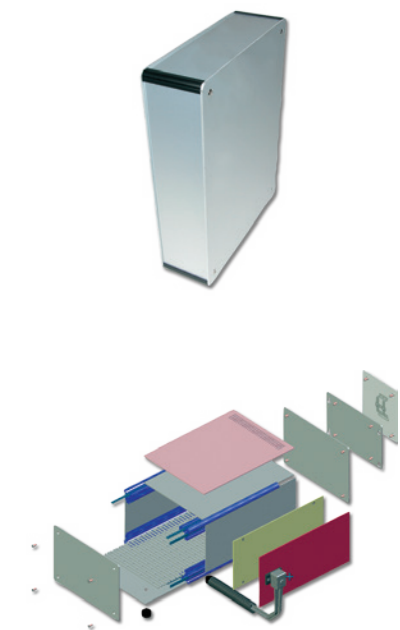


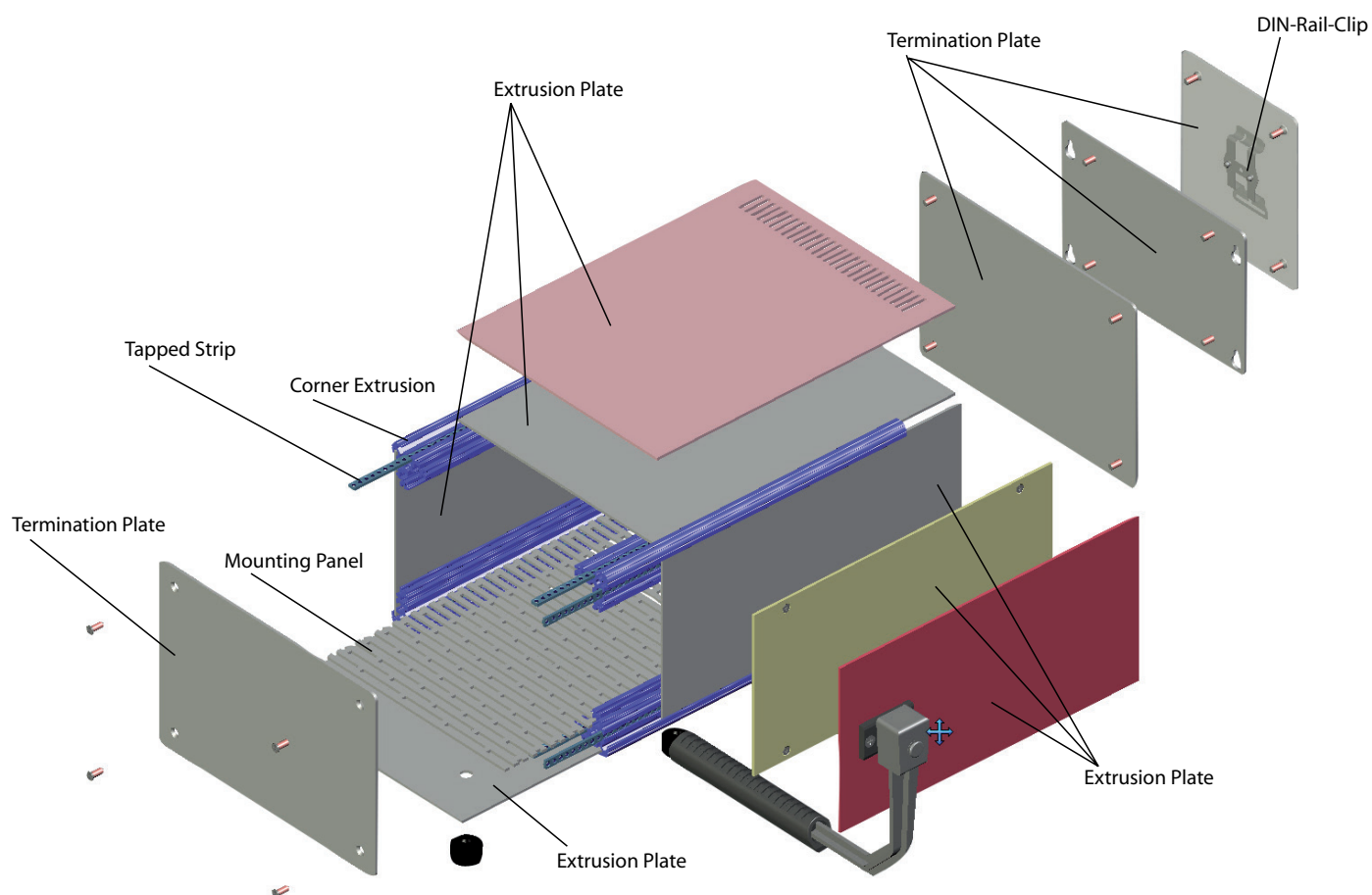
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5.1 Varietybox 35 Overview

5.1.1 Construction and Features

- The Varietybox 35 is constructed from 4 equal corner extrusions and 6 flat plates
- Multifunctional corner extrusion made from aluminium
- Flat plates made from aluminium sheet metal 2.0 mm
- Fast assembly (1-2 minutes)
- Very cost effective solution
- Easy to modify
- Protection to IP30 is assured with ventilation slots, IP40 without ventilation slots
- EMC level basic can be achieved when using clear passivated corner extrusions
- Hard and wear resistant solution with standard anodised corner extrusions



10: Varietybox 35



Very flexible and portable

- Desktop enclosures
- DIN-Rail enclosures
- Wall-mounted enclosures
- Flat enclosures
- Multi-purpose enclosures
- Hand-held boxes
- 19" rack-mount enclosures (modified standard)

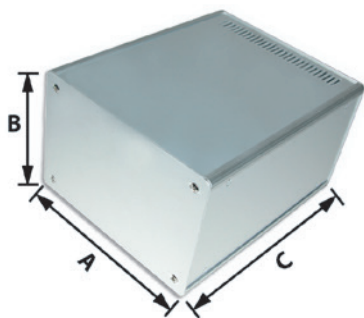
Application examples

- Measurement equipment
- Control instruments
- Test equipment
- Maintenance unit

Colours

- Our ability to adapt existing components to your application, makes Elma your preferred solution partner
- You find our most common colours in section F, but we can deliver your customised Varietybox 35 in any other colour

Standard outer-dimensions



A		X	B		X	C	
mm	inch		mm	inch		mm	inch
74	2.91		74	2.91		64	2.52
104	4.09		104	4.09		94	3.70
125	4.92		125	4.92			
134	5.27		134	5.27		124	4.88
194	7.63		194	7.63		184	7.24
254	10.0					244	9.60
258.35	10.17		258.35	10.17			
314	12.36		314	12.36		304	11.96

Other dimensions available upon request

5.1.2 Multifunctional Corner Extrusion



- Functions symmetrical
- Can be mounted twisted
- Dimension: approximately 30 mm
- Outer radius 5 mm
- Material: Aluminium
- Different colours (anodised or painted)
- Conductive or wear resistant



- Take-up of sheet metal 1.5 mm or 2.0 mm
- Mounting through insertion
- Use of flat sheet metal
- Use of different materials possible
- Different surfaces, colours



- Insertion of tapped strip 6x2 mm, M3 or M2.5
- Insertion of square nut M3
- Possibility of screw down extrusion plates
- For better EMC-contacting
- For better stability
- For accessibility with removable extrusion plates



- Groove for insertion of a sealing gasket
- For secure EMC-contacting
- For higher IP-Protection
- For firmer securing of non-screwed extrusion plates



- Insertion of tapped strip 6x2 mm, M3 or M2.5
- Insertion of square nut M3
- For direct mounting of components within the Varietybox 35
- For assembling a mounting plate
- For mounting of a card stopper



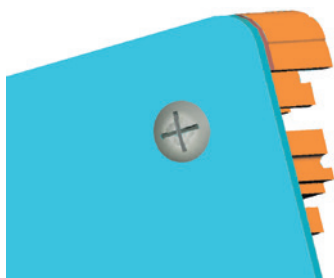
- Groove for direct insertion of PCB's
- Sufficient space for double sided PCB's
- Simple insertion until the card stopper



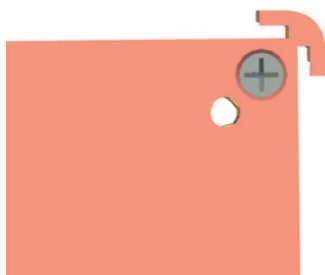
- Groove for direct sliding of a mounting panel or a PCB
- Sufficient place for feet as well as for press-in nuts, screw heads, etc.



- Mounting of an earthing terminal M3.5
- Secure connections to the ground



- Hole for direct mounting of front and rear panel
- Mounting with 4 screws M4
- Use of flat sheet metal
- Use of different materials possible
- Various surfaces colours
- Front-/Rear panel can be used as a side panel (by relating the whole box by 90°)



- Hole for direct mounting of an intermediate plate
- For additional stability
- For integration of further features

10: Varietybox 35

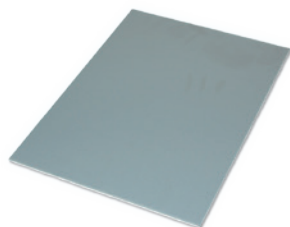
Configuration

B



Corner Extrusions 5.2.1

- Different lengths
- Different versions



Extrusions Plates 5.2.2

- With or without mounting holes
- With or without air perforation
- With or without holes for mounting feet
- With or without holes for handle



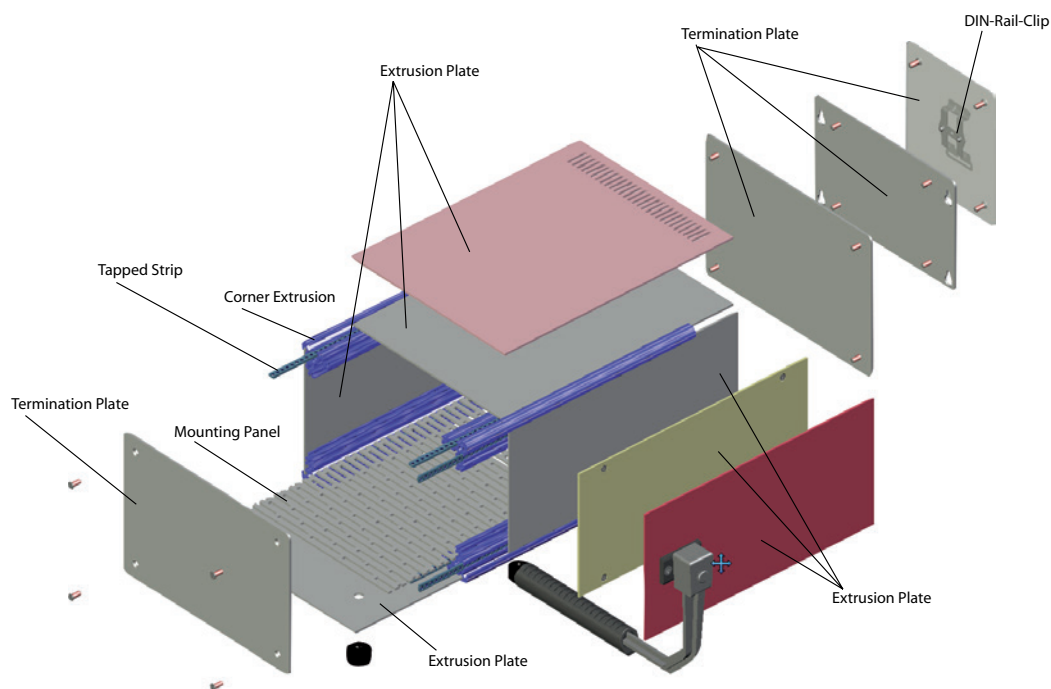
Front / Rear Terminations Plates 5.2.3

- Standard
- For Eurocard mounting
- For DIN-Rail Snap-on mounting
- For wall-mounting



Accessories 5.3

- Bumpon (self adhesive feet)
- Sealing gasket
- Mounting plates
- Card Stop
- EMC gasket
- Earthing terminal
- Assembly material
- U-handle
- Spacers





5.2 Configuration Basic Box

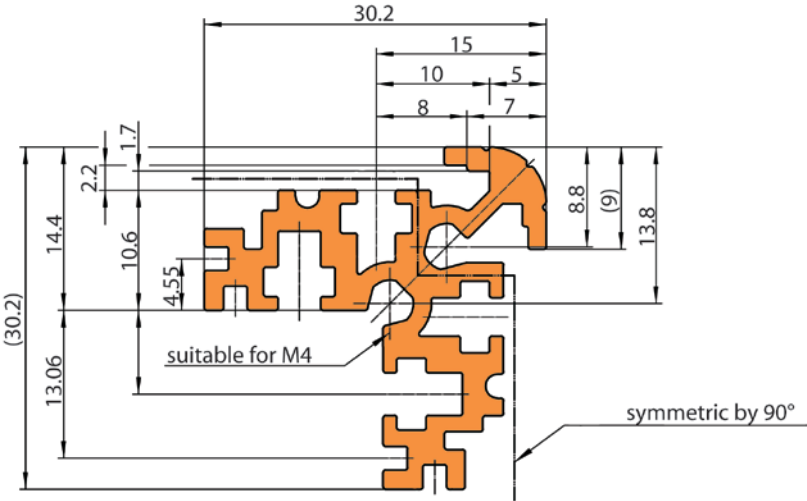
5.2.1 Corner Extrusions

- Extruded aluminium
- Versions: clear anodised / black anodised / clear passivated (conductive)
- 7 different lengths
- Other sizes, colours and surface treatments available upon request
- **Scope of delivery:**
 - 1 corner extrusion
- Note: for one Varietybox 35 you have to order 4 corner extrusions



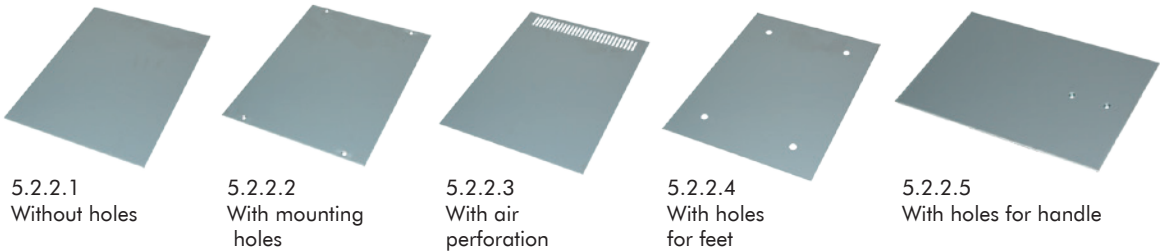
5.2.1 Corner Extrusions

Length		Part-No.	Part-No.	Part-No.	Part-No.
mm	inch	clear anodised	black anodised	clear passivated	raw
60	2.36	66-244-060-1	66-244-060-2	66-244-060-3	-
90	3.54	66-244-090-1	66-244-090-2	66-244-090-3	-
120	4.72	66-244-120-1	66-244-120-2	66-244-120-3	-
180	7.08	66-244-180-1	66-244-180-2	66-244-180-3	-
240	9.44	66-244-240-1	66-244-240-2	66-244-240-3	-
300	11.81	66-244-300-1	66-244-300-2	66-244-300-3	-
1350	53.15	66-244-1350-1	66-244-1350-2	66-244-1350-3	66-244-100



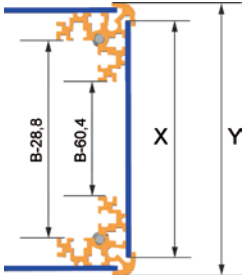
5.2.2 Extrusion Plates

- Without holes can be slipped into the extrusion
- With or without air perforation
- With or without holes for mounting feet
- With holes for screwing for more stability and for direct access
- Material: aluminium 2.0 mm, front clear anodised, rear conductive
- Other sizes, colours and surface treatments available upon request
- Scope of delivery:**
 - 1 extrusion plate
- Note: for one Varietybox 35 you have to order 4 extrusion plates



Conversion help

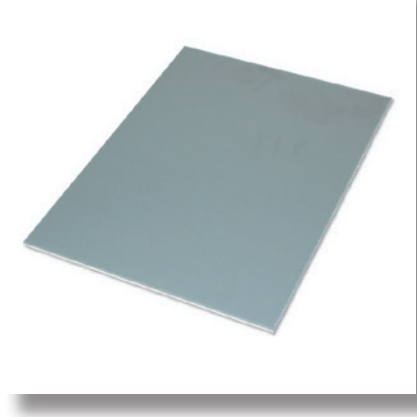
If extrusion plate size (X) is			then use termination plate size (Y)	
mm	inch		mm	inch
60	2.36	➔	74	2.91
90	3.54		104	4.09
120	4.72		134	5.27
180	7.08		194	7.63
240	9.44		254	10.0
300	11.81		314	12.36



5.2.2.1 Extrusion Plates without Holes

- For direct insertion into the corner extrusions
- Scope of delivery:**
 - 1 extrusion plate
- Sealing gasket for firmer securing of non-screwed extrusion plates see 5.3.2

5.2.2.1 Extrusion Plates without Holes



Dimensions		Part-No.
mm	inch	
60 x 60	2.36 x 2.36	35-20001
60 x 90	2.36 x 3.54	35-20002
60 x 120	2.36 x 4.72	35-20003
60 x 180	2.36 x 7.08	35-20004
60 x 240	2.36 x 9.44	35-20005
90 x 90	3.54 x 3.54	35-20036
90 x 120	3.54 x 4.72	35-20006
90 x 180	3.54 x 7.08	35-20007
90 x 240	3.54 x 9.44	35-20008
120 x 120	4.72 x 4.72	35-20009
120 x 180	4.72 x 7.08	35-20010
120 x 240	4.72 x 9.44	35-20012
120 x 300	4.72 x 11.81	35-20041
180 x 180	7.08 x 7.08	35-20013
180 x 240	7.08 x 9.44	35-20014
180 x 300	7.08 x 11.81	35-20042
240 x 240	9.44 x 9.44	35-20016
240 x 300	9.44 x 11.81	35-20037
300 x 300	11.81 x 11.81	35-20038

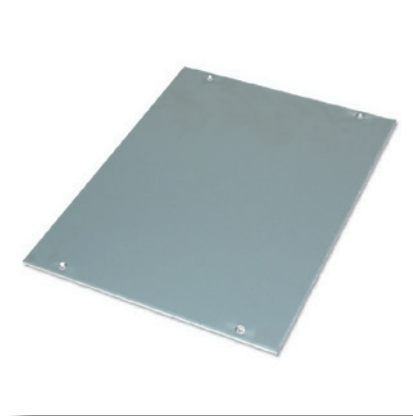
For mounting of Single or Double Eurocards

- Suitable termination plates see 5.2.3.2 and 5.2.3.3

Dimensions		Part-No.
mm	inch	
111.00 x 180	4.37 x 7.08	35-20011
244.35 x 180	9.62 x 7.08	35-20015

5.2.2.2 Extrusion Plates with Mounting Holes

- For more stability
- Removable for maintenance and accessibility
- **Scope of delivery:**
 - 1 extrusion plate
- Assembly material see below



5.2.2.2 Extrusion Plates with Holes

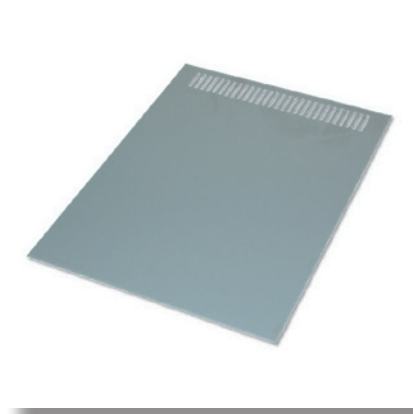
For dimensions		Eff. dimensions		Part-No.
mm	inch	mm	inch	
120 x 120	4.72 x 4.72	117.5 x 120	4.62 x 4.72	35-20017
120 x 180	4.72 x 7.08	117.5 x 180	4.62 x 7.08	35-20018
120 x 240	4.72 x 9.44	117.5 x 240	4.62 x 9.44	35-20019
180 x 120	7.08 x 4.72	177.5 x 120	6.98 x 4.72	35-20020
180 x 180	7.08 x 7.08	177.5 x 180	6.98 x 7.08	35-20021
180 x 240	7.08 x 9.44	177.5 x 240	6.98 x 9.44	35-20022
240 x 120	9.44 x 4.72	237.5 x 120	9.35 x 4.72	35-20023
240 x 180	9.44 x 7.08	237.5 x 180	9.35 x 7.08	35-20024
240 x 240	9.44 x 9.44	237.5 x 240	9.35 x 9.44	35-20025

Assembly Material

Description	For length / eff. length	Part-No.
Cross recessed countersunk screw M3 x 6		5332-06
Torx countersunk screw M3 x 6, size T10		5470-22
Tapped strip 2 x 6 mm, M3	120 mm / 106.2 mm	61-457
Tapped strip 2 x 6 mm, M3	180 mm / 212.9 mm	61-428
Tapped strip 2 x 6 mm, M3	240 mm / 212.9 mm	61-454
Square nut M3		5621-40
Plastic glider		61-015
Set screw for fixing of tapped strips M3 x 6		5413-06

5.2.2.3 Extrusion Plates with Air Perforation

- For thermal optimisation
- IP30 is assured with ventilation slots
- **Scope of delivery:**
 - 1 extrusion plate
- Sealing gasket for firmer securing of non-screwed extrusion plates see 5.3.2



5.2.2.3 Extrusion Plates with Air Perforation

Dimensions		Part-No.
mm	inch	
120 x 300	4.72 x 11.81	35-20044
180 x 240	7.08 x 9.44	35-20026
180 x 300	7.08 x 11.81	35-20046
240 x 180	9.44 x 7.08	35-20027
240 x 240	9.44 x 9.44	35-20028
300 x 300	11.81 x 11.81	35-20045

5.2.2.4 Extrusion Plates with Holes for Feet

- For mounting of case feet, see below
- **Scope of delivery:**
 - 1 extrusion plate

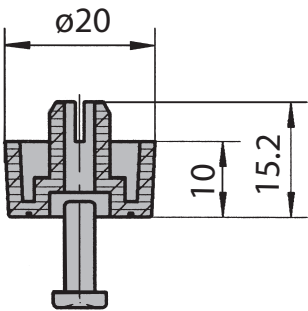


5.2.2.4 Extrusion Plates with Holes for Feet

Dimensions		Part-No.
mm	inch	
180 x 240	7.08 x 9.44	35-20029
180 x 300	7.08 x 11.81	35-20043
240 x 240	9.44 x 9.44	35-20030
240 x 300	9.44 x 11.81	35-20039
300 x 300	11.81 x 11.81	35-20040

Case Feet

- Black plastic, UL94 V-0
- Easy and fast mounting
- Mounting without tools
- **Scope of delivery:**
 - Set of 4 pieces plastic feet
 - Incl. push rivet



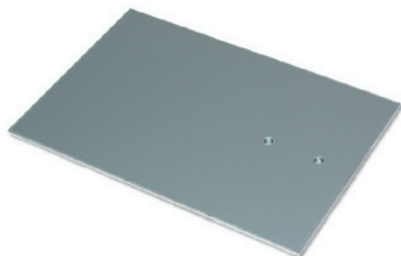
Description	Part-No.
Set of case feet, black (RAL 9005)	63-528
Set of case feet, light grey (RAL 7035)	63-529

Our ability to adapt existing components to your application,
make Elma your preferred solution partner.

10: Varietybox 35

5.2.2.5 Extrusion Plates with Holes for Handle

- For mounting a handle onto Varietybox 35
- **Scope of delivery:**
 - 1 extrusion plate
- Carrying handle see below
- Screws to mount carrying handle see below

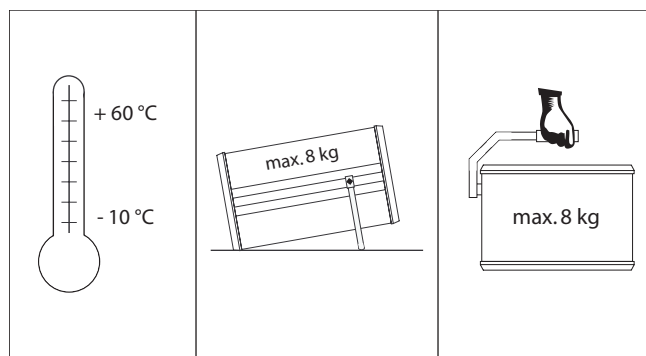


5.2.2.5 Extrusion Plates with Holes for Handle

Dimensions		Part-No.
mm	inch	
90 x 180	3.54 x 7.08	35-20031
90 x 240	3.54 x 9.44	35-20032
120 x 180	4.72 x 7.08	35-20033
120 x 240	4.72 x 9.44	35-20034
180 x 240	7.08 x 9.44	35-20035

Carrying Handle

- Zinc die-cast powder-coated
- Handle piece: Black polyurethane, UL 94V-0
- The handle is looking at 90°, while the carrying position has a slight detent only
- Following the case size, there are handles available in two different widths
- **Scope of delivery:**
 - Pre-assembled handle with assembly material



Carrying capacity dependent on distribution of load and handling.
Decreases with dynamic stress



Carrying Handle

Colour	Part-No. 212 mm (8.34")	Part-No. 188 mm (7.40")
Black	33-645	33-646

Assembly Material for Handle

- 2 screws per 1 handle

Description	Part-No.
Cross recessed countersunk screw M4 x 10	5342-10
Torx countersunk screw M4 x 10, size T20	5470-26



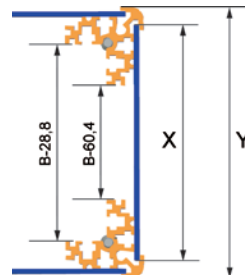
10: Varietybox 35

5.2.3 Front / Rear Termination Plates

- Aluminium sheet metal 2.0 mm
- Front clear anodised, rear conductive
- Other sizes, colours and surface treatments available upon request
- Scope of delivery:**
 - 1 front / rear termination plate
- Note: for one Varietybox 35 you have to order 2 termination plates (1 front / 1 rear)

Conversion help

If extrusion plate size (X) is			then use termination plate size (Y)	
mm	inch		mm	inch
60	2.36	➔	74	2.91
90	3.54		104	4.09
120	4.72		134	5.27
180	7.08		194	7.63
240	9.44		254	10.0
300	11.81		314	12.36



5.2.3.1 Termination Plates Standard

- Standard termination of Varietybox 35
- Scope of delivery:**
 - 1 termination plate
- Per termination plate 4 screws are needed, see 5.2.3.5

5.2.3.1 Termination Plates Standard

Dimensions		Part-No.
mm	inch	
74 x 74	2.91 x 2.91	35-10001
74 x 104	2.91 x 4.09	35-10002
74 x 134	2.91 x 5.27	35-10003
74 x 194	2.91 x 7.63	35-10004
74 x 254	2.91 x 10.00	35-10005
104 x 104	4.09 x 4.09	35-10006
104 x 134	4.09 x 5.27	35-10007
104 x 194	4.09 x 7.63	35-10008
104 x 254	4.09 x 10.0	35-10009
134 x 134	5.27 x 5.27	35-10010
134 x 194	5.27 x 7.63	35-10011
134 x 254	5.27 x 10.0	35-10012
134 x 314	5.27 x 12.36	35-10022
194 x 194	7.63 x 7.63	35-10024
194 x 254	7.63 x 10.0	35-10013
194 x 314	7.63 x 12.39	35-10023
254 x 254	10.00 x 10.00	35-10019
254 x 314	10.00 x 12.36	35-10020
314 x 314	12.36 x 12.36	35-10021

5.2.3.2 Termination Plates for Eurocard Mounting

- Direct sliding of Single or Double Eurocard within Varietybox 35
- Suitable termination plates for DIN-Rail mounting 5.2.3.3
- Scope of delivery:**
 - 1 termination plate
- Per termination plate 4 screws are needed, see 5.2.3.5

5.2.3.2 Termination Plates for Eurocard Mounting

Dimensions		Description	Part-No.
mm	inch		
125.00 x 104	4.92 x 4.09	for Single Eurocard	35-10014
258.35 x 104	10.17 x 4.09	for Double Eurocard	35-10016

5.2.3.3 Termination Plates for DIN-Rail Snap-on Mounting

- Incl. riveted steel DIN-clip
- Suitable for top hat rails 35 mm, acc. to IEC 60715 or EN 50022
- Suitable front termination plates see 5.2.3.2
- **Scope of delivery:**
 - 1 termination plate
- Per termination plate 4 screws are needed, see 5.2.3.5



5.2.3.3 Termination Plates for DIN-Rail Snap-on Mounting

Dimensions		Description	Part-No.
mm	inch		
125.00 x 104	4.92 x 4.09	DIN-Rail mounting	35-10015
258.35 x 104	10.17 x 4.09	DIN-Rail mounting	35-10017

5.2.3.4 Termination Plate for Wall Mounting

- For direct wall mounting of Varietybox 35
- Suitable front termination plates see 5.2.3.1
- **Scope of delivery:**
 - 1 termination plate
- Per termination plate 4 screws are needed, see 5.2.3.5



5.2.3.4 Termination Plate for Wall Mounting

Dimensions			Part-No.
mm	inch		
104 x 164	4.09 x 6.45	for 104 x 134	35-10018

Other dimensions and arrangements available upon request

5.2.3.5 Screws for Mounting Termination Plates

- Small head
- Per termination plate 4 screws are needed (8 screws per Varietybox 35)



5.2.3.5 Screws for Mounting Termination Plates

Description	Part-No.
Torx countersunk screw M4x10, size T10	5441-54
Torx countersunk screw M4x10, size T10, black	5441-57

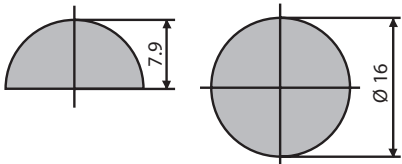
B



5.3 Accessories

5.3.1 Bumpon (Self adhesive Feet)

- Self adhesive bumpon
- Black polyurethane, UL94 HB
- **Scope of delivery:**
 - 1 bumpon



5.3.1 Bumpon (Self adhesive Feet)

Description	Part-No.
Set of 4 plastic bumpon	7650-52



5.3.2 Sealing Gasket

- For EMC-sealing from extrusion to extrusion plates
- For higher IP-protection (upon request, still in engineering process)
- Firmer securing of non-screwed extrusion plates
- Conductive sealing
- **Scope of delivery:**
 - 1 sealing gasket (conductive or non-conductive)

5.3.2 Sealing Gasket

Description	Part-No.
Sealing gasket conductive, length 700 mm	33E025
Sealing gasket non-conductive, length 1000 mm	33-025



5.3.3 Mounting Plates

- Made of 2 mm (0.07") thick sheet aluminium
- Dimensions correspond to the respective mounting plate dimensions
- The position of the slots allows various mounting arrangements
- The mounting plate is screwed to corner extrusion via M3 nut and screw in 4 places
- **Scope of delivery:**
 - 1 mounting plate, blank aluminium
- Assembly material see 5.3.7



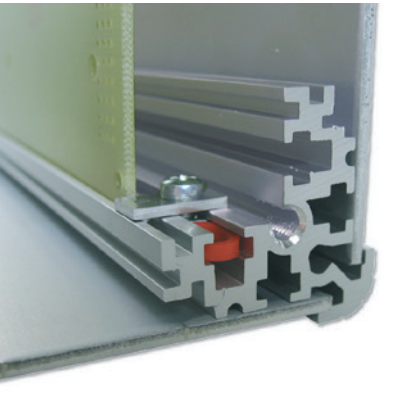
5.3.3 Mounting Plates

For termination Plate Width		Mounting Plate Dimension		Part-No.
mm	inch	mm	inch	
194	7.63	160 x 116.5	6.30 x 4.72	35-30004
254	10.0	220 x 116.5	8.66 x 4.72	35-30007
254	10.0	220 x 176.5	8.66 x 7.08	35-30008
314	12.36	280 x 296.5	11.02 x 11.67	35-30012
314	12.36	280 x 116.5	11.02 x 4.72	35-30014

Other sizes available on request.

5.3.4 Card Stop

- Card stoppers are used for card or mounting plate fixation when directly inserted
- **Scope of delivery:**
 - 1 card stopper aluminium
 - 1 cross recessed screw M3 x 6
 - 1 square nut M3
 - 2 plastic gliders



5.3.4 Card Stop

Description	Part-No.
Straight version	35-00001
Angled version	35-00002

5.3.5 EMC Gasket

- For EMC level advanced
- Increased EMC level by approximate 10 dB
- Self-adhesive
- Mounting direct onto the front / rear termination plate
- **Scope of delivery:**
 - 1 beryllium-copper contact strip

5.3.5 EMC Gasket

Description	Part-No.
EMC-Gasket, L = 29 mm	7739-31

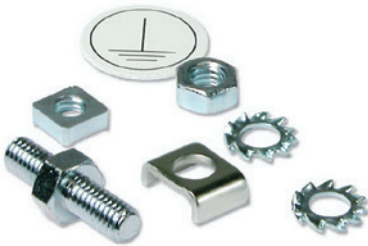


5.3.6 Earthing Terminal

- The earthing terminal facilitates grounding of the Varietybox 35 in accordance with VDE/SEV standard
- **Scope of delivery:**
 - 1 earthing nut M3.5
 - 1 threaded bolt M3.5
 - 1 clamping yoke
 - 2 serrated washers
 - 1 nut M3.5
 - 1 earthing symbol

5.3.6 Earthing Terminal

Description	Part-No.
Earthing terminal	33-619



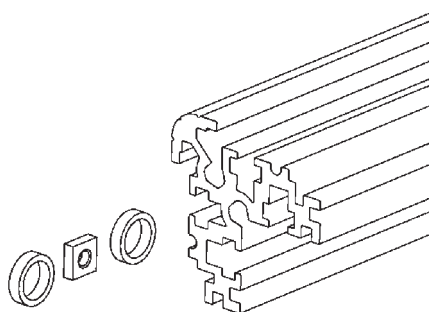
5.3.7 Assembly Material



5.3.7 Assembly Material

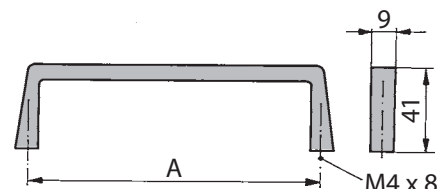
Description	For Length / eff. Length	Part-No.
Cross recessed countersunk screw M4 x 10		5441-51
Cross recessed countersunk screw M3 x 6		5332-06
Torx countersunk screw M3 x 6, size T10		5470-22
Raised cross recessed screw M3 x 6		5330-06
Torx cylinder head screw M3 x 6, size T10		5470-02
Tapped strip 2 x 6 mm, M2.5	120 mm / 106.2 mm	61-459
Tapped strip 2 x 6 mm, M3	240 mm / 212.9 mm	61-454
Square nut M3		5621-40
Plastic glider		61-015
Set screw for fixing of tapped strips M3 x 6		5413-06

Mounting position of plastic gliders and square nut:



5.3.8 U-Handle Aluminium

- Anodised aluminium extrusion
- Width: 9 mm
- **Scope of delivery:**
 - 1 aluminium handle
- Per handle 2 screws are needed, see 5.3.8.1
- Holes for mounting U-handle not included in termination plates (upon request)



5.3.8 U-handle aluminium

A		Part-No.	Part-No.
mm	inch	clear anodised	black anodised
44.5	1.75	60-527	60-527-6
88.9	3.5	60-528	60-528-6
133.4	5.25	60-529	60-529-6
177.8	7.00	60-530	60-530-6
222.3	8.75	60-531	60-531-6

5.3.8.1 Screws

Material	Pcs.	Part-No.
Special philips cylindrical earthing screw M4 x 10	1000	61-260

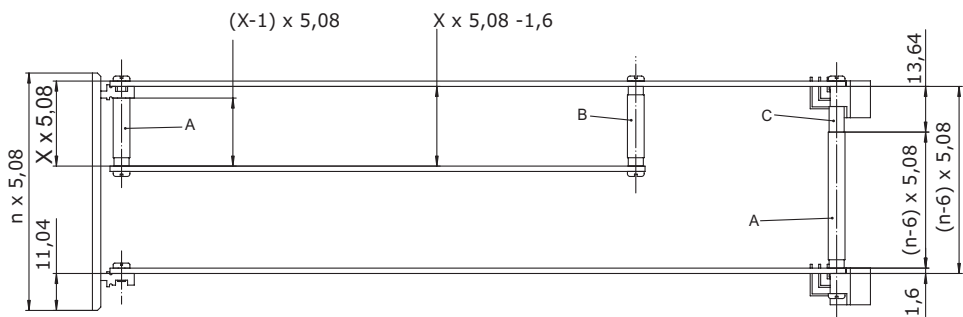


10: Varietybox 35

5.3.9 Spacers

- Four-sided, nickel-plated brass spacers with M2.5 internal threads at both ends
- Using these spacers, additional PCBs may be mounted at a horizontal pitch of 5.08 mm
- Mounting plate is 1.5 mm galvanized steel with mounting holes corresponding to PCBs conforming to IEC 60297

Example of use:



$n \times 5.08$ = theoretical width of front panel
 $x \times 5.08$ = distance of printed PCBs
 n = multiple of the 5.08 pitch of the selected front panel
 x = selected multiple of the 5.08 pitch for the distance of printed PCBs



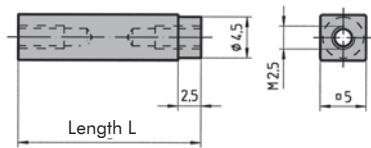
5.3.9.1 Spacers Series A

- Use between PCB mounting lugs and PCBs
- Gives 5.08 mm pitch

Length L		Part-No.
mm	inch	
10.16	0.40	61-300
15.24	0.60	61-301
20.32	0.80	61-302

Other lengths available on request.

Series A

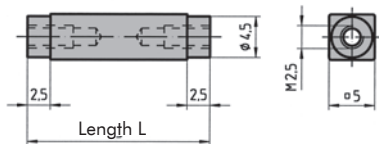


5.3.9.2 Spacers Series B

- Use between two PCBs
- Gives 5.08 mm pitch

Length L		Part-No.
mm	inch	
13.64	0.53	61-320
18.72	0.73	61-321
23.80	0.93	61-322

Series B

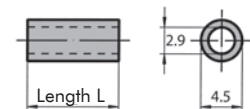


5.3.9.3 Spacers Series C

- Use between a PCB with connector and a second PCB

Length L		Part-No.
mm	inch	
7.64	0.30	61-340

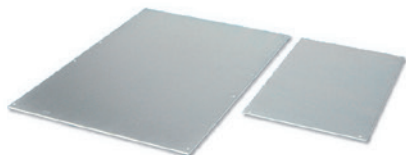
Series C



10: Varietybox 35

5.3.10 Mounting Plates

- Dimensions identical to eurocard dimensions
- 1.5 mm galvanized sheet steel
- **Scope of delivery:**
 - 1 mounting plate
- Assembly material, see 5.3.10.1



5.3.10 Mounting Plates

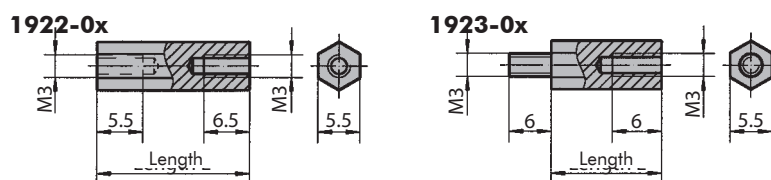
Height	Dimensions	Part-No.
3 U	100 x 160 mm (3.93" x 6.29")	61-350
6 U	233.35 x 160 mm (9.18" x 6.29")	61-351

5.3.10.1 Assembly Material

Description	Part-No.
Screws recessed M2.5 x 5	100 pcs. 5571-05

5.3.11 Hexagonal Spacers M3 Thread

- Galvanized steel
- Ideal for use as supports or spacers
- **Scope of delivery:**
 - 1 spacer



5.3.11 Hexagonal Spacers, M3 Thread

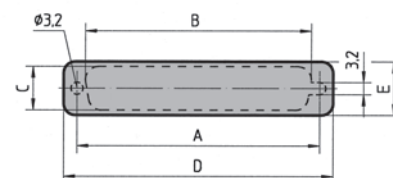
Length L		Part-No.
mm	inch	1 pc.
10	0.39	1922-01
15	0.59	1922-02
30	1.18	1922-05
40	1.57	1922-07

Length L		Part-No.
mm	inch	
8.5	0.33	1923-01
13.5	0.53	1923-02



5.3.12 Covering Caps

- The caps, fit openings for D-Sub connectors and can be fitted without special tools
- Material: ABS grey UL94 HB
- **Scope of delivery:**
 - Plastic covering caps



5.3.12 Covering Caps

Opening		A mm	B mm	C mm	D mm	E mm	Part-No.
DB9	9-pole	25.0	20.5	11.4	32.0	14.0	61-920
DB15	15-pole	33.3	28.8	11.4	40.3	14.0	61-921
DB25	25-pole	47.0	42.5	11.4	54.0	14.0	61-922
DB37	37-pole	63.5	59.1	11.4	70.5	14.0	61-923



5.3.13 Mounting Bracket

- Assembly of a separation
- Separations are manufactured as required by the customer
- Sheet steel
- **Scope of delivery:**
 - 1 mounting bracket
- Assembly material, see 5.3.13.1



5.3.13 Mounting Bracket

Description	Part-No.
Mounting brackets	61-416

5.3.13.1 Assembly Material

Description	Part-No.
Rounded head screws cross recessed M3 x 6	5335-06
Rounded head screws Torx M3 x 6, size T10	5473-01

5.4 Technical Information

5.4.1 IP Protection Classes

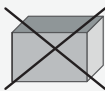
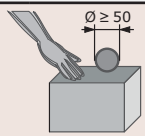
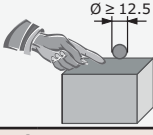
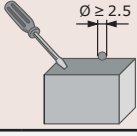
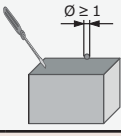
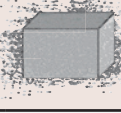
- Protection against contact and foreign bodies
- Protection against water
- Acc. to IEC 60529

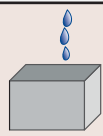
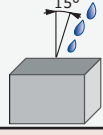
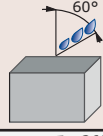
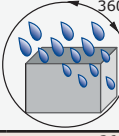
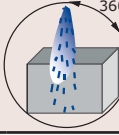
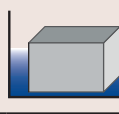
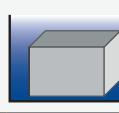
Evaluation of classification

- The test results according to the standard do not entirely exclude leaks and an individual test is therefore recommended in critical cases (with the actual equipment layout)
- The protection class for cabinets and enclosures is specified by IP (International Protection) and two indices

Example IP 55

- Protection against penetration by water jets from all directions
- Complete protection against contact with internal parts and against dust deposition

First Index	Contact Protection	Foreign-Body Protection
0 	No special protection	
1 	Against large areas of body	Large foreign bodies $\varnothing \geq 50 \text{ mm}$ (1.97")
2 	Against fingers or objects of similar size	Medium-sized foreign bodies $\varnothing \geq 12.5 \text{ mm}$ (0.49")
3 	Against tools, wires, etc. with a thickness of $\geq 2.5 \text{ mm}$	Granular foreign bodies $\varnothing \geq 2.5 \text{ mm}$ (0.10")
4 	Against tools, wires, etc. with thickness $\geq 1.0 \text{ mm}$	Granular foreign bodies $\varnothing \geq 1.0 \text{ mm}$ (0.04")
5 	Complete protection	Dust-protected; dust deposits are permitted, but their volume must not affect the function of the unit
6 	Complete protection	Dust-proof

Second Index	Water Protection
0 	No special protection
1 	Against water dripping vertically
2 	Against water dripping at an angle (up to 15° from the vertical)
3 	Against spray water (any direction up to 60° from the vertical)
4 	Against spray water from all directions
5 	Against water jets from a nozzle in all directions
6 	Against inundation
7 	Against immersion
8 	Against submersion