

Abox Ex Rated Junction Boxes

Explosion-protected enclosures for zones 2 and 22

halogen-free



- Abox Ex junction boxes are authorised for use in explosion-endangered areas zones 2 and 22 in interior and exterior areas according to ATEX 100a.

- This has been confirmed in prototype tests by the TÜV Rheinland



- 1.5 - 35 mm²
- Protection category upto IP65
- UV and weather-resistant
- Non-flammable
- Impact and breakage resistant
- Application from -35°C to +40°C

- ATEX 100a authorisation
- Equipment group IIA
- Category 3 GD
- Ignition protection type EEx nA II T6
- Material: Polycarbonate

Abox Ex 400V - 690V



Polycarbonate Junction box according the E DIN IEC 60998-2-5, $U_i = 400/690V$, black, for EX protection zones 2 and 22, authorization number TÜV 05 ATEX 7200, Empty housing TÜV 03 ATEX 7015 U, weather-proof, shock resistant and halogen-free.

For cable glands, see below.

Approved With Terminals		Component Approved Empty		
Description	Cat No.	Description	Cat No.	Dimensions
Ex 025 - 2.52	500 402 01	Ex 025-L	500 902 01	80 x 80 x 52mm
Ex 040 - 42	500 404 01	Ex 040-L	500 904 01	93 x 93 x 55mm
Ex 060 - 62	500 406 01	Ex 060-L	500 906 01	110 x 110 x 67mm
Ex 100 - 102	500 410 01	Ex 100-L	500 910 01	140 x 140 x 79mm
Ex 160 - 162	500 416 01	Ex 160-L	500 916 01	180 x 180 x 91mm
Ex 350 - 352	500 435 01	Ex 350-L	500 935 01	250 x 250 x 115mm



EX glands IP 65

Cable glands with lock nut, ATEX authorisation for zones 2 and 22

KVR EX M20-MGM/sw	227 520 01	50/1
M20 x 1.5, Seal range 5 - 13 mm		
KVR EX M25-MGM/sw	227 525 01	25/1
M25 x 1.5, Seal range 8 - 17 mm		
KVR EX M32-MGM/sw	227 532 01	10/1
M32 x 1.5, Seal range 12 - 21 mm		
KVR EX M40-MGM/sw	227 540 01	5/1
M40 x 1.5, Seal range 16 - 28 mm		
KVR EX M50-MG/sw	227 550 01	5/1
M50 x 1.5, Seal range 21 - 35 mm		



TK & AK Boxes

- Protection category up to IP65 / IP66
- UV and weather-resistant
- Non-flammable
- Impact and breakage resistant
- Application from -35°C to +70°C
- ATEX 100a authorisation
- Equipment group II A
- Category 3 GD
- Products on request
- Material: Polycarbonate

Junction Boxes

Abox 025 to Abox 700

IP65



- Polystyrene / Polycarbonate
- Shockproof
- Large amount of room for connection
- Easy testing facility
- High-position terminals enable rapid and clear wiring (starting with Abox 060)

- ▲ Quick installation due to pressure-tight membrane insertions (Abox 025 and 040)



- ▲ Impact and breakage resistant (e.g. in sports halls)

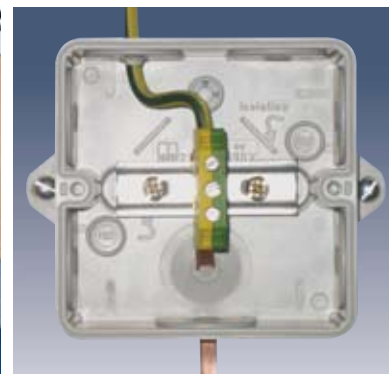
- ▲ With red cover for identification of circuits for safety lighting
- ▲▲ Application also possible under extreme conditions
- ▲▲▲ Abox with bonding

Abox IP65 Junction Boxes Polystyrene

(smooth lid available)



With Terminals			Grey	White	Without Terminals		Grey	White	Red Top	
Description	Term Type	Cat No.			Description	Cat No.				Dimensions
Abox 025 2.5 ²	5pole screw	802 407 01	•		Abox 025 L	802 907 01	•			80 x 80 x 52mm
Abox 025 2.5 ²	5pole screw	802 107 01		•	Abox 025 L/W	802 607 01		•		80 x 80 x 52mm
Abox 025 Logic	5 els Logic	802 307 01	•		Abox 025 SB-L	802 707 01			•	80 x 80 x 52mm
Abox 025 2.5 ² + Lugs	5pole screw	803 407 01	•		Abox 025 AB-L	803 907 01	•			80 x 80 x 52mm
					Abox 025 AB-LW	803 607 01		•		80 x 80 x 52mm
Abox 040 4 ²	5pole screw	804 407 01	•		Abox 070 L	804 907 01	•			93 x 93 x 55mm
Abox 040 4 ²	5pole screw	804 107 01		•	Abox 070 L/W	804 607 01		•		93 x 93 x 55mm
Abox 040 Logic	5 els Logic	804 307 01	•		Abox 070 SB-L	804 707 01			•	93 x 93 x 55mm
Abox 060 6 ²	5Pole Hi Set	806 407 01	•		Abox 060 L	806 907 01	•			110 x 110 x 67mm
					Abox 060 SB-L	806 707 01			•	110 x 110 x 67mm
Abox 100 10 ²	5Pole Hi Set	810 410 01	•		Abox 100 L	810 910 01	•			140 x 140 x 79mm
Abox 160 16 ²	5Pole Hi Set	816 410 01	•		Abox 160 L	816 910 01	•			180 x 180 x 91mm
Abox 350 35 ²	5Pole Hi Set	835 410 01	•		Abox 350 L	835 910 01	•			250 x 250 x 115mm
Abox 700 70 ²	5Pole Hi Set	870 410 01	•		Abox 700 L	870 910 01	•			300 x 450 x 132mm



Abox i IP65 Junction Boxes Polycarbonate



With Terminals			Grey	Black	Without Terminals			Grey	Black	Red Top	
Description	Term Type	Cat No.			Description	Cat No.					Dimensions
Abox-i 025 2.5 ²	5pole screw	490 402 01	•		Abox-i 025 L	490 902 01	•				80 x 80 x 52mm
Abox-i 025 2.5 ² /sw	5pole screw	491 402 01		•	Abox-i 025 SB L	490 702 01			•		80 x 80 x 52mm
					Abox-i 025 L/sw	491 902 01		•			80 x 80 x 52mm
Abox-i 040 4 ²	5pole screw	490 404 01	•		Abox-i 040 L	490 904 01	•				93 x 93 x 55mm
Abox-i 040 4 ² /sw	5pole screw	491 404 01		•	Abox-i 040SB L	490 704 01			•		93 x 93 x 55mm
					Abox-i 040 L/sw	491 904 01		•			93 x 93 x 55mm
Abox-i 060 6 ²	5pole Hi Set	490 406 01	•		Abox-i 060 L	490 906 01	•				110 x 110 x 67mm
Abox-i 060 6 ² /sw	5pole Hi Set	491 406 01		•	Abox-i 060 L/sw	491 906 01		•			110 x 110 x 67mm
Abox-i 100 10 ²	5pole Hi Set	490 410 01	•		Abox-i 100 L	490 910 01	•				140 x 140 x 79mm
Abox-i 100 10 ² /sw	5pole Hi Set	491 410 01		•	Abox-i 100 L/sw	491 910 01		•			140 x 140 x 79mm
Abox-i 160 16 ²	5pole Hi Set	490 416 01	•		Abox-i 160 L	490 916 01	•				180 x 180 x 91mm
Abox-i 160 16 ² /sw	5pole Hi Set	491 416 01		•	Abox-i 160 L/sw	491 916 01		•			180 x 180 x 91mm
Abox-i 350 35 ²	5pole Hi Set	490 435 01	•		Abox-i 350 L	490 935 01	•				250 x 250 x 115mm
Abox-i 350 35 ² /sw	5pole Hi Set	491 435 01		•	Abox-i 350 L/sw	491 935 01		•			250 x 250 x 115mm
Abox-i 700 70 ²	4 x 4Pole	490 470 01	•								440 x 320 x 179mm
Abox-i 1500 150 ²	2 x 4Pole	490 485 01	•								440 x 320 x 179mm
Abox-i 1500 DK 150 ²	4 Blocks	490 585 01	•								440 x 320 x 179mm
Abox-i 2400 150 ²	2 x 4Pole	490 494 01	•								640 x 320 x 179mm
Abox-i 2400 DK 150 ²	4 Blocks	490 594 01	•								640 x 320 x 179mm



- The use of high quality Polycarbonates in the robust Abox-i series enables them to be used under extreme conditions



- Standard installation in damp rooms
- Installation on flammable surface
- Installation in areas where there is a fire hazard
- Installations in horticultural premises

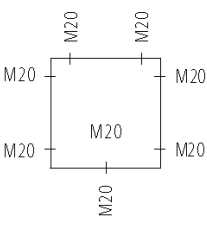
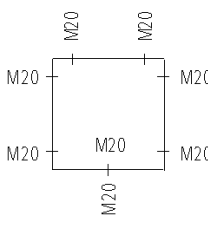
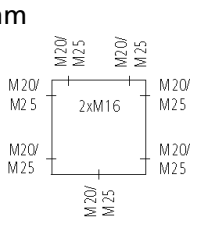
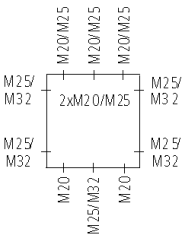
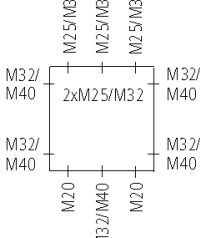
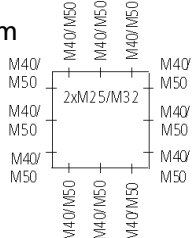
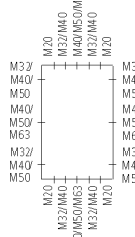
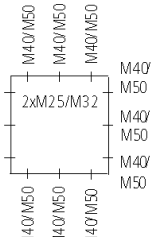
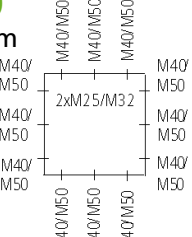
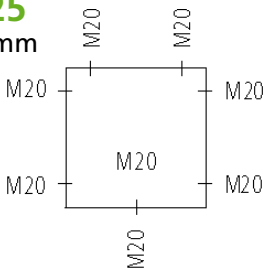
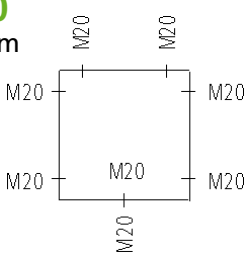
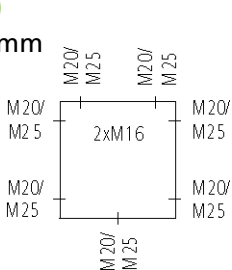
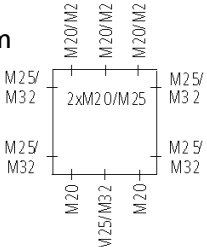
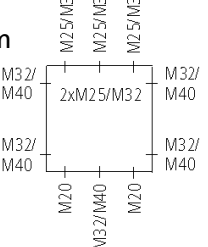
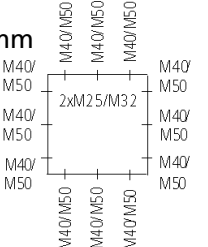
- Installations in unprotected exterior areas
- Extreme demands for industrial applications



- 1.5 - 240 mm²
- Non-flammable
- Impact and breakage resistant
- Available in black
- Material: glass-fibre-reinforced polycarbonate

Abox Drawings

Note: Pdf files can be downloaded from web site.

Abox 025 / Abox 025 AB 80 x 80 x 52 mm 	Abox 040 93 x 93 x 55 mm 	Abox 060 110 x 110 x 67 mm 
Abox 100 140 x 140 x 79 mm 	Abox 160 180 x 180 x 91 mm 	Abox 350 250 x 250 x 115 mm 
Abox 700 300 x 450 x 132 mm 	Abox HA 250 250 x 250 x 115 mm 	Abox HA 350 250 x 250 x 115 mm 
Abox-i 025 80 x 80 x 52 mm 	Abox-i 040 93 x 93 x 55 mm 	Abox-i 060 110 x 110 x 67 mm 
Abox-i 100 140 x 140 x 79 mm 	Abox-i 160 180 x 180 x 91 mm 	Abox-i 350 250 x 250 x 115 mm 



Type

Abox Terminals



Description

Screw terminal according to DIN EN 60998 / VDE 0613, $U_i = 690$ V

For

Dimensions

Abox 025 / 040	5 pole 2.5/4 mm ²	47 x 69 x 1.25 mm
Abox 060	5 pole 6 mm ²	99 x 69 x 1.25 mm
Abox 100	5 pole 10 mm ²	148 x 69 x 1.25 mm
Abox 160	5 pole 16 mm ²	70 x 88 x 1.5 mm
Abox 350	5 pole 35 mm ²	86 x 107 x 1.5 mm
Abox 700	1 pole 70 mm ²	184 x 107 x 1.5 mm

Cat No.

Packaging Qty

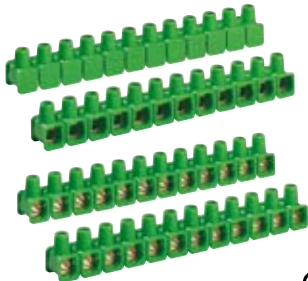
840 004 01	10
840 006 01	5
840 010 01	5
840 016 01	2
840 035 01	1
840 070 01	1

HandyClip - 2.5²

Clip together modular terminals according to DIN EN 60998 / VDE 0613, $U_i = 250$ V
Nominal cross section 2.5 mm², finger safe

VC 20	open both sides
VC 21	closed one side

686 020 01	100
686 021 01	100

HandyGrip - 2.5²

12 pole screw terminals
Nominal cross section 2.5 mm², $U_i = 400$ V

VC 20		Sorted by colour
VC 21	closed one side	Sorted by colour
VC 20 w		white
VC 21 w	closed one side	white

685 020 01	10
685 021 01	10
685 120 01	10
685 121 01	10

Lead Seal Set



Lead seal set for
Abox 025 to 100 junction boxes,
(including as standard from Abox 160)

890 010 01	10
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Type

IP 68 Cable Glands



Description

IP68 cable glands complete with locknuts and integral strain relief

Thread range	Thread length	Sealing
M12	8.0 mm	2 - 6.5 mm
M16	8.0 mm	4 - 10 mm
M20	9.0 mm	6 - 12 mm
M20	9.0 mm	7 - 14 mm
M25	11.0 mm	7 - 16 mm
M32	11.0 mm	11 - 21 mm
M40	11.0 mm	16 - 28 mm
M50	13.0 mm	21 - 34.5 mm
M63	17.0 mm	32 - 44.5 mm

Cat No.

Packaging Qty

227 412 01	100
227 416 01	75
227 420 01	50
227 421 01	30
227 425 01	25
227 432 01	10
227 440 01	5
227 450 01	5
227 463 01	5

IP 66 Double Membrane Seal



Double membrane seal IP 66 with closed membrane, thermoplastic elastomer

Insert	For wall thickness	Sealing Range
M16	1.5 - 4.5 mm	5 - 9 mm
M20	1.5 - 4.5 mm	7 - 12 mm
M25	1.5 - 4.5 mm	9 - 16 mm
M32	1.5 - 4.5 mm	14 - 21 mm

260 416 01	600 / 50
260 420 01	600 / 50
260 425 01	600 / 50
260 432 01	300 / 25

Mounting Rails NS 35



35 mm mounting rail according to EN 60715 including fixing screws, for

	Length
Abox 060	81 mm
Abox 100	106 mm
Abox 160	144 mm
Abox 350	216 mm
Abox 700 (with plastic bearer)	216 mm

198 081 01	1
198 106 01	1
894 016 01	1
894 035 01	1
795 030 01	1

Mounting Plates



Mounting plate from insulating material for installing devices with base fixing, including fixing screws, for

Abox 060	83 x 83 mm
Abox 100	109 x 109 mm
Abox 160	149 x 149 mm
Abox 350	217 x 217 mm
Abox 700	390 x 240 mm

895 006 01	1
895 010 01	1
895 016 01	1
895 035 01	1
795 003 01	1