



CATALOGUE

2007-2008

PRODUCTS AND SYSTEMS
FOR ELECTRICAL INSTALLATIONS
AND INFORMATION NETWORKS

 **legrand**[®]



Industrial enclosures and equipment

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Marina cabinets and enclosures

- cabinets (p. 273)
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New in 2007

Heat regulation:

- ventilators (p. 286)
- exchangers (p. 288)
- air-conditioners (p. 288)

Flexible conduits

- polyamide (p. 300)
- PVC and metalloplastic (p. 304)

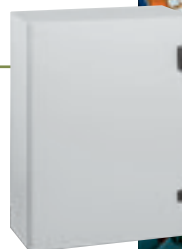


The right material for your environment

For each ambient environment, Legrand has the right enclosure for you,
made of the appropriate material

POLYESTER COATED STEEL

Steel is suitable for commercial and industrial premises that have no special requirements, and no excessive corrosion



■ Industrial environments, service areas, public buildings: Atlantic cabinet (p. 268)

STAINLESS STEEL

Stainless steel is suitable for the most demanding environments: depending on the types of corrosion encountered, Legrand offers two qualities of stainless steel, including 316 L stainless steel, which is recommended for very harsh environments (salting, offshore, etc.)



■ Laboratories, food processing industry, special hygiene requirements: stainless steel Atlantic cabinets (p. 273)

GLASS REINFORCED POLYESTER RESIN

For corrosive environments:
fibreglass reinforced polyester resin



■ Coast, petrochemicals, very harsh environments: Marina cabinets and enclosures (p. 274 to 276)

cabinets and enclosures: the right material for your environment

■ Polyester coated steel: Atlantic

For industrial environments that have no special requirements, and no excessive corrosion
IP 55 according to standard IEC EN 60529
Hinges and pins of cabinets with high performance anti-corrosion treatment

Resistance of the coating according to tests

Mechanical characteristics:

- Adhesion (grid and adhesive tape) EN ISO 2409: class 0 to 1
- Persoz hardness EN ISO 1522: 320"
- Bending on cylindrical mandrel EN ISO 1519: 6 mm, no cracks
- Erichsen stamping EN ISO 1520: 8 mm
- Impact strength EN ISO 6272: 1 kg - 50 cm

Climatic conditions:

- NSS salt spray test according to ISO 9227, Ka test according to EN 60068-2-11: 1000 h
- Sulphur dioxide SO₂: 500 h
- Heat 100°C for 168 h: very good maintenance of sheen
- Heat 150°C for 3 h: very good maintenance of sheen
- Cold: - 40°C

Coating process

Main steps in the process:

- Phosphate coating: the coat of iron phosphate encourages bonding of the coating
- Neutralisation
- Passivation
- Neutralisation
- Application of a 60 µm thick coating of pure polyester by electrostatic dusting

■ Stainless steel: Atlantic

For very harsh environments
IP 66 allowing jet washing, amongst other things

	304 L (catalogue standard) as a %	316 L (on request) as a %
Carbon	< 0.03	< 0.03
Chromium	18 to 19	16.5 to 18
Nickel	9 to 11	10 to 12
Molybdenum	-	2 to 2.25

Surface condition (brushing)

Polygrain 180 according to EN ISO 4287

- Ra between 0.25 and 0.35 µm
- Rt between 2.5 and 4 µm

Corrosion resistance

	304 L	316 L
To salt spray	1000 h	2000 h
To sulphur dioxide (SO ₂)	1000 h	1000 h

304 L, resistant to chemical agents:

- Nitric acid up to 52% at all temperatures and 98% cold
- Diluted organic acids cold
- Alkaline solutions (except hot and above 50%)
- Saline solutions other than chlorides, sulphurs and sulphates
- Fresh water and natural atmosphere with low chloride content
- Foodstuffs (except mustard and white wine)

316 L (on request), resistant to chemical agents:

- Phosphoric acid, all concentrations up to 40°C
- Sulphuric acids below 10% and above 80% at 20°C
- Sulphonic mixtures up to 70°C
- Sulphur solutions and vapours, even boiling
- Saline solutions except for chlorides
- Alkaline solutions, all concentrations below 100°C
- Fresh water and natural atmospheres including marine environments
- Organic, food and pharmaceutical products

Physical properties

- Specific gravity - density: 8
- Coefficient of expansion: 16 µm/°C
- Specific heat: 500 J/kg°C
- Electrical resistivity: 0.75 µΩ mm²
- Temperature: - 65°C to + 100°C in continuous duty and + 125°C peak
- Thermal conductivity: 15 W/m°C
- Only the low carbon content (< 0.03%) of 304 L and 316 L stainless steels can provide excellent resistance to intergranular corrosion

■ Legrand solutions 100% compatible: EMC

Under normal conditions of use Legrand metal enclosures and cabinets provide EMC attenuation of 20 dB: the electrical and electronic components are protected against the damaging effects of electromagnetic fields

■ Limitation of radiated interference



Designed for a standard environment, Legrand enclosures provide a 20 dB shielding level: the interfering signal will be 10 times less



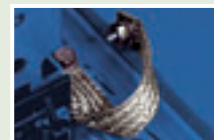
For an environment subject to interference, 40 dB shielding provided on request: interfering signal is 100 times less, doors seals copper/beryllium on standard steel, metallised polyamide elastomer seal on stainless steel

Name according to country

		304 L	316 L
France	AFNOR ⁽¹⁾	Z3 CN 18-10	Z3 CND 17-11-02
	NF EN	X 2 CNI 19-11	X 2 CNI Mo 17-12-2
Germany	DIN	X 2 CNI 19-11 (W.Nr 1-4 306)	X 2 CNI Mo 17-13-2 (W.Nr 1-4 404)
USA	AISI	304 L	316 L

(1) According to standard EN 10088-2

■ Increased equipotentiality



Accessories ensuring perfect electrical continuity for equipment that all has the same reference potential

■ Fibreglass reinforced polyester resin: Marina

- IP 66 according to standard IEC EN 60529
- Hot polymerised resin
- Self-extinguishing at 960°C according to IEC EN 60695-2-11
- Excellent UV resistance
- Excellent resistance to corrosion and to salt spray
- Good scratch resistance
- Good resistance to petrol, oil and grease
- Temperature: - 40°C to + 85°C in continuous duty, + 100°C peak
- Stainless steel hinges and pins

After degreasing and application of a bonding primer, the polyester resin enclosures can be painted with a polyurethane paint (apart from non-stick cabinets)

■ Selection guide:

• • • Excellent • • Very good • Good

		Materials	Atlantic		Marina
		Coated steel	304 L st. steel	316 L st. steel	Polyester
Environment	Indoor	Dry	• • •	• • •	• • •
		Damp	• • •	• • •	• • •
		Damp + harsh	•	• •	• •
	Outdoor	Rural	• • •	• • •	• • •
		Urban	• •	• • •	• • •
		Industrial	• •	• • •	• • •
		Tropical	(1)	• • •	• •
	Climates	Marine	• •	• • •	• • •
		Cold	• •	• • •	• •
		Very cold	• • •	• • •	•
		Temperate	• • •	• • •	• • •
		Hot and dry	• • •	• • •	• • •
		Equatorial	• • •	• • •	• • •

(1) Provide special treatment on request

Atlantic boxes, the answer for use in harsh environments

2 finishes available

- Metal RAL 7032 (corrosion resistant and UV resistant paint finish)
- Stainless steel

- Metal RAL 7032 boxes supplied with 2 drilled vertical uprights for fixing rails and plain plates
- Stainless steel boxes supplied with pins for fixing rails and plain plates



IP 66: gutter and cover joint provide a totally weatherproof seal

Captive screws for closing cover

> Equipment fixing

- Symmetrical rails
- Galvanized steel plain plates



> Accessories

- Stainless steel wall mounting lugs for horizontal or vertical installation of box
- Zamak hinges for cover (for metal and stainless steel boxes)

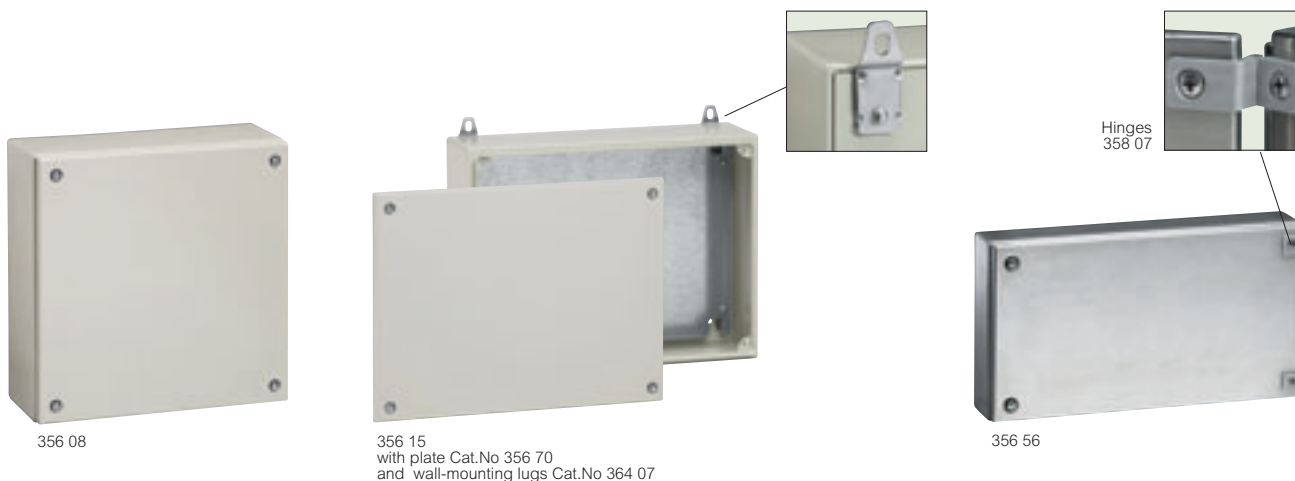


Industrial boxes also available in plastic version

> see p. 264

Atlantic industrial metal boxes

IP 66 - IK 10 - Nema 4



Technical characteristics (p. 262)

IP 66 according to standards IEC EN 60529
IK 10 according to standards IEC EN 62262

Nema 4

Reversible boxes, 2 fixing methods:

- Direct fixing

- Fixing via stainless steel lugs Cat.No 364 07

Captive screws

Solid galvanized steel plates

Anti-corrosion paint finish

Pack	Cat.Nos	Metal RAL 7032
		Supplied with 2 drilled vertical uprights (3 uprights for width 800 mm) for fixing rails and plain plates Textured paint finish RAL 7032
		Square version
		Height x Width x Depth (mm)
1	356 00	150 x 150 x 80
1	356 03	200 x 200 x 80
1	356 04	200 x 200 x 120
1	356 08	300 x 300 x 120
1	356 12	400 x 400 x 120
		Rectangular version
1	356 02	150 x 200 x 80
1	356 05	150 x 300 x 120
1	356 07	200 x 300 x 120
1	356 10	200 x 400 x 120
1	356 14	200 x 500 x 120
1	356 15	300 x 500 x 120
1	356 17	200 x 600 x 120
1	356 18	300 x 600 x 120
1	356 19	400 x 600 x 120
1	356 22	400 x 800 x 120

Pack	Cat.Nos	304 L stainless steel
		Stainless steel screws Supplied with pins for fixing rails and plain plates
		Square version
		Height x Width x Depth (mm)
1	356 50	150 x 150 x 80
1	356 53	200 x 200 x 120
		Rectangular version
1	356 56	200 x 400 x 120
		Other dimensions, version 316 L, Please contact us

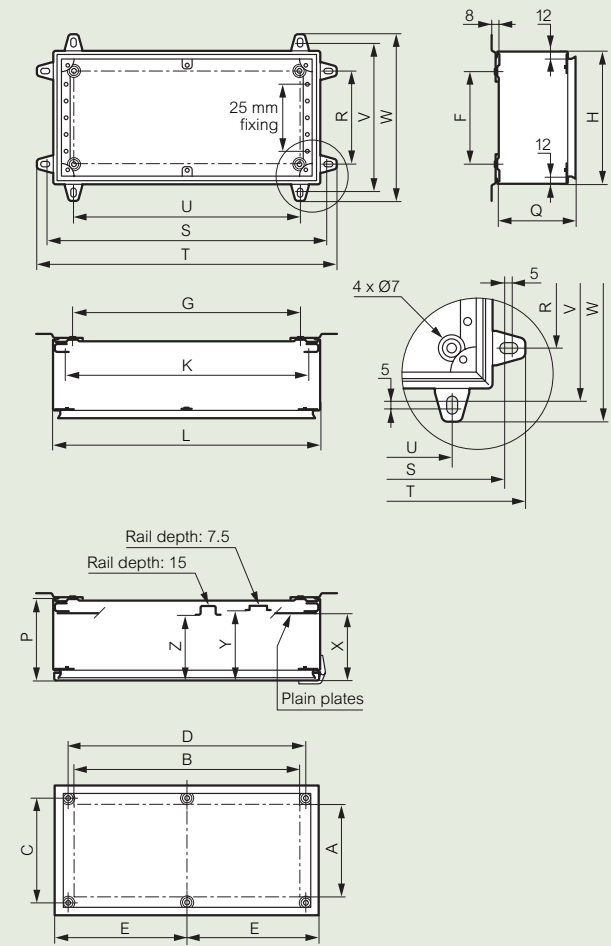
Pack	Cat.Nos	Accessories
1	358 07	Hinges Set of 2 hinges moulded zamak, nickel-coated IP 66 maintained
		Galvanized steel
		Height x Width of box (mm):
1	356 60	150 x 150
1	356 62	200 x 200
1	356 65	300 x 300
1	356 68	400 x 400
1	356 61	150 x 200
1	356 63	150 x 300
1	356 64	200 x 300
1	356 66	200 x 400
1	356 69	200 x 500
1	356 70	300 x 500
1	356 71	200 x 600
1	356 72	300 x 600
1	356 73	400 x 600
1	356 75	400 x 800
		Symmetrical rails
		Zinc steel
		Box width (mm) Rail dimensions (mm) Rail depth (mm)
5	367 90	150 130 7.5
5	367 91	200 180 7.5
5	367 92	300 280 7.5
5	367 93	400 380 7.5
5	367 94	500 480 15
5	367 95	600 580 15
5	367 96	800 780 15
1	364 07	Wall-mounting lugs Set of 4 stainless steel lugs for horizontal or vertical installation on box

RAL 7032 boxes:
Other dimensions, grid plates

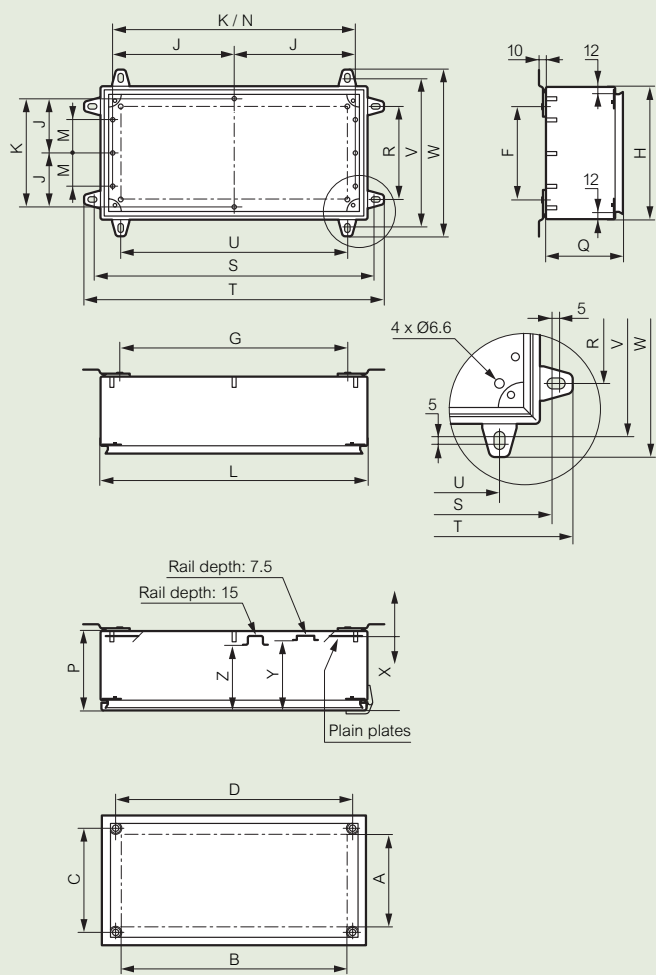
please consult us

Atlantic industrial metal boxes

■ Dimensions
RAL 7032 metal boxes



304 L stainless steel boxes

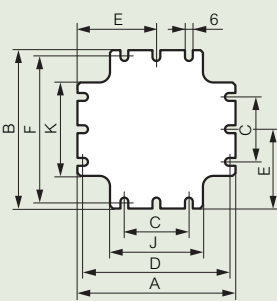


Slot for pins

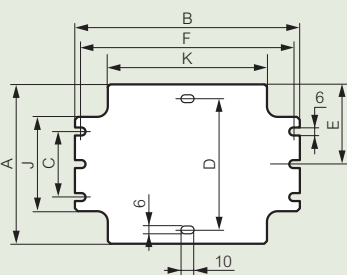
Cat.No 356 50 Cat.No 356 53 Cat.No 356 56



■ Plain plates
Square



Rectangular



Cat.Nos	Boxes dimensions H x W (mm)	A	B	C	D	E	F	J	K
356 60	150 x 150	122	122	-	112	61	112	72	72
356 62	200 x 200	172	172	100	162	86	162	122	122
356 65	300 x 300	272	272	150	262	136	262	222	222
356 68	400 x 400	372	372	300	362	-	362	322	322

Cat.Nos	Boxes dimensions H x W (mm)	A	B	C	D	E	F	J	K
356 61	150 x 200	122	172	-	-	61	162	72	122
356 63	150 x 300	122	272	-	-	61	262	72	222
356 64	200 x 300	172	272	100	-	86	262	122	222
356 66	200 x 400	172	372	100	-	86	362	122	322
356 69	200 x 500	172	472	100	-	-	462	122	422
356 70	300 x 500	272	472	200	-	-	462	222	422
356 71	200 x 600	172	572	100	-	-	562	122	522
356 72	300 x 600	272	572	200	-	-	562	222	522
356 73	400 x 600	372	572	300	-	-	562	322	522
356 75	400 x 800	372	772	300	350	-	762	322	722

	Boxes dimensions (mm)			Useful surface and cover fixing (mm)						Wall mounting (mm)		Equipment (mm)						Dimensions with wall-mounting lugs (mm)						
Cat.Nos	Height	Width	Depth	Q	A	B	C	D	E	F	G	J	K	M	N	X	Y	Z	R	S	T	U	V	W
356 00	150	150	80	76	88	88	107	107	-	90	90	-	114	-	-	61	55	47.5	90	170	200	90	170	200
356 02	150	200	80	76	88	138	107	157	-	90	140	-	164	-	-	61	55	47.5	90	220	250	140	170	200
356 05	150	300	120	116	88	238	107	257	-	90	240	-	264	-	-	101	95	87.5	90	320	350	240	170	200
356 03	200	200	80	76	138	138	157	157	-	140	140	-	164	-	-	61	55	47.5	140	220	250	140	220	250
356 04	200	200	120	116	138	138	157	157	-	140	140	-	164	-	-	101	95	87.5	140	220	250	140	220	250
356 07	200	300	120	116	138	238	157	257	-	140	240	-	264	-	-	101	95	87.5	140	320	350	240	220	250
356 10	200	400	120	116	138	338	157	357	-	140	340	-	364	-	-	101	95	87.5	140	420	450	340	220	250
356 14	200	500	120	116	138	438	157	457	-	140	440	-	464	-	-	101	95	87.5	140	520	550	440	220	250
356 08	300	300	120	116	238	238	257	257	-	240	240	-	264	-	-	101	95	87.5	240	320	350	240	320	350
356 15	300	500	120	116	238	438	257	457	-	240	440	-	464	-	-	101	95	87.5	240	520	550	440	320	350
356 12	400	400	120	116	338	338	357	357	-	340	340	-	364	-	-	101	95	87.5	340	420	450	340	420	450
356 17	200	600	120	116	138	538	157	-	278.5	140	540	-	564	-	-	101	95	87.5	140	620	650	540	220	250
356 18	300	600	120	116	238	538	257	-	278.5	240	540	-	564	-	-	101	95	87.5	240	620	650	540	320	350
356 19	400	600	120	116	338	538	357	-	278.5	340	540	-	564	-	-	101	95	87.5	340	620	650	540	420	450
356 22	400	800	120	116	338	738	357	-	378.5	340	740	-	764	-	-	101	95	87.5	340	820	850	740	420	450
356 50 ⁽¹⁾	150	150	80	76	88	88	107	107	-	90	90	57	114	-	-	70	64	56.5	90	170	200	90	170	200
356 53 ⁽²⁾	200	200	120	116	138	138	157	157	-	140	140	-	-	50	164	110	104	96.5	140	220	250	140	220	250
356 56 ⁽²⁾	200	400	120	116	138	338	157	357	-	140	340	-	-	50	364	110	104	96.5	140	420	450	340	220	250

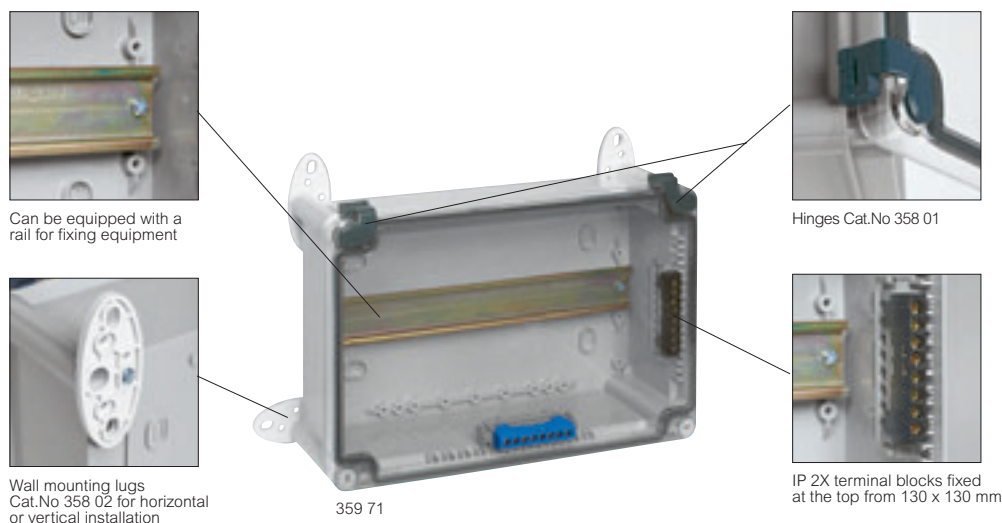
(1) 4 pins
(2) 6 pins



The right material
for your environment

see p. 258-259

plastic industrial boxes



Smooth surfaces

Choice of fixing:

- Internal: 4 oblong holes at back of box
- At the 4 corners outside the wiring space, with Ø4 screws
- Using wall mounting lugs Cat.No 358 02 (except boxes 130 x 75 x 74 mm)

Class II provided by protective caps for the fixing screws (supplied)

Equipment can be fixed on rail or solid plate. IP 2X terminal blocks fixed at the top from 130 x 130 mm size (p. 232)

Cover opened/closed with 1/4 turn of a flat screwdriver. Indication of closed/open position: I/O

Captive covers with ties, except boxes 310 x 240 mm and 360 x 270 mm. Adaptable hinges on all models from 130 x 130 mm size

Pack	Cat.Nos		IP 55 - IK 07 grey RAL 7035
	Opaque cover	Transparent cover	Internal dimensions Height x Width x Depth (mm)
5/50	921 28		80 x 80 x 45
5/50	921 38		105 x 105 x 55
1	359 00		130 x 75 x 74
1	359 30		130 x 130 x 74
1	359 40		135 x 110 x 74
1	359 50		180 x 140 x 86
1	359 60	359 61	220 x 170 x 86
1	359 70	359 71	270 x 170 x 86
1	359 80		310 x 240 x 124

Pack	Cat.Nos	IP 55 - grey RAL 7035 - huge depth
	Opaque cover	Box depth 140 mm
2	921 22	IK 07 220 x 170 x 240 mm with 4 locks
		Box depth 154 mm
1	350 58	IK 08 359 x 265 x 154 mm with hinges and 2 locks
		Box depth 160 mm
1	922 84	IK 08 310 x 240 x 160 mm with 4 locks

Nylbloc auto (see p. 764)

Accessoires		
		Hinges
		RAL 7016
1	358 00	Set of 2 for boxes from 130 x 130 to 270 x 170 mm
1	358 01	Set of 2 for 310 x 240 mm boxes
		Metal mounting plates
		Galvanized steel
		15/10 thick for boxes:
5	358 10	130 x 130 mm
5	358 11	155 x 110 mm
5	358 12	180 x 140 mm
5	358 13	220 x 170 mm
5	358 14	270 x 170 mm
5	358 15	310 x 240 mm
		Wall mounting lugs
1	358 02	Set of 4 for boxes from width 110 mm



IP 66 - IK 08 plastic industrial boxes

Please consult us

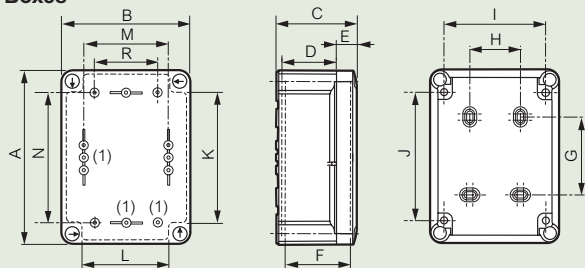
plastic industrial boxes

■ Characteristics - IP 55 - IK 07 boxes

Box: - IP 55: polypropylene
 Cover: - opaque: polypropylene (except 359 80: polycarbonate)
 - transparent: polycarbonate
 Operating temperature: - 25 °C to + 40 °C
 Self-extinguishing: 750 °C (EN 60695-2-11)

■ Dimensions

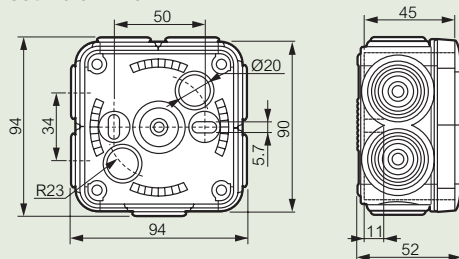
Boxes



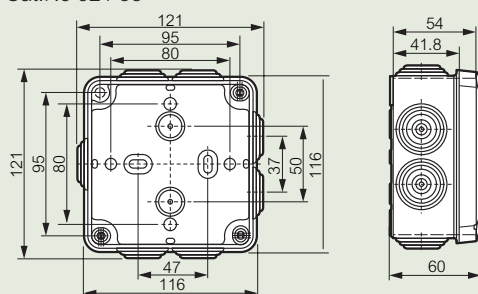
(1) Fixing for accessories (rail, mounting plates)

Cat.Nos	Dimensions (mm)						Box fixing (mm)				Accessories fixing (Ø4 mm screw supplied)							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R			
359 00	140	85	81	56	18	67	70	-	65	120	-	-	51	106	-			
359 30	150	150	81	56	18	67	54	70	120	103	102	87	106	106	84			
359 40	175	130	81	56	18	67	79	50	100	128	112	88	86	131	64			
359 50	200	160	94	69	18	80	104	50	130	153	137	112	116	156	94			
359 60/61	240	190	94	69	18	80	144	80	160	193	175	142	146	196	124			
359 70/71	290	190	94	69	18	80	194	80	160	243	226	142	146	246	122			
359 80	332	262	132	97	27	116	220	160	222	276	248	198	200	260	150			

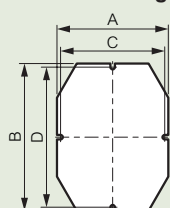
Cat.No 921 28



Cat.No 921 38



Metal mounting plates



Cat.Nos	A	B	C	D
358 10	114	114	106	106
358 11	94	139	86	131
358 12	124	164	116	156
358 13	154	204	146	196
358 14	154	254	146	246
358 15	211	271	200	260

Maximum length of terminals

Box dimensions (mm)	Number of holes
130 x 130 x 74	8
155 x 110 x 74	13
180 x 140 x 86	13
220 x 170 x 86	22
310 x 240 x 124	28

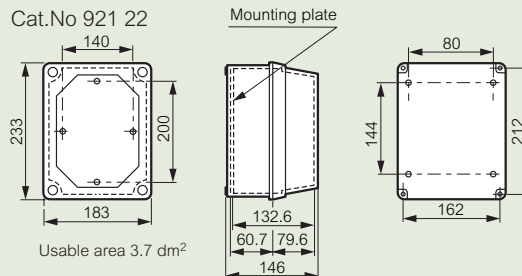
■ Characteristics - IP 55 - huge depth boxes

Operating temperature: - 20 °C to + 50 °C
 Self-extinguishing: 750 °C (EN 60695-2-11)

■ Dimensions

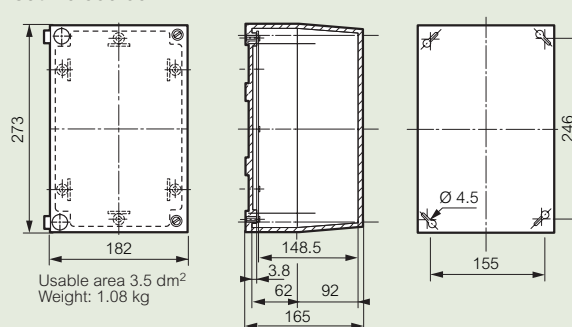
Boxes

Cat.No 921 22



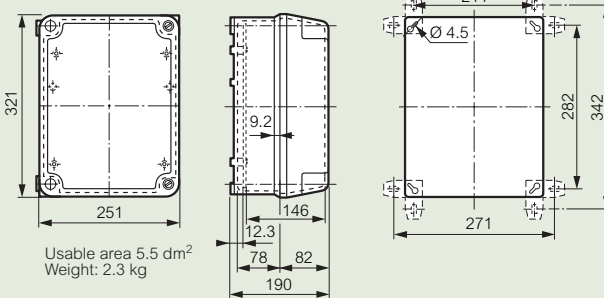
Usable area 3.7 dm²

Cat.No 350 58



Usable area 3.5 dm²
 Weight: 1.08 kg

Cat.No 922 84



Usable area 5.5 dm²
 Weight: 2.3 kg

267

Red catalogue numbers: New products

Atlantic metal cabinets

IP 55 - IK 10 - Nema 4x - Nema 12

RAL 7035



355 07



355 23



364 01



367 35 + rail 367 82 (p. 281)



355 37



Dimensions (p. 271) and material characteristics (p. 258)
Equipment (p. 269 and 280 to 282)

IP 55 according to standards IEC EN 60529

IK 10 according to standards IEC EN 62262

Nema 4x, 1 door, Nema 12, 2 doors - UL, CSA, Bureau Veritas, TÜV, GÖST agreements

Excellent resistance to corrosion and chemical agents

60 µ thick textured polyester coating

Anti-corrosion treatment for hinges and axis

Reversible door - One locking point

Locking with key 2433 A (2 keys supplied)

Up to 300 mm height, fitted with latch for height upper than 300 mm, fitted with lever

Low cable entries RAL 7035

Metal cabinets

Pack	Cat.Nos	Vertical version	Number of doors	Weight (kg)
		External dimensions (mm) Height x Width x Depth		
1	355 09	400 x 300 x 150 ⁽²⁾	1	6.3
1	355 00	300 x 200 x 160 ⁽¹⁾⁽²⁾	1	4.2
1	355 02	400 x 300 x 200	1	6.5
1	355 03	500 x 400 x 200	1	9.7
1	355 04	600 x 400 x 200	1	10.7
1	355 07	500 x 400 x 250	1	10.7
1	355 08	600 x 400 x 250	1	12
1	355 12	700 x 500 x 250	1	16.5
1	355 14	800 x 600 x 250	1	18.8
1	355 17	1000 x 600 x 250	1	24
1	355 18	1000 x 800 x 250	1	36.4
1	355 22	700 x 500 x 300	1	23
1	355 23	800 x 600 x 300	1	28.8
1	355 26	1000 x 600 x 300	1	33.3
1	355 27	1000 x 800 x 300	1	42
1	355 92	1200 x 800 x 300	1	49.6
1	355 93	1200 x 1000 x 300	2	62.2
1	355 95	1400 x 1000 x 300	2	71
1	355 28	800 x 600 x 400	1	31
1	355 29	1000 x 800 x 400	1	45
1	355 96	1200 x 800 x 400	1	57
1	355 98	1400 x 800 x 400	1	64
		Square version	Number of doors	Weight (kg)
		External dimensions (mm) Height x Width x Depth		
1	355 05	300 x 300 x 150 ⁽²⁾	1	4.1
1	355 30	300 x 300 x 200	1	4.2
1	355 31	400 x 400 x 200	1	7.7
1	355 32	500 x 500 x 250	1	11.5
1	355 10	600 x 600 x 250	1	16.3
1	355 15	800 x 800 x 250	1	21.6
1	355 20	600 x 600 x 300	1	21.1
1	355 24	800 x 800 x 300	1	34.2
1	355 91	1000 x 1000 x 300	2	53
1	355 94	1200 x 1200 x 300	2	70
1	355 36	600 x 600 x 400	1	28
1	355 97	1200 x 1200 x 400	2	77

Metal cabinets (continued)

Pack	Cat.Nos	Horizontal version	Number of doors	Weight (kg)
		External dimensions (mm) Height x Width x Depth		
1	355 01	300 x 400 x 200	1	6.5
1	355 06	400 x 600 x 250	1	11.7
1	355 33	800 x 1000 x 250 ⁽²⁾	1	27
1	355 21	600 x 800 x 300	1	28.8
1	355 37	600 x 1000 x 300	1	32
1	355 34	800 x 1000 x 300	1	33.3
1	355 90	1000 x 1200 x 300	1	62.2

Accessories

1	367 45	Set of 4 slides for depth adjustment For 400 mm depth cabinets
1	364 01	Wall-mounting lugs For load up to 300 kg Horizontal or vertical installation With a roof, horizontal installation only Zamak RAL 7035 Supplied with cover finish Set of 4
1	364 04	Attachment lugs for rail For load up to 100 kg Horizontal or vertical installation Anti-corrosion steel treatment
5	367 35	Attachment lugs for rail Supplied with M6 screws Set of 2 Used to attach the 15 mm depth symmetric rail on door profile strand-holder

(1) Supplied with plain plate
(2) Without cable entries



Plinths: consult us

Atlantic metal cabinets equipment



Technical characteristics (p. 272)

Pack	Cat.Nos	Cabstop open-work plate IP 55			
		Cable entries consisting of a cable clamp providing the mechanical grip, and elastomer areas for weatherproofing Can be pierced using the cable (no tool required) Fits the cable perfectly Replacement of a cable possible Fire retardant polypropylene RAL 7035 2 possibilities of mounting: - direct on cable entry of Atlantic cabinets - on flat surface with kit Cat.No 364 98 Supplied with: - locking caps for sealing a pierced entry providing IP 55 protection - cable release tool			
		Number of entries Ø5 to 14	Number of entries Ø14 to 24	Number of spare entries	Direct mounting on cable entry of Atlantic cabinet width (mm)
1	364 94	13	1	-	300
1	364 95	13	1	1	400
1	364 96	28	2	1	500-1000
1	364 97	28	2	2	600-800-1200
1	364 98	Kit for mounting Cabstop plate on flat surface Enables mounting of 2 Cabstop plates: Cat.Nos 364 94 or 95 and 364 96 or 97 IP 55 maintained			

		NEW	Cable entries for Atlantic cabinets 600 or 800 mm width
1	329 46		IP 43 cable entry plate with brush
1	329 47		IP 55 multi-entry cable entry plate with cable glands Supplied with 12 ISO 32 cable glands Cat.No 980 50 The cable glands take 4 UTP/FTP/SFTP cables (Ø6.5 to 9.5 mm) per cable gland Cords with connectors can be fed through without having to dismantle the cable gland Supplied with blanking plates for unused entries

Pack	Cat.Nos	Protective conductor		
		Earth braid		
		Capacity (mm ²)	Fixing spacing (mm)	Ø of holes (mm)
20	347 95	6	200	8.5
20	347 96	16	200	8.5
10	347 97	30	200	8.5
		Green/yellow wire		
20	363 95	6	200	6.5

1	365 97	NEW	Paint touch-up
			Aerosol paint spray
1	365 97		RAL 7035
			Touch-up brush
			For protecting the sheet metal after cutting
			Anti-corrosion paint
1	365 91		RAL 7035
			Other colours on request

10	395 99	Temporary marking Water-soluble marker pen
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Atlantic metal cabinets

IP 55 - IK 10 - adjusted characteristics



386 06



386 21



Material characteristics (p. 258)

IP 55 - IK 10 according to IEC EN 60529

Opening one way

With galvanized plain mounting plate

Supplied with one double bar lock up to 500 x 500 x 250 mm and 2 double bar lock from 600 x 400 x 150 mm

Without cable entries plate

Plain plates on top and bottom

Easy mounting of the plate mounting plain beige RAL 7035

60 µ thick textured polyester coating

Pack	Cat.Nos	Metal cabinets			
		Dimensions (mm) Height x Width x Depth	Weight (kg)	Number of closing point	
1	386 00	300 x 200 x 160	4.5	1	
1	386 04	400 x 300 x 150	9.2	1	
1	386 05	400 x 300 x 200	10.3	1	
1	386 06	400 x 400 x 200	16.5	1	
1	386 09	500 x 400 x 200	16.4	1	
1	386 12	600 x 400 x 150	17.2	1	
1	386 13	600 x 400 x 200	18.2	2	
1	386 14	600 x 400 x 250	19.1	2	
1	386 15	600 x 500 x 150	18	2	
1	386 16	600 x 500 x 200	19	2	
1	386 21	700 x 500 x 250	25	2	
1	386 22	800 x 600 x 200	27	2	
1	386 23	800 x 600 x 250	33	2	
1	386 24	800 x 600 x 300	37.6	2	
1	386 28	1000 x 800 x 250	58.9	2	
1	386 29	1000 x 800 x 300	60.7	2	
1	386 30	1200 x 800 x 300	77	2	

Wall-mounting lugs

1	364 01	For load up to 300 kg Horizontal or vertical installation With a roof, horizontal installation only Zamak RAL 7035 Supplied with cover finish Set of 4
1	364 04	For load up to 100 kg Horizontal or vertical installation Anti-corrosion steel treatment



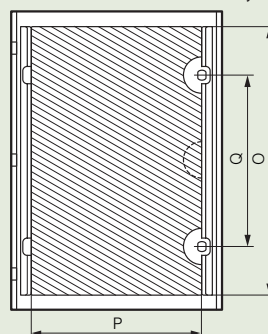
Time switches

see p. 345

Atlantic metal cabinets

IP 55 - IK 10 - adjusted characteristics

Doors: dimensions, usable area

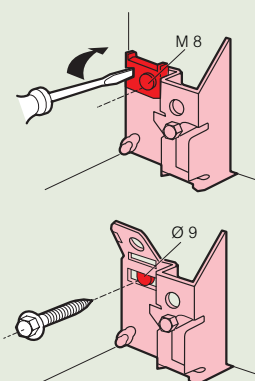
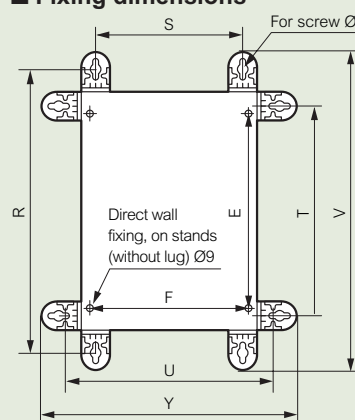


Enclosures H x W (mm)	Door usable space Height O (mm)	Width P (mm)	Area (dm ²)	Locking position Q (mm)
300 x 200	251	148	3.4	(1)
300 x 300	251	248	5.9	(1)
400 x 300	351	248	6.4	(1)
400 x 400	351	348	11.4	(1)
500 x 400	425	300	12.4	(1)
500 x 500	425	400	16.7	(1)
600 x 400	525	300	19.1	350(2)
600 x 500	525	400	21.1	400(2)
600 x 600	525	500	25.6	350(2)
700 x 500	625	400	24.5	400(2)
800 x 600	725	500	35.8	500(2)
1200 x 800	1125	700	78.4	(1)

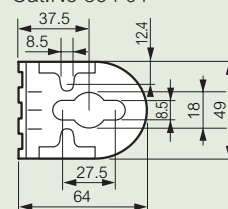
(1) Central lock

(2) Top and bottom lock

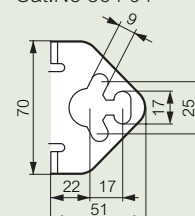
Fixing dimensions



Cat.No 364 01



Cat.No 364 04

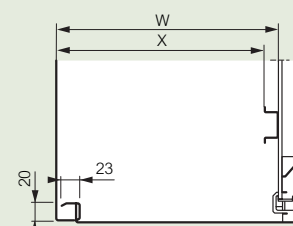


Cabinets		Vertical lugs		Mounting centres	Horizontal lugs		Mounting centres	Overall 364 01		Overall 364 04	
H (mm)	W (mm)	R (mm)	S ⁽¹⁾ (mm)	E (mm)	T ⁽¹⁾ (mm)	U (mm)	F (mm)	V (mm)	Y (mm)	V (mm)	Y (mm)
300	200	375	150	225	250	275	169	430	330	402	302
400	300	475	250	325	350	375	269	530	430	502	402
400	400	475	350	325	350	475	369	530	530	502	502
500	400	575	350	425	450	475	369	630	530	602	502
500	500	575	450	425	450	575	469	630	630	602	602
600	400	675	350	525	550	475	369	730	530	702	502
600	500	675	450	525	550	575	569	730	630	702	602
700	500	775	450	625	650	575	469	830	630	802	602
800	600	875	550	725	750	675	569	930	730	902	702
1000	800	1075	750	925	950	875	769	1130	930	1102	902
1200	800	1275	750	1125	1150	875	769	1330	930	1302	902

(1) Same fixing centres for Cat.Nos 364 01 and 364 04

Usable depth

Enclosures depth (mm)	Back of enclosures	
	W (mm)	X (mm)
150	130	115
160	140	125
200	180	165
250	230	215
300	280	265



Atlantic metal cabinets

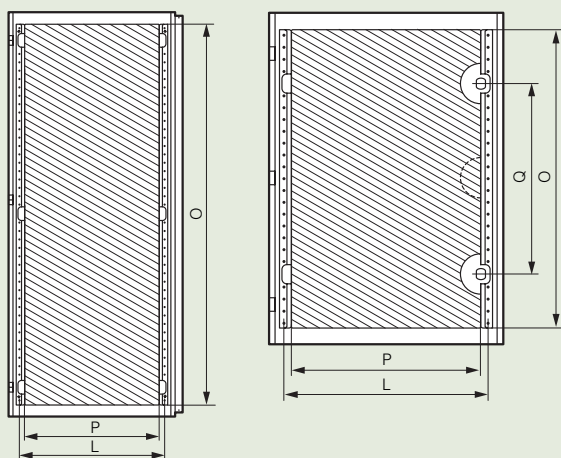
IP 55 - IK 10

Usable dimensions

Doors

2 doors

1 door



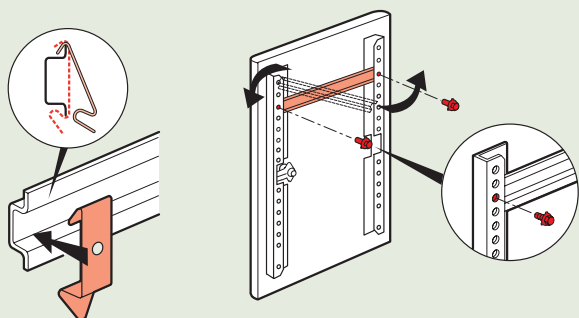
Cat.Nos	Cabinets		Door usable dimensions		Lock positions	Strand-holder fixing centres
	Height (mm)	Width (mm)	Height O (mm)	Width P (mm)	Q (mm)	L (mm)
355 00	300	200	251	148	(1)	(3)
355 05/30	300	300	251	248	(1)	(3)
355 01	300	400	251	348	(1)	(3)
355 02/09	400	300	351	248	(1)	(3)
355 31	400	400	351	348	(1)	(3)
355 06	400	600	325	500	(1)	530
355 03 / 07	500	400	425	300	(1)	330
355 32	500	500	425	400	(1)	430
355 04 / 08	600	400	525	300	350 ⁽²⁾	330
355 10 / 20 / 36	600	600	525	500	350 ⁽²⁾	530
355 21	600	800	525	300 x 2	(1)	330
355 37	600	1000	525	400 x 2	(1)	430
355 12 / 22	700	500	625	400	400 ⁽²⁾	430
355 14 / 23 / 28	800	600	725	500	500 ⁽²⁾	530
355 15 / 24	800	800	725	700	500 ⁽²⁾	730
355 33 / 34	800	1000	725	400 x 2	(1)	430
355 17 / 26	1000	600	925	500	(1)	530
355 18 / 27 / 29	1000	800	925	700	(1)	730
355 91	1000	1000	925	400 x 2	(1)	430
355 90	1000	1200	925	500 x 2	(1)	530
355 92 / 96	1200	800	1125	700	(1)	730
355 93	1200	1000	1125	400 x 2	(1)	430
355 94 / 97	1200	1200	1125	500 x 2	(1)	530
355 98	1400	800	1325	700	(1)	730
355 95	1400	1000	1325	400 x 2	(1)	430

(1) Central lock

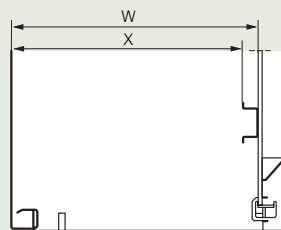
(2) Top and bottom lock

(3) Without strand-holder

Fixing on door of a symmetrical rail depth 15 mm with Cat.No 367 35



Usable depth

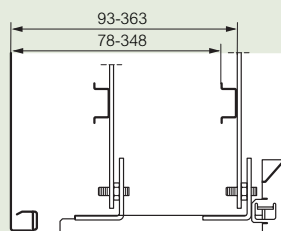


Cabinet Depth (mm)	Back of cabinet	
	W (mm)	X (mm)
150	130	115
160	140	125
200	180	165
250	230	215
300	280	265
400	380	365

Adjustment of equipment (optional) with slides

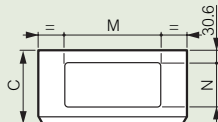
Cat.No 367 45

For 400 mm depth cabinets

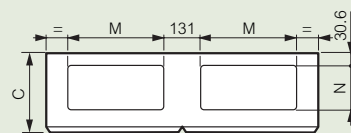


Cable entries

Cabinets width ≤ 800 mm



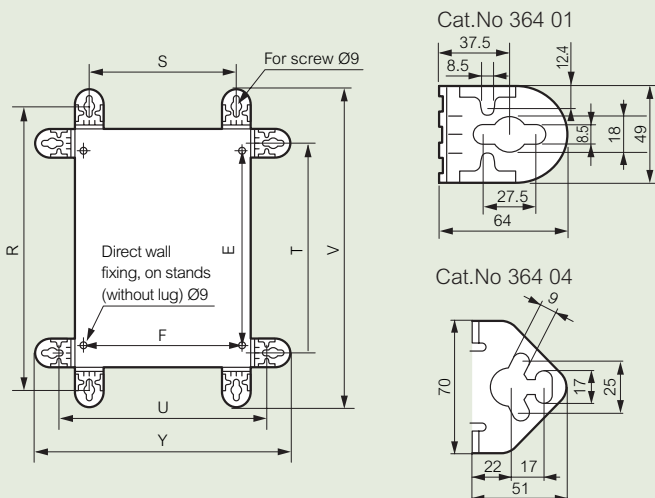
Cabinets width ≥ 1 000 mm



Cabinets (mm)			Dimensions of cable entries (mm)	
W	D	Overall depth C	M	N
200	160	170	-	-
300	150	160	-	-
300	200	210	169	115
400	200	210	269	115
400	250	260	269	115
500	250	260	369	150
500	300	310	369	150
600	250	260	469	150
600	300	310	469	150
600	400	410	469	150
800	250	260	469	150
800	300	310	469	150
800	400	410	469	150
1 000	250	260	369	150
1 000	300	310	369	150
1 200	300	310	469	150
1 200	400	410	469	150

Usable dimensions (continued)

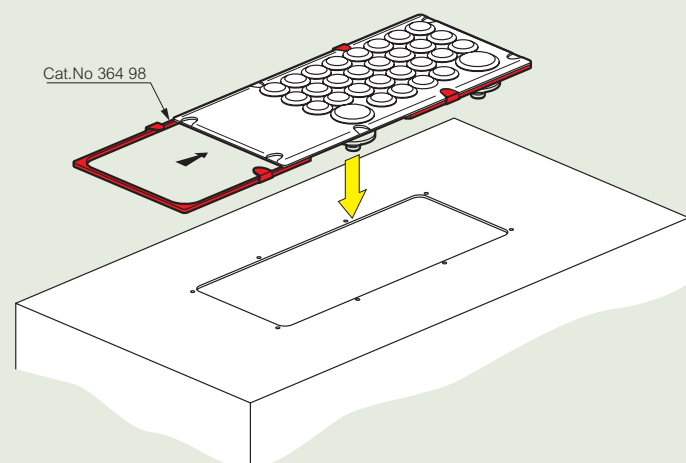
Fixing



Cabinets		Vertical lugs		Mounting centres	Horizontal lugs		Mounting centres	Overall 364 01		Overall 364 04	
H (mm)	W (mm)	R (mm)	S ⁽¹⁾ (mm)	E (mm)	T ⁽¹⁾ (mm)	U (mm)	F (mm)	V (mm)	Y (mm)	V (mm)	Y (mm)
300	200	375	150	225	250	275	169	430	330	402	302
300	300	375	250	225	250	375	269	430	430	402	402
300	400	375	350	225	250	475	369	430	530	402	502
400	300	475	250	325	350	375	269	530	430	502	402
400	400	475	350	325	350	475	369	530	530	502	502
400	600	475	550	325	350	675	569	530	730	502	702
500	400	575	350	425	450	475	369	630	530	602	502
500	500	575	450	425	450	575	469	630	630	602	602
600	400	675	350	525	550	475	369	730	530	702	502
600	600	675	550	525	550	675	569	730	730	702	702
600	800	675	750	525	550	875	769	730	930	702	902
600	1000	675	950	525	550	1075	969	730	1130	702	1102
700	500	775	450	625	650	575	469	830	630	802	602
800	600	875	550	725	750	675	569	930	730	902	702
800	800	875	750	725	750	875	769	930	930	902	902
800	1000	875	950	725	750	1075	969	930	1130	902	1102
1000	600	1075	550	925	950	675	569	1130	730	1102	702
1000	800	1075	750	925	950	875	769	1130	930	1102	902
1000	1000	1075	950	925	950	1075	969	1130	1130	1102	1102
1000	1200	1075	1150	925	950	1275	1169	1130	1330	1102	1302
1200	800	1275	750	1125	1150	875	769	1330	930	1302	902
1200	1000	1275	950	1125	1150	1075	969	1330	1130	1302	1102
1200	1200	1275	1150	1125	1150	1275	1169	1330	1330	1302	1302
1400	800	1475	750	1325	1350	875	769	1530	930	1502	902
1400	1000	1475	950	1325	1350	1075	969	1530	1130	1502	1102

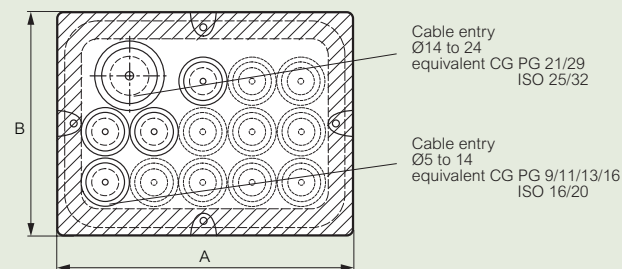
(1) Same mounting centres for Cat.Nos 364 01 and 364 04

Assembly kit on plane surface for Cabstop plate



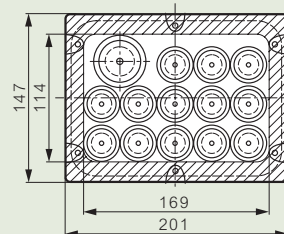
Cabstop plate

- Tensile resistance: 15 kg minimum
- Operating temperature: - 20 °C to + 65 °C
- ASTM No 3 resistance to cutting oil
- Resistance to incandescent wire: 750 °C according to IEC EN 60695-2-11

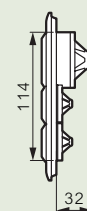


Dimensions

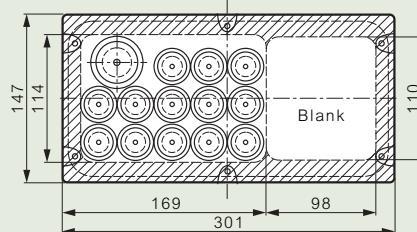
Cat.No 364 94



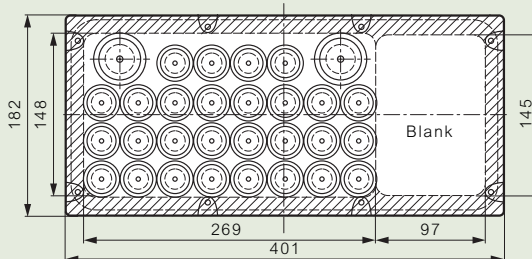
Side view
364 94/95



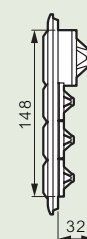
Cat.No 364 95



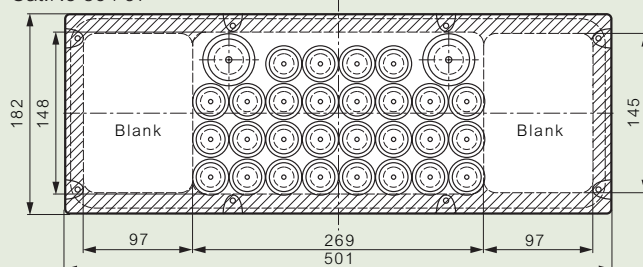
Cat.No 364 96



Side view
364 96/97



Cat.No 364 97



Atlantic stainless steel cabinets

IP 66 - IK 10 - Nema 4x



352 01

352 11



Material characteristics (p. 258)

IP 66 according to standard IEC 60529. LCIE No 380 584 AB
IK 10 according to IEC EN 62262

Nema 4x

Stainless steel 304L

Agreements: UL, CSA, Veritas, LRS, GÖST

For use in areas requiring high level of hygiene, such as:
• food manufacturing plants, industrial kitchens, distilleries
• dairies

Corrosive conditions such as:

- chemical industries, pharmaceutical industries
- petroleum industries

Brushed stainless steel finish

Curved door, with double bar locks

Protective flange

Reversible cabinet

Pack	Cat.Nos	Stainless steel cabinets				
		External dimensions (mm)			Weight (kg)	Gross volume (dm ³)
		Height	x Width	x Depth		
1	352 00 ⁽¹⁾	300	x 200	x 160	4	20
1	352 01	400	x 300	x 200	5.8	42
1	352 02	500	x 400	x 200	8.3	66
1	352 05	600	x 400	x 250	12	92
1	352 06	700	x 500	x 250	15	131
1	352 11	800	x 600	x 300	22	201
1	352 13	1000	x 800	x 300	38	323
1	352 14	1200	x 800	x 300	45	387
1	352 15	1400	x 800	x 400	60	452

Wall-mounting lugs

1 364 06 For load up to 300 kg
Horizontal or vertical installation
Supplied with stainless steel screws
Set of 4

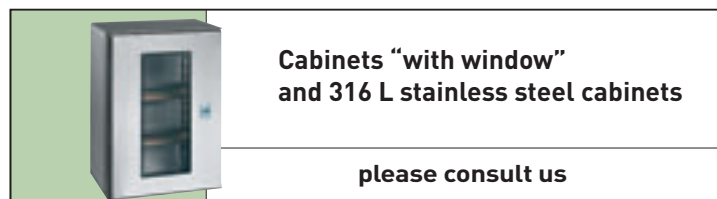
316 L stainless steel cabinets

Available on special request

AFNOR Z3 CND 17.12.02

For use in very harsh environments:

- industrial: acid or acid fumes continuously present, halides present
- offshore, naval: chlorides present



Cabinets "with window"
and 316 L stainless steel cabinets

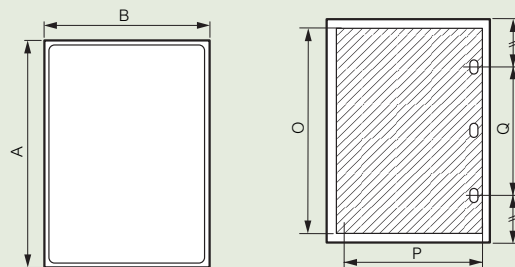
please consult us

Atlantic stainless steel cabinets

IP 66 - IK 10 - Nema 4x

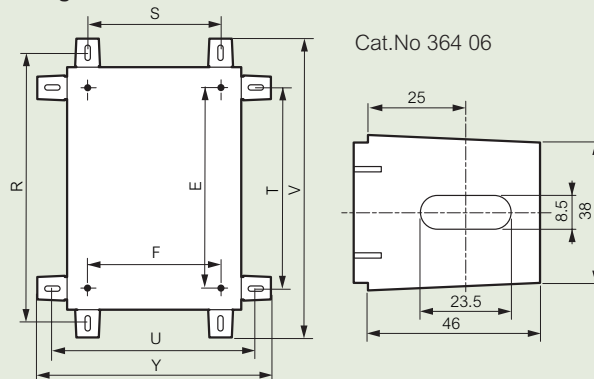
Usable dimensions

Doors



Cat.Nos	Cabinets dimensions			Door usable dimensions		Lock positions Q (mm)
	Height A (mm)	Width B (mm)	Depth (mm)	O (mm)	P (mm)	
352 00	301.6	199.6	161.5	250	150	
352 01	401.6	299.6	201.5	350	250	
352 02	501.6	399.6	201.5	450	350	250
352 05	601.6	399.6	251.5	550	350	380
352 06	702.4	500	251.5	650	450	400
352 11	802.4	600	301.5	750	550	400
352 13	1003.6	800.6	301.5	950	750	600
352 14	1203.6	800.6	301.5	1150	750	700
352 15	1400.6	800.6	401.5	1350	750	700

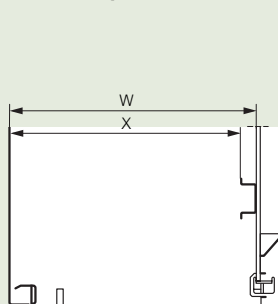
Fixing



Cat.No 364 06

Cat.Nos	Vertical lugs		Horizontal lugs		V	Y	E	F
	R	S	T	U				
352 00	350	150	250	250	392	292	225	169
352 01	450	250	350	350	492	392	325	269
352 02	550	350	450	450	592	492	425	369
352 05	650	350	550	450	692	492	525	369
352 06	750	450	650	550	792	592	625	469
352 11	850	550	750	650	892	692	725	569
352 13	1050	750	950	850	1092	892	925	769
352 14	1250	750	1150	850	1292	892	1125	769
352 15	1450	750	1350	850	1492	892	1325	769

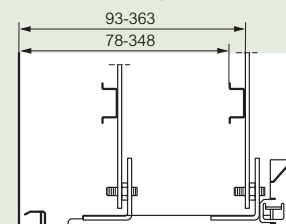
Usable depth



Adjustment of equipment (optional) with slides

Cat.No 367 45

For 400 mm depth cabinets



Enclosure depth (mm)	Back of enclosure	
	W (mm)	X (mm)
160	140	125
200	180	165
250	230	215
300	280	265
400	380	365

(1) Supplied with plain plate

MARINA CABINETS AND ENCLOSURES

And all your equipment is fixed directly...



> Equipment fixed directly at the back of cabinets

> 8 sizes of cabinets and 3 sizes of enclosures
from 300 x 200 x 150 mm to
1 800 x 800 x 400 mm



Marina cabinets polyester - IP 66 - IK 10

NEW


362 56



362 76



Technical characteristics (p. 277)

IP 66 according to IEC EN 60529
LCIE in process
IK 10 according to IEC EN 62262
UL / CSA agreements in process - Class II⁽¹⁾
Fiber glass reinforced polyester
Self-extinguishing 960°C acc. to IEC EN 60695-2-11
Adapted to corrosive environment
Reversible door opening 180°, (except Cat.No 362 50)
Stainless steel hinge pins (except Cat.No 362 50)
2 double bar lock (1 for Cat.No 362 50)
Key-locking possibility with handle Cat.No 368 05 + key barrel (p. 284)
Direct fixing of equipment at bottom of cabinet (screws supplied)
Possible to fit a partial plate from 500 x 400 x 200 mm
and/or rails on intermediate studs (except for Cat.No 362 50)
Optional depth adjustment from height 400 x width 300 mm
with Cat.No 362 42

Pack	Cat.Nos	RAL 7035 cabinets	
		External dimensions (mm) Height x Width x Depth	Corresponding metal cabinets (mm) Height x Width x Depth
1	362 50	300 x 220 x 160	300 x 200 x 160
1	362 51	400 x 300 x 206	400 x 300 x 200
1	362 52	500 x 400 x 206	500 x 400 x 200
1	362 55	610 x 400 x 257	600 x 400 x 250
1	362 56	720 x 510 x 250	700 x 500 x 250
1	362 61	820 x 610 x 300	800 x 600 x 300
1	362 63	1 020 x 810 x 300	1 000 x 800 x 300
1	362 64	1 220 x 810 x 300	1 200 x 800 x 300

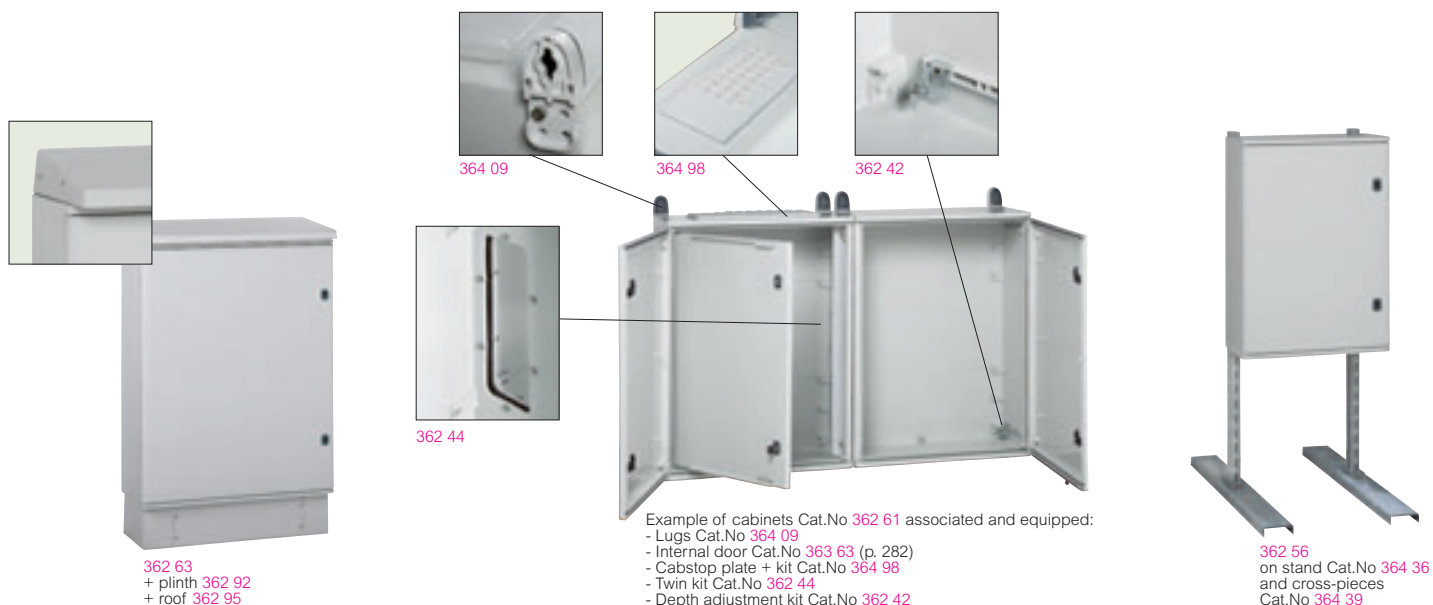
RAL 7035 cabinets with glass door			
		Coloured toughened glass	
		External dimensions (mm) Height x Width x Depth	Window dimensions (mm) Height x Width
1	362 71	400 x 300 x 206	235 x 145
1	362 72	500 x 400 x 206	335 x 245
1	362 75	610 x 400 x 257	463 x 245
1	362 76	720 x 510 x 250	570 x 272
1	362 81	820 x 610 x 300	672 x 372
1	362 83	1 020 x 810 x 300	770 x 495
1	362 84	1 220 x 810 x 300	970 x 495

RAL 7035 non-grip cabinets			
		Patented external non-stick treatment Easy cleaning Outdoor applications (anti-billposting, anti-graffiti) and indoor applications (dirt repellent)	
		External dimensions (mm) Height x Width x Depth	
1	362 33	610 x 400 x 257	
1	362 34	720 x 510 x 250	
1	362 35	820 x 610 x 300	
1	362 36	1 020 x 810 x 300	
1	362 37	1 220 x 810 x 300	

(1) Used to create totally isolated assemblies (Class II) according to EN 60439-1

NEW

Marina cabinets equipment



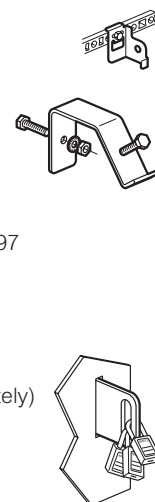
Technical characteristics (p. 277)

Pack	Cat.Nos	Plinths RAL 7035
		Height 170 mm Front and rear trap door Possibility to overlap 2 plinths For cabinets
1	362 91	Width x Depth (mm) 600 x 300
1	362 92	800 x 300

Pack	Cat.Nos	Roof RAL 7035
		IK 10 For cabinets
1	362 93	Width x Depth (mm) 500 x 250
1	362 94	600 x 300
1	362 95	800 x 300

Pack	Cat.Nos	Fixing accessories
		IP 66 maintained
		Wall mounting lugs Set of 4, supplied with screws
		For cabinets
		Height (mm) Static load max. (kg)
1	364 08	300 100
1	364 09	400 to 1 200 150
		Rear with threaded rod M8 for cabinets height $\geq$ 400 mm Mounting at back of cabinets
10	362 40	
		On ground Stand comprised of 2 feet for fixing cabinets high up Supplied with cabinet fixing screws Conform with standard EN 50125-3 (railway applications, fixed installations)
		For cabinets
		Height (mm)
1	364 36	400-800
1	364 37	1000-1200
1	364 39	Anti-tipping cross-pieces Option of fitting castors Cat.No 329 68 (p. 811)

Pack	Cat.Nos	Accessories
1	362 42	Depth adjustment kit for cabinets depth $\geq$ 200 mm, for plate or uprights (p. 281)
10	394 49	Set of 4 lugs, supplied with screws
		Set of 2 support for 45° rail slope
		Supplied with 4 M6 screws, nuts and washers
1	364 98	Mounting kit for Cabstop plate on plane surface
		For assembly 2 Cabstop plates Cat.Nos 364 94 or 95, and 364 96 or 97
1	362 44	Twin kit (horizontal or vertical) for cabinets $\geq$ 500 mm height
		Comprising:
		- 1 frame for cable crossing and weather proofing
		- 2 linking pieces for fixing lugs (Cat.No 364 09 to be ordered separately)
1	365 13	Padlock adaptor stainless steel for cabinets height $\geq$ 400 mm additional to latches
		Takes 3 padlocks $\varnothing$ 6 max.



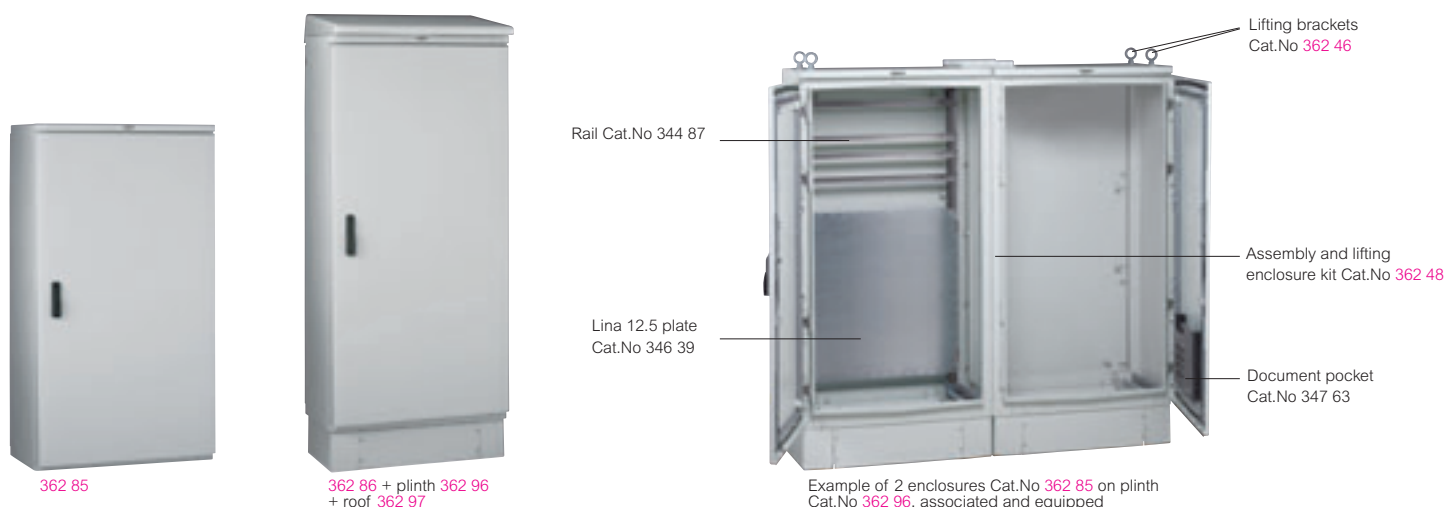
Other locking accessories (p. 284)



Stainless steel stands: please consult us

Marina enclosures

polyester - IP 66 - IK 10



Technical characteristics (p. 278, 279)

IP 66 acc. to IEC EN 60529. IK 10 acc. to EN 622 62 (EN 50102)
 UL/CSA agreements in process. Class II ⁽¹⁾. Fiberglass reinforced polyester
 Self-extinguishing 960°C acc. to IEC EN 60695-2-11. Adapted to corrosive environment
 Supplied with fixing kit for plain plates or sectionned uprights. Depth adjustment of equipment
 Equipped with low cable entries plate
 Reversible door with strand-holder
 3 point closing with handle fitted with 1/2 locking latch 2433 A (other key code, please consult us)
 Stainless steel hinges and hinges axis

Pack	Cat.Nos	Enclosures RAL 7035	
		External dimensions (mm) Height x Width x Depth	Corresponding metal enclosures (mm) Height x Width x Depth
1	362 85	1 460 x 800 x 463	1 400 x 800 x 400
1	362 86	1 660 x 800 x 463	1 600 x 800 x 400
1	362 87	1 860 x 800 x 463	1 800 x 800 x 400

Pack	Cat.Nos	Plinths RAL 7035
		Height 170 mm Front and rear trap door Possibility to overlap 2 plinths
1	362 96	For enclosure width 800 x depth 400 mm

Pack	Cat.Nos	Roof RAL 7035
1	362 97	For enclosure width 800 x depth 400 mm

Equipment			
Plain plates			
Galvanized steel. Pre-marked pitch 100 mm			
Admissible load: 200 kg/m ²			
		For enclosures Height x Width (mm)	Net weight (kg)
1	349 59	1 400 x 800	27
1	349 50	1 600 x 800	30.5
1	344 18	1 800 x 800	34
Lina 12.5 plates			
Galvanized steel. For mounting with sectionned uprights (except plain plate Cat.No 346 08)			
Admissible load: 50 kg/m ²			
Supplied with fixing screws			
		Plates Height x Width (mm)	Net weight (kg)
1	346 39	800 x 800	7.6
1	346 45	1 000 x 800	9.6
1	346 08	1 400 x 800	13.6
Lina 25 perforated plates			
Zinc steel. For mounting with sectionned uprights (except plain plate Cat.No 346 09)			
Admissible load: 50 kg/m ²			
Supplied with fixing screws			
		Plates Height x Width (mm)	Net weight (kg)
1	346 23	800 x 800	3.5
1	346 33	1 000 x 800	4.6
1	346 09	1 400 x 800	6.8

Pack	Cat.Nos	Screws
500	366 44	Rivet reinforced plastic Ø6 mm for drilling Ø6.5 mm
100	347 45	Screw head height 4.8 mm x 16 self-drilling self-tapping for Ø3.3 mm
200	347 50	Screw cover for isolation of screw head Cat.No 347 45 inside the trunking

Pack	Cat.Nos	Sectionned uprights
		For Lina 25  or  rails Set of 2 uprights zinc steel
		For enclosures
		Height (mm) Length (mm)
1	344 91	1 400 1 481
1	344 90	1 600 1 681
1	344 92	1 800 1 881

Pack	Cat.Nos	Lina 25 rail
		Zinc steel For enclosures width 800 mm Rail length: 690 mm
10	344 87	
10	344 82	

Pack	Cat.Nos	Accessories
1	362 46	Lifting brackets M14 Set of 4 brackets for max. load 500 kg/m ³ Supplied with blanking plates
1	362 48	Assembly and lifting enclosures kit: - 2 support brackets - screws - weatherproof seal For 500 kg/m ³ lifting, order separately one set of 4 brackets Cat.No 362 46

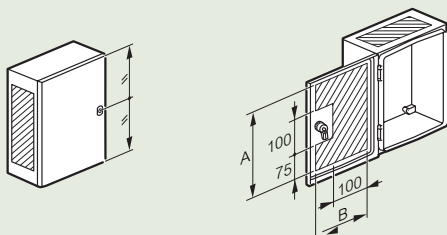
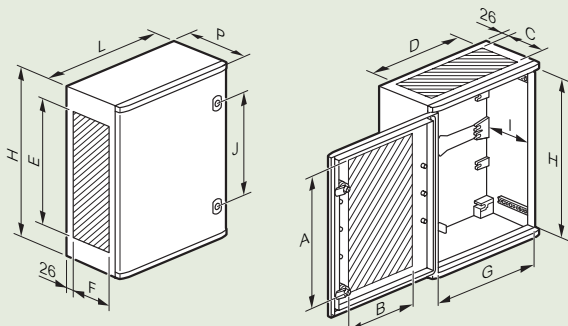
Pack	Cat.Nos	Document pocket
1	347 63	Fixing directly on door Metal 1.5 mm thick 275 x 448.5 x 50 mm

(1) Used to create totally isolated assemblies (Class II) according to EN 60439-1

Marina cabinets

polyester - IP 66 - IK 10

■ Dimensions, weights and usable areas



Cat.Nos	Usable area (mm)									
	A ⁽¹⁾	B ⁽¹⁾	C	D	E	F	G	H	I maxi	J
362 50	250	150	105	195	250	115	194	280	130	-
362 51/71	300	180	130	250	260	150	260	350	178	200
362 52/72	400	280	130	350	360	150	360	450	178	300
362 33/55/75	500	280	180	350	460	180	360	560	225	400
362 34/56/76	600	340	170	400	560	170	460	662	211	400
362 35/61/81	700	440	220	500	660	230	560	762	261	500
362 36/63/83	900	600	220	700	860	230	760	962	261	580
362 37/64/84	1100	600	220	700	1060	230	960	1162	261	700

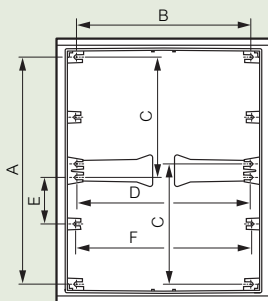
(1) Except window version

Cat.Nos	Dimensions H x W x D (mm)	Weight (kg)	Weight with window door (kg)
362 50	300 x 220 x 160	1.75	-
362 51/71	400 x 300 x 206	3.7	4
362 52/72	500 x 400 x 206	5.1	5.6
362 33/55/75	610 x 400 x 257	6.4	7
362 34/56/76	720 x 510 x 250	11.2	12.3
362 35/61/81	820 x 610 x 300	15.2	16.7
362 36/63/83	1020 x 810 x 300	21.8	23.9
362 37/64/84	1220 x 810 x 300	25	27.5

■ Equipment fixing

Cat.Nos	A (mm)	B (mm)	C (mm)	D (mm)	E ⁽¹⁾ (mm)	F (mm)
362 50	263	163	-	-	-	-
362 51/71	325	225	125	225	102.5	228.5
362 52/72	425	325	225	325	87.5	228.5
362 33/55/75	525	325	325	325	95	328.5
362 34/56/76	625	425	425	425	100	428.5
362 35/61/81	725	525	525	525	100	528.5
362 36/63/83	925	725	725	725	100	728.5
362 37/64/84	1125	725	925	725	100	728.5

(1) 2 studs on height Cat.No 362 50



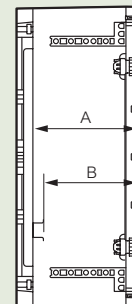
Partial plates mounting

Cabinet Cat.Nos	Plate dim. (mm)	Plate Cat.Nos		
		Plain	Lina 12.5	Lina 25
362 52/72	300 x 400	360 51	360 04	360 11
362 33/55/75	400 x 400	360 70	360 05	360 92
362 34/56/76	500 x 500	360 71	360 14	360 93
362 35/61/81	600 x 600	360 57	360 24	360 17
362 36/63/83	800 x 800	360 60	360 34	360 20
362 37/64/84	1000 x 800	360 61	360 21	360 42

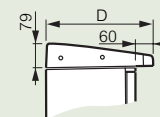
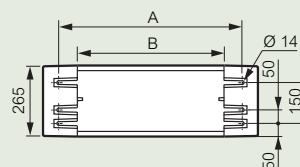
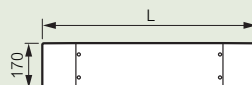


■ Adjustment of equipment (optional)

Cat.Nos	Plain plate (mm)		Chassis with rail (mm)	
	A max.	A min. (with Cat.No 362 42)	B max.	B min. (with Cat.No 362 42)
362 50	135	-	-	-
362 51/71	170	70	155	55
362 52/72	170	70	155	55
362 33/55/75	220	70	205	55
362 34/56/76	220	70	205	55
362 35/61/81	270	70	255	55
362 36/63/83	270	70	255	55
362 37/64/84	270	70	255	55



■ Plinths and roofs



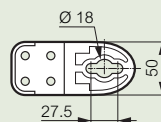
Plinths Cat.Nos	L (mm)	A (mm)	B (mm)	Weight (kg)
362 91	590	480	344	4.8
362 92	790	680	544	5.4

Roofs Cat.Nos	Width (mm)	D (mm)	Weight (kg)
362 93	510	310	1
362 94	612	360	1.3
362 95	812	360	1.7

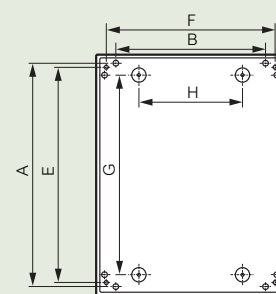
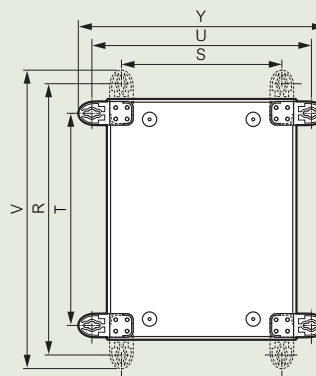
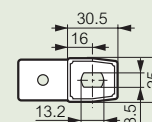
same fixing distances on ground and cabinet side

■ Fixing

Cat.No 364 09



Cat.No 364 08



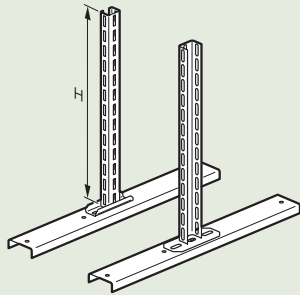
Cat.Nos	On stands 364 36 (mm)		Direct fixing outside mounting plate and stand area 364 37 (mm)		Direct fixing through rear of cabinet (mm)		With vertical brackets (mm)			With horizontal brackets (mm)		
	A	B	E	F	G	H	R	S	V	T	U	Y
362 50 ⁽¹⁾⁽²⁾	-	-	-	-	220	150	330	190	359	270	250	279
362 51/71	364	218	358	259	325	120	470	241	525	341	370	425
362 52/72	464	318	458	359	425	220	570	341	625	441	470	525
362 33/55/75	574	318	558	358	525	220	680	341	735	551	470	525
362 34/56/76	683	427	664	468	600	200	789	441	844	641	579	634
362 35/61/81	781	525	764	568	700	300	887	548	942	758	677	732
362 36/63/83	981	725	964	768	900	500	1087	748	1142	958	877	932
362 37/64/84	1181	725	1164	768	1100	500	1287	748	1342	1158	877	932

(1) With brackets Cat.No 364 08

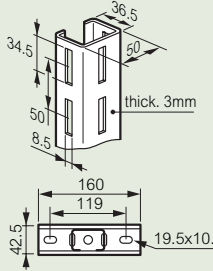
(2) S and T dimensions: insert fixing centres

Marina cabinets
polyester - IP 66 - IK 10

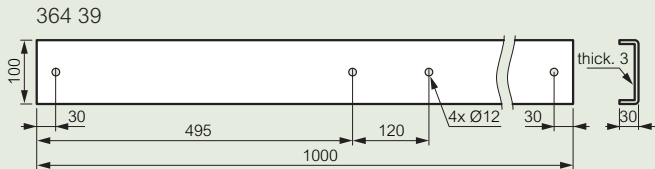
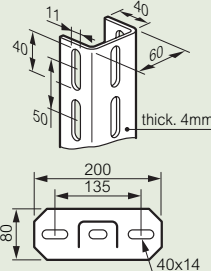
■ Stands



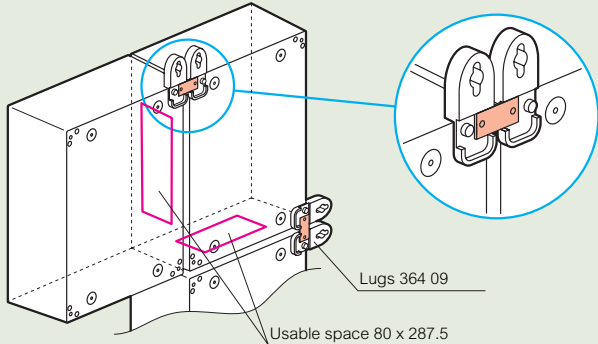
364 36 (H=1203 mm)



364 37 (H=1603 mm)

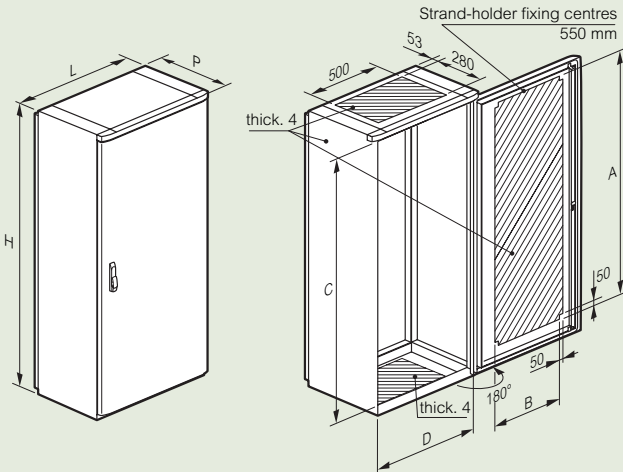


■ Coupling kit for cabinets Cat.No 362 44



Marina enclosures
polyester - IP 66 - IK 10

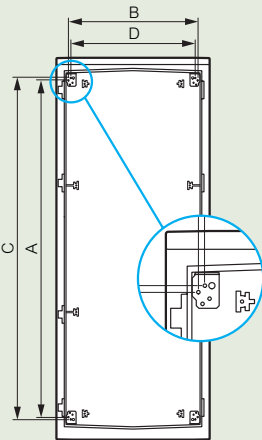
■ Dimensions weights and usable areas



Cat.Nos	Dimensions H x W x D (mm)	Weight (kg)	Usable areas (mm)			
			A	B	C	D
362 85	1460 x 800 x 463 ⁽¹⁾	49	1230	530	1300	700
362 86	1660 x 800 x 463 ⁽¹⁾	53	1430	530	1500	700
362 87	1860 x 800 x 463 ⁽¹⁾	57	1630	530	1700	700

(1) 487 with handle

■ Equipment fixing

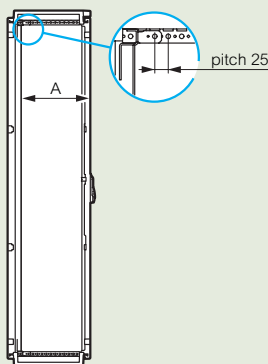


Cat.Nos	Plain plate		Sectioned uprights ⁽¹⁾	
	A	B	C	D
362 85	1225	675	1250	630
362 86	1425	675	1450	630
362 87	1625	675	1650	630

(1) for partial plates mounting

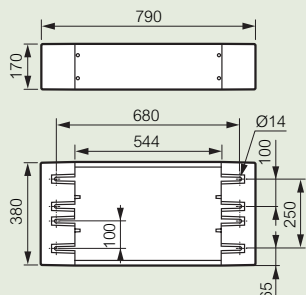
Use profiled uprights for mounting Lina 12.5 partial plates or Lina 25 perforated plates in enclosures 1600 and 1800 mm high

■ Adjustment of equipment



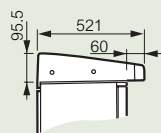
Plain plate (mm)		Partial plate (mm)		Chassis with rail (mm)	
A max	A min	A max	A min	A max	A min
379	109	357	88	351	82

■ Plinth Cat.No 362 96



Weight: 7 kg

■ Roof Cat.No 362 97

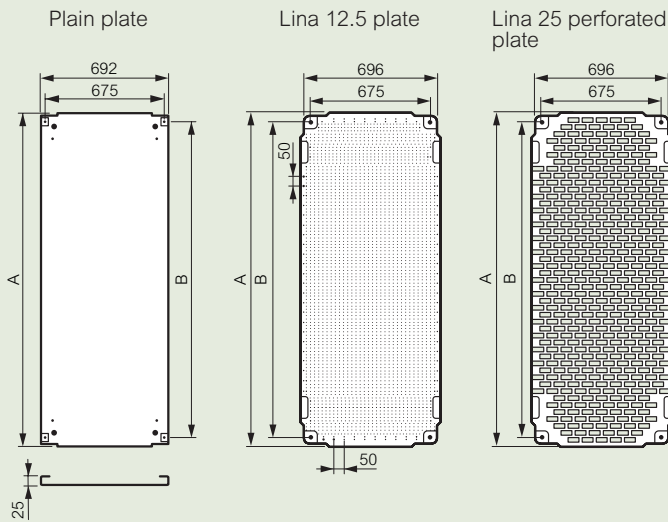


Width: 794 mm
Weight: 2.5 kg

■ Plates

Choice of plates

Plate	Enclosures H. 1400 mm	Enclosures H. 1600 mm	Enclosures H. 1800 mm
Plain	349 59	349 50	344 18
Lina 12.5	346 08	2 x 346 39 + uprights 344 90	346 45 + 346 39 + uprights 344 92
Lina 25 perforated	346 09	2 x 346 23 + uprights 344 90	346 33 + 346 23 + uprights 344 92

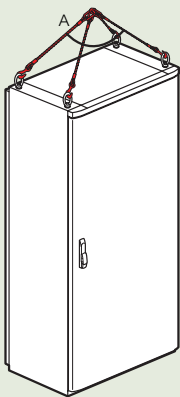


	Plain		Lina 12.5 and Lina 25 perforated	
	A	B	A	B
800	-	-	721	675
1000	-	-	921	875
1400	1292	1225	1296	1250
1600	1492	1425	-	-
1800	1692	1625	-	-

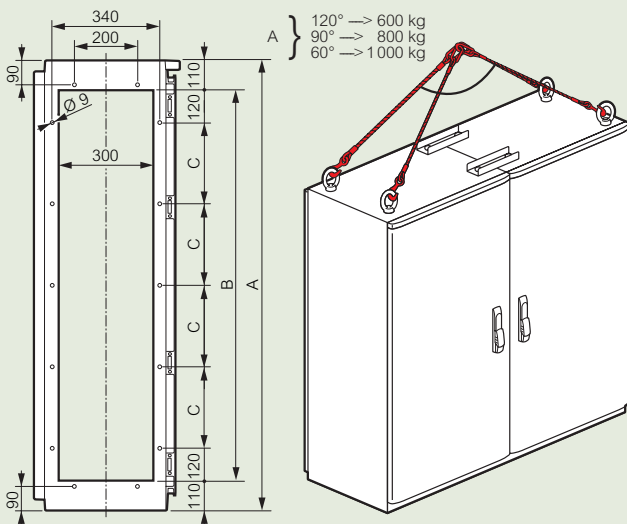
■ Suggested lifting method

4 x 500 kg slings and 4 brackets

A } 120° → 600 kg
90° → 800 kg
60° → 1000 kg



■ Assembly and lifting kit Cat.No 362 48



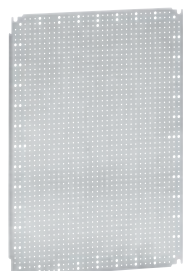
Enclosures Cat.Nos	Enclosures dimensions (mm)	Dimensions (mm)		
		A	B	C
362 85	1400 x 800 x 400	1460	1240	250
362 86	1600 x 800 x 400	1660	1440	300
362 87	1800 x 800 x 400	1860	1640	350

Atlantic, Atlantic stainless steel, Marina

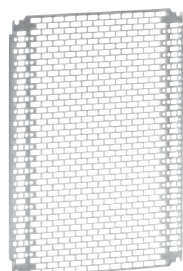
common equipment for cabinets



360 58



360 31



360 18



355 08 + 360 22
vertical mounting



355 06 + 360 22
horizontal mounting



Technical characteristics (p. 283)

Pack	Cat.Nos	Plain plates	
		Galvanized steel	
		For cabinets Height x Width (mm)	Weight (kg)
1	360 49 ⁽¹⁾	300 x 220	0.9
1	360 69	300 x 300	1
1	360 52 ⁽³⁾	300 x 400	1.3
1	360 52 ⁽³⁾	400 x 300	1.3
1	360 70	400 x 400	1.7
1	360 56 ⁽³⁾	400 x 600	3.3
1	360 55	500 x 400	2.7
1	360 71	500 x 500	3.5
1	360 56 ⁽³⁾	600 x 400	3.3
1	360 57	600 x 600	6.2
1	360 59 ⁽³⁾	600 x 800	8.4
1	360 54 ⁽³⁾	600 x 1000	10.6
1	360 58	700 x 500	6
1	360 59 ⁽³⁾	800 x 600	8.4
1	360 60	800 x 800	11.4
1	360 61 ⁽³⁾	800 x 1000	14.4
1	360 54 ⁽²⁾	1000 x 600	10.6
1	360 61 ⁽³⁾	1000 x 800	14.4
1	360 63	1000 x 1000	20.5
1	360 65 ⁽³⁾	1000 x 1200	23
1	360 64	1200 x 800	18.5
1	360 65 ⁽³⁾	1200 x 1000	23
1	360 66	1200 x 1200	34.4
1	360 67 ⁽²⁾	1400 x 800	26.4
1	360 68	1400 x 1000	32.2

		Lina 12.5 plates	
		Galvanized steel.	
		With drilling for fixing equipment without marking.	
		Automatic bracket:	
		- Ø6.5 mm for plastic rivet Cat.No 366 44 (trunking)	
		- Ø3.3 mm for equipment with screw Cat.No 347 45	
		For cabinets Height x Width (mm)	Weight (kg)
1	360 00 ⁽²⁾	300 x 200	0.4
1	360 01 ⁽¹⁾	300 x 220	0.47
1	360 02	300 x 300	0.6
1	360 04 ⁽³⁾	300 x 400	0.8
1	360 05	400 x 400	1.1
1	360 22 ⁽³⁾	400 x 600	2.2
1	360 09	500 x 400	1.5
1	360 14	500 x 500	1.85
1	360 22 ⁽³⁾	600 x 400	2.2
1	360 24	600 x 600	3.7
1	360 33 ⁽³⁾	600 x 800	5.2
1	360 40 ⁽³⁾	600 x 1000	6.8
1	360 31	700 x 500	3.7
1	360 33 ⁽³⁾	800 x 600	5.2
1	360 34	800 x 800	7
1	360 42 ⁽³⁾	800 x 1000	9.2
1	360 40 ⁽³⁾	1000 x 600	6.8
1	360 43	1000 x 1000	11.5
1	360 47 ⁽³⁾	1000 x 1200	13.9
1	360 46	1200 x 800	11.1
1	360 47 ⁽³⁾	1200 x 1000	13.9
1	360 48	1200 x 1200	16.7
1	360 75 ⁽²⁾	1400 x 800	13
1	360 79	1400 x 1000	16.2

Pack	Cat.Nos	Lina 25 perforated plates	
		Galvanized steel	
		For cabinets Height x Width (mm)	Weight (kg)
1	360 07 ⁽²⁾	300 x 200	0.4
1	360 99 ⁽¹⁾	300 x 220	0.4
1	360 91	300 x 300	0.5
1	360 11	300 x 400	0.6
1	360 12	400 x 300	0.6
1	360 92	400 x 400	0.8
1	360 13	400 x 600	1.1
1	360 15	500 x 400	0.9
1	360 93	500 x 500	1.1
1	360 16	600 x 400	1.3
1	360 17	600 x 600	2.1
1	360 06	600 x 800	3.1
1	360 08	600 x 1000	3.7
1	360 18	700 x 500	2
1	360 19	800 x 600	3.1
1	360 20	800 x 800	4
1	360 94	800 x 1000	5
1	360 23	1000 x 600	3.7
1	360 21	1000 x 800	4.9
1	360 25	1000 x 1000	6.8
1	360 10	1000 x 1200	8.5
1	360 87	1200 x 800	7.1
1	360 88	1200 x 1000	8.5
1	360 89	1200 x 1200	10.1
1	360 90 ⁽²⁾	1400 x 800	7.8
1	360 98	1400 x 1000	10
		Clip-nuts for perforated plates	
		Supplied without screw	
100	364 40	For M4 screws	
100	364 41	For M5 screws	
100	364 42	For M6 screws	

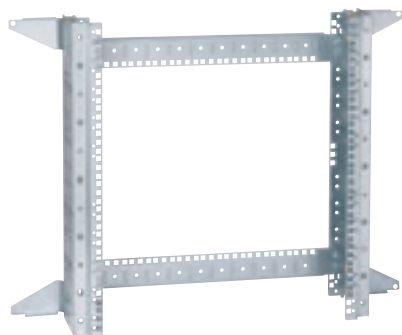
		Accessories	
500	366 44	Rivet reinforced plastic Ø6 mm for Ø6 mm drilling	
100	347 45	Screw head 4.8 x 16 mm self-drilling, self-tapping for Ø3.3 mm	
200	347 50	Screw cover for isolation of screw head Cat.No 347 45 inside the trunking	

Other screws (p. 285)

(1) For Marina
(2) For Atlantic, Atlantic stainless steel
(3) For horizontal mounting (horizontal version cabinets or vertical)

Atlantic, Atlantic stainless steel, Marina

common equipment for cabinets (continued)



340 71 supplied not assembled



363 13



367 36



Metal Atlantic cabinet



Technical characteristics (p. 283, 816)

Pack	Cat. Nos	Lina 25 sectioned uprights		
		Set of 2 uprights		Section
		For cabinets height (mm)	Length (mm)	
5	361 50 ⁽¹⁾	300	237	L
5	361 51	400	337	
5	361 52	500	437	
5	361 53	600	537	
5	361 54	700	637	
5	361 55	800	737	L
5	361 56	1 000	937	
1	361 58	1 200	1 137	
1	361 59 ⁽¹⁾	1 400	1 337	
		Upright to be cut		Section
10	361 92	Length 3 m		L

		Lina 25 rail	
		Rail	
		For fixing onto uprights with clip nut Cat.No 364 42 and screw-washer Cat.No 367 75 (p. 285)	
		For cabinets width (mm)	Crosspiece length (mm)
10	367 80	300	243
10	367 81	400	343
10	367 82	500	443
10	367 83	600	543
10	367 84	800	743
10	367 85	1000	943
10	367 86	1200	1143
		Rail to be cut, length 2 m	
10	374 02	Asymmetrical  EN 60715	
10	374 07	Symmetrical  depth 15 mm	

		Protective conductor lug	
5	367 36	Support lug for protection copper bar	

		Wall-mounting VDI chassis for Atlantic, Atlantic stainless steel and Marina cabinets	
		For integrating 19" VDI equipment in Atlantic, Atlantic stainless steel and Marina cabinets, width 600 x 800 mm and depth 250 mm min.	
		In 400 mm wide cabinets, the chassis can be used to integrate VDI equipment from the mini XL VDI cabinet	
		Can be fixed directly to the wall to create a wall-mounting chassis (without cabinet)	
		Self-locking cable ties and cable ties with tightening indicator (p. 813) can be fitted	
1	340 70	6 U chassis	
1	340 71	12 U chassis	
1	340 72	16 U chassis	

NEW

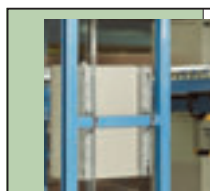
Pack	Cat.Nos	Copper bars			
		Copper bars with tapped holes			
		Cross-section (mm)	Permis I (A)	Tapped holes Ø mm Pitch	Length (mm)
10	373 88	12 x 2	110	M5 18	990
10	373 89	12 x 4	160	M5 18	990
		Connectors for bars with tapped holes			
100	373 65	1 or 2 conductor from 1.5 to 10 mm ² (supplied with Ø5 mm screws)			
		Non perforated copper bar			
		Cross-section (mm)	Permis I (A)	Length (mm)	
10	373 49	12 x 4	180	991.5	
		Connectors for bar Cat.No 373 49			
100	373 60	1.5 to 4 mm ²			
10	373 61	6 to 16 mm ²			
10	373 62	10 to 35 mm ² (supplied with M6 screw Ø5 mm)			





		Door contact	
1	363 13	6 A - 250 V 1 NC contact + 1 NO contact Supplied with fixing lug	

		Hinged glass doors		
		IP 54 - IK 07. Anodised aluminium frame Altuglass inspection window, 4 mm thick Neoprene seal. 455 key lock (Ronis 911C 1/4 turn) Supplied with drilling template.		
		For devices in front panel Protect the equipment and avoid accidental operations		
		External dim. H x W x D (mm)	Window dim. H x W (mm)	Usable depth (mm)
1	363 81	297 x 397 x 50	250 x 350	45
		For PLCs For viewing internal equipment		
		External dim. H x W x D (mm)	Window dim. H x W (mm)	Cut-out dim. (mm)
1	363 83	380 x 430 x 15	339 x 389	340 x 390
		Self adhesive document holders for plans RAL 7035		
		External dim. Width x Height (mm)	internal dim. W x H x D (mm)	
20	365 80	340 x 235	310 x 200 x 18	
20	365 81	260 x 165	230 x 130 x 18	
10	097 99	Flexible plastic - A4		



Horizontal or vertical fixing kit on post

please consult us

(1) For Atlantic, Atlantic stainless steel

Red catalogue numbers: New products

Atlantic, Atlantic stainless steel, Marina

distribution equipment for cabinets



361 03 mounted in cabinet
Cat.No 354 94



363 60 mounted in Atlantic metal
cabinets Cat.No 355 03
with Cat.No 363 69



Accept key barrel



363 60 mounted in Atlantic stainless
steel cabinets Cat.No 352 02

Pack Cat. Nos Chassis with insulating faceplates RAL 7035

Symmetrical rails 15 mm depth
Supplied complete with uprights and faceplates
Space between door and faceplate
Atlantic: Depth 200: 70 mm
Atlantic stainless steel: Depth 250: 80 mm
Marina: Depth 300: 90 mm
Self extinguishing 750 °C acc. to IEC EN 60695-2-11

For cabinets
Height x width x Depth (mm)

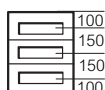
400 x 300 x 200

30 modules (3 rows of 10)
Supplied with 1 blanking plate



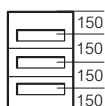
500 x 400 x 200

48 modules (3 rows of 16)
Supplied with 1 blanking plate



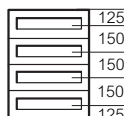
600 x 400 x 250

48 modules (3 rows of 16)
Supplied with 1 blanking plate



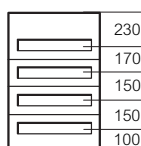
700 x 500 x 250

84 modules (4 rows of 21)
Supplied with 1 blanking plate



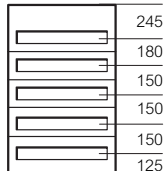
800 x 600 x 300

108 modules (4 rows of 27)
Supplied with 2 blanking plates
Can take in 1st row a mounting
plate Cat.No 360 44



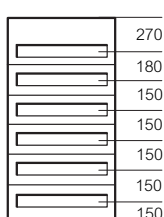
1 000 x 800 x 300

190 modules (5 rows of 38)
Supplied with 2 blanking plates
Can take in 1st row a mounting
plate Cat.No 360 45



1 200 x 800 x 300

228 modules (6 rows of 38)
Supplied with 2 blanking plates
Can take in 1st row a mounting
plate Cat.No 360 45

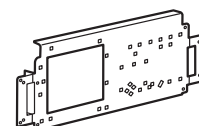


Pack Cat.Nos Blanking plate

10 361 00 38 modules, length 684 mm

1 360 44 Mounting plates

For 800 x 600 mm cabinets
for DPX 125, 160 MCCBS
or Vistop 160 A
1 360 45 For 1 000 x 800 mm
or 1 200 x 800 mm cabinets
For 1, 2 or 3 DPX 125, 160,
250ER MCCBS or Vistop 160 A

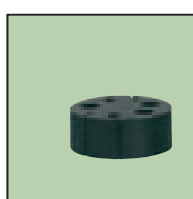


NEW Internal doors RAL 7035

For direct routing in Atlantic stainless steel and
Marina cabinets, with Cat.No 363 69 in
Atlantic metal cabinets
IP XXB
Polyester fiber glass reinforced, height 4 mm
Self-extinguishing 960°C acc. to IEC EN 60695-2-11
Grid lines integrated on back
Centre marking on front
Adjustable distance between cabinet door and
internal door: 42 to 50 mm for Atlantic cabinets,
more than 100 mm for Marina cabinets
Right or left opening, captive hinge pins
Double bar key: 1 key for 400 to 600 mm height,
2 keys for height from 700 mm
Take key barrels and other barrels

	For cabinets Height x Width(mm)	Dim. (mm) Height x Width	Usable dim. (mm) Height x Width
1	363 59 400 x 300	341 x 236	305 x 185
1	363 60 500 x 400	441 x 336	405 x 250
1	363 61 600 x 400	541 x 336	505 x 250
1	363 62 700 x 500	642 x 436	500 x 340
1	363 63 800 x 600	742 x 536	600 x 440
1	363 64 1 000 x 800	942 x 736	800 x 640
1	363 65 1 200 x 800	942 x 736	800 x 640

Accessory for mounting internal doors in Atlantic
metal cabinets.



**Cable glands with multiple
input seals**

see p. 294

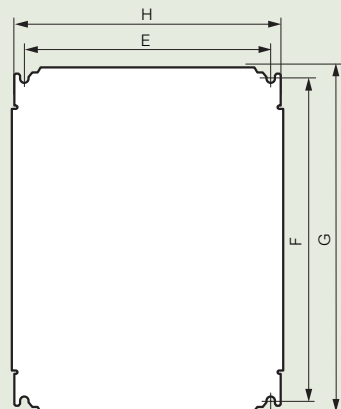
Atlantic, Atlantic stainless steel, Marina

common equipment for cabinets

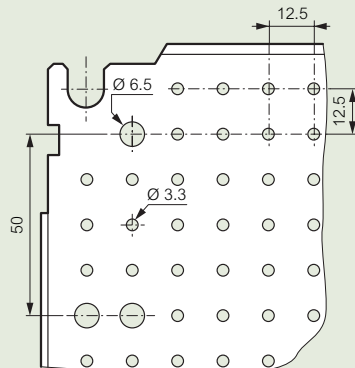
■ Dimensions

Plain plates, Lina 12.5 and Lina 25 perforated plates

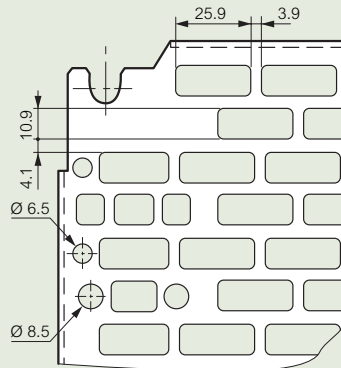
Plain



Lina 12.5 detail

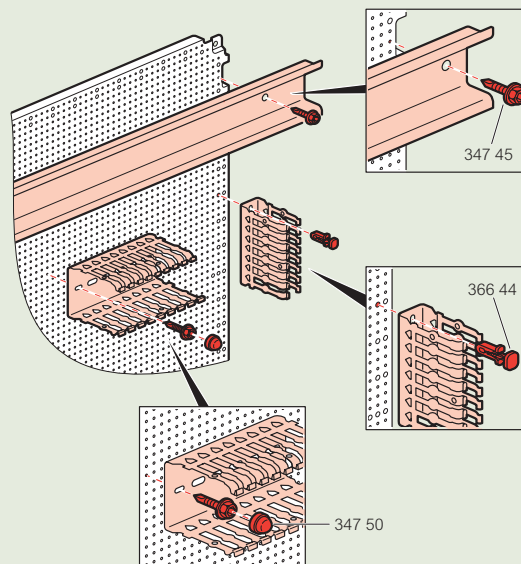


Lina 25 perforation detail



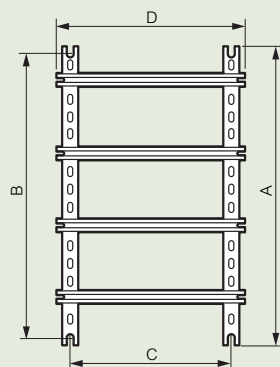
Cabinets dimensions Height x Width (mm)	Dimensions of plates Plain / Lina 12.5 / 25 plates		Usable space for equipment (dm ²)	Mounting of plates	
	G (mm)	H (mm)		F (mm)	E (mm)
300 x 200	256	156	4.2	225	125
300 x 220	275	192	5.3	263	163
300 x 300	256	256	6.2	225	225
300 x 400 ⁽¹⁾	256	356	8.2	225	325
400 x 300 ⁽¹⁾	356	256	8.2	325	225
400 x 400	356	356	11.7	325	325
400 x 600 ⁽¹⁾	356	556	18.7	325	525
500 x 400	456	356	15.2	425	325
500 x 500	456	456	19.2	425	425
600 x 400 ⁽¹⁾	556	356	18.7	525	325
600 x 600	556	556	29.7	525	525
600 x 800 ⁽¹⁾	556	756	40.7	525	725
600 x 1000 ⁽¹⁾	556	956	51.7	525	925
700 x 500	656	456	28.7	625	425
800 x 600 ⁽¹⁾	756	556	40.7	725	525
800 x 800	756	756	55.7	725	725
800 x 1000 ⁽¹⁾	756	956	71.7	725	925
1000 x 600 ⁽¹⁾	956	556	51.7	925	525
1000 x 800 ⁽¹⁾	956	756	70.7	925	725
1000 x 1000	956	956	89.7	925	925
1000 x 1200 ⁽¹⁾	956	1156	108.7	925	1125
1200 x 800	1156	756	85.7	1125	725
1200 x 1000 ⁽¹⁾	1156	956	108.7	1125	925
1200 x 1200	1156	1156	131.7	1125	1125
1400 x 800	1356	756	100.7	1325	725
1400 x 1000	1356	956	127.7	1325	925

(1) For horizontal or vertical mounting



Example of rail fixed with screws Cat.No 347 45 and Lina 25 cable ducting fixed with rivet Cat.No 366 44 on Lina 12.5 plate

Assembled chassis with rails and Lina 25 uprights



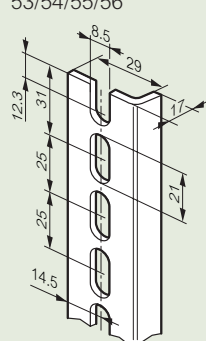
Dimensions of cabinets Height x Width (mm)	Uprights height	Rail length	Chassis fixing	
	A (mm)	D (mm)	B (mm)	C (mm)
300 x 300	237	243	225	225
300 x 400	237	343	225	325
400 x 300	337	243	325	225
400 x 400	337	343	325	325
400 x 600	337	543	325	525
500 x 400	437	343	425	325
500 x 500	437	443	425	425
600 x 400	537	343	525	325
600 x 600	537	543	525	525
600 x 800	537	743	525	725
600 x 1000	537	943	525	925
700 x 500	637	443	625	425
800 x 600	737	543	725	525
800 x 800	737	743	725	725
800 x 1000	737	943	725	925
1000 x 600	937	543	925	525
1000 x 800	937	743	925	725
1000 x 1000	937	943	925	925
1000 x 1200	937	1143	925	1125
1200 x 800	1137	743	1125	725
1200 x 1000	1137	943	1125	925
1200 x 1200	1137	1143	1125	1125
1400 x 800	1337	743	1325	725
1400 x 1000	1337	943	1325	925

Atlantic, Atlantic stainless steel, Marina

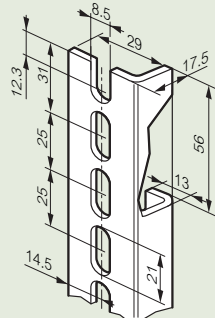
common equipment for cabinets (continued)

Lina 25 sectioned uprights

Cat.Nos 361 50/51/52/
53/54/55/56

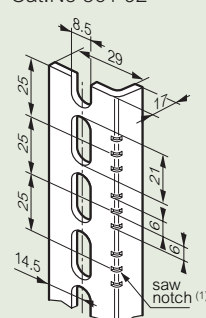


Cat.Nos 361 58/59



Lina 25 sectioned uprights to be cut

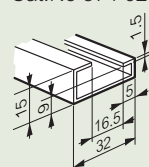
Cat.No 361 92



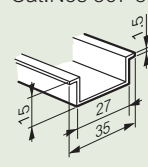
(1) Saw notch for upright length x pitch 25, the 2 others for uprights Cat.Nos 361 50/51/52/53/54/55/56

Rails

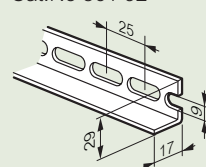
Cat.No 374 02



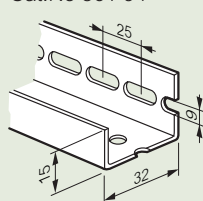
Cat.Nos 367 80/81/82/83/84/85/86 and 374 07



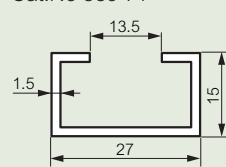
Cat.No 361 92



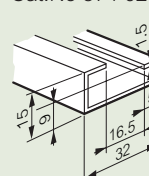
Cat.No 361 94



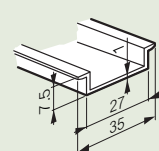
Cat.No 389 71



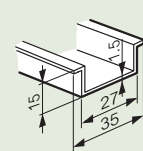
Cat.No 374 02



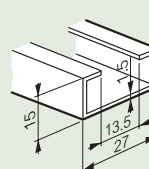
Cat.No 374 04



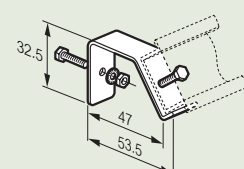
Cat.No 374 07



Cat.No 389 71



Cat.No 394 49



locking accessories

Lock housings for rebate or cylinder locks

For Atlantic, Atlantic stainless steel and Marina cabinets
Lock

10

368 04



10

368 05

Knob (with blanking plate)



10

368 06

Knob fitted with key barrel 2433 A



Padlocking

Takes 3 safety padlocks
Cat.No 227 97 (p. 133)
Shackle Ø6 mm max.
For fitting on Atlantic, Atlantic stainless steel and Marina knob or lock
RAL 7021 painted steel

1

365 11



1

365 13

Stainless steel padlocking lug for Marina cabinet height ≥ 400 mm in addition to the lock



Locking latches

For Marina cabinets
For Atlantic 1-door cabinet

10

365 30



10

368 43

Metal rebate locks⁽¹⁾

Triangle male 6.5 mm
Triangle male 8 mm
Triangle male 11 mm (EDF)

10

368 17

10

368 18

10

368 19



10

368 20

Double bar



Key barrels⁽¹⁾

Supplied with set of 2 keys
For key No
405
421
455
1242 E
2433 A
3113 A
Set of two 2433 A keys
Other key code: please consult us

10

368 22

10

368 23

10

368 24

10

368 25

10

368 26

10

368 27

10

365 45



Metal keys for rebate locks

Triangle male 6.5 mm
Triangle male 8 mm
Triangle male 11 mm (EDF)
Double bar
Multi-size key for rebate locks:
square male 8 mm,
square male 6 mm,
Triangle male 8 mm and
double bar

10

365 39

10

365 40

10

365 41

10

365 42

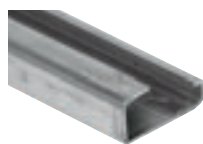
1

368 42

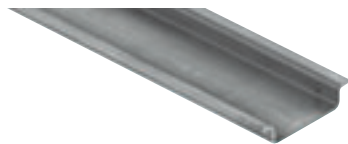


(1) Except Marina enclosures: please consult us.

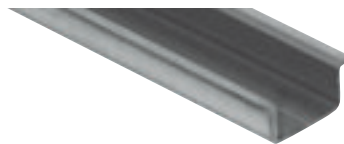
uprights, rails and wiring accessories fixing for cabinets and enclosures



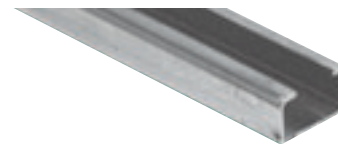
374 02



374 04



374 07



389 71



366 44



347 45



347 50

For mounting chassis and fixing wiring accessories

Pack	Cat.Nos	Uprights to be cut
10	361 92	Lina 25
10	361 94	Length 3 m - Section
		Length 2 m - Section
10	389 71	On C profile rail
		Length 2 m - Section
Rails to be cut		
		Length 2 m
		Zinc
10	374 02	Asymmetrical EN 60 715
10	374 04	Symmetrical EN 60 715 depth 7.5 mm
10	374 07	Symmetrical depth 15 mm, th. 1.5 mm
10	389 71	C profile - th. 1.5 mm
45° mounting bracket		
10	394 49	Set of 2 supports with 4 screws Ø6 mm, nuts and washers

Wiring accessories fixing		
On plain plates		
100	347 46	CBL Z 5.5 x 16 PZ No 3 self-tapping screw
100	347 47	CBL Z 5.5 x 19 self-drilling tapping screw
On Lina 12.5 plates		
500	366 44 ⁽¹⁾	Rivet reinforced plastic Ø6 mm for Ø6 mm drilling
100	347 45	Screw head H 4.8 x 16 mm self-drilling, self-tapping for Ø3.3 mm
200	347 50	Screw cover for isolation of screw head Cat.No 347 45 inside the trunking
On Lina 25 perforated plates		
Clip-nuts for uprights and perforated plates Lina 25		
Supplied without screw		
100	364 40	For M 4 screw
100	364 41	For M 5 screw
100	364 42	For M 6 screw
Clip-nuts for cabinet frame and crosspieces with pins which provide earth continuity		
50	347 48	For M 6 screw
50	347 49	For M 8 screw
On rails EN 60 715 		
100	364 61	Fixobar for M 4 screw
100	364 62	Fixobar for M 5 screw
100	364 63	Fixobar for M 6 screw

Wiring accessories fixing (continued)		
Adaptor		
20	364 66	For mounting on rail equipment fitting on rail
On rails EN 60 715 		
100	364 78	For M 4 screw
100	364 79	For M 6 screw
On rails EN 60 715 		
10	044 16	Claw width 10 mm Threaded hole For M 4 screw
50	044 17	Claw width 17.5 mm Smooth hole 3.8 mm Supplied with fixing screw Ø3.5 mm Length 13 mm
100	374 39	Claw width 35 mm Holes for M 4 and M 6 screws
40	364 69	Fixomega for M 4 screw
On C profile rail		
100	364 82	Stirrup for M 6 screw
Cage nuts		
For mounting on square perforation 8.3 x 8.3 mm		
20	364 50	M 4
20	364 51	M 5
20	364 52	M 6
HF screw with contact washer		
50	367 75	M 6 x 10 mm

(1) Can also be used on Lina 25 perforated plate



A complete range for heat regulation to answer all your needs

> Ventilators and natural ventilation



Ventilators

- New metal and plastic louvres
- New roof fan with or without motor

Natural ventilation

- New metal and plastic ventilation louvres



348 17



348 52



Technical characteristics (p. 291)

> Air/air exchangers, air conditioners



- New range of vertical and horizontal air conditioners
- New air/air exchangers

> Heating



- Resistance heating : to prevent condensation forming inside the enclosure
- Hygrostat and humidity thermostat : to adjust the humidity level in enclosures

Pack	Cat.Nos	Ventilators with metal louvre
		IP 32 - IK 10 Ventilator is mounted on the outside of the enclosure or cabinet A second outlet can be installed to increase the flow rate and optimise discharge rates from the enclosure 230 V - 50/60 Hz 30/160 m³/h: 30 m³ installed with filter 160 m³ for free blow-out Supplied with a pair of metal louvres, a pair of anti-insect grilles and an internal finger-guard grille RAL 7035
1	348 17	Beige RAL 7032
1	365 71	

Pack	Cat.Nos	Ventilators with plastic louvre
		IP 54 - IK 08 230 V - 50/60 Hz RAL 7035 Equipped with finger-guard grilles Reduced external dimensions (7 to 10 mm) Possibility of mounting with spacer Cat.Nos 348 88/89/90 to increase cabling capacity in enclosure Ventilator is mounted on the outside of the enclosure or cabinet Screw fixing on a panel width 1 to 4 mm A second outlet louvre can be installed to increase the flow rate and optimise discharge rates from the enclosure 40/160 m³/h 40 m³ installed with filter 160 m³ with second louvre Cat.No 348 34 160 m³ for free blow out Supplied with a pair of louvres 150 x 150 mm equipped Electrostatic filter washable EU 3, G3 100/160 m³/h 100 m³ installed with filter 160 m³ with second louvre Cat.No 348 35 160 m³ for free blow out Supplied with a pair of louvres 250 x 250 mm Media filter washable EU 3, G3 170/240 m³/h 170 m³ installed with filter 240 m³ with second louvre Cat.No 348 35 240 m³ for free blow out Supplied with a pair of louvres 250 x 250 mm Media filter washable EU 3, G3
1	348 50	
1	348 51	
1	348 52	

Check the compatibility between your enclosures size and heat regulation devices see p. 290

heat regulation for cabinets and enclosures

ventilators (continued)

NEW



348 54



348 89



Spacer 348 89 mounted on ventilator 348 52



365 74



365 79



348 04



348 05



348 35



Technical characteristics (p. 291)

Ventilators with plastic louvre (continued)

Pack	Cat.Nos	
1	348 53	360/800 m³/h 360 m³ installed with filter 800 m³ with second louvre Cat.No 348 36 800 m³ for free blow-out Supplied with a pair of louvres 325 x 325 mm Media filter washable EU 3, G3
1	348 54	520/1000 m³/h 500 m³ installed with filter 1 000 m³ with second louvre Cat.No 348 36 1 000 m³ for free blow-out Supplied with a pair of louvres 325 x 325 mm Media filter washable EU 3, G3
		Spacers for ventilators IP 54 maintained. RAL 7035 Enable increase cabling capacity in enclosure by semi-flush mounting of ventilator
1	348 88	150 x 150 mm
1	348 89	250 x 250 mm
1	348 90	325 x 325 mm
1	365 74	Air circulation kit 160 m³/h Uniformizes temperature in enclosure Prevent hot spots Plate or rail mounting in bottom part of enclosure or under most sensitive equipment The air flow must be directed upward

Roof ventilators

		Plastic - RAL 7035 Provide very high extraction rate Screw mounting on top of enclosures Dimensions: 400 x 350 x 100 mm Delivered without input air louvre IP 23 - IK 08				
		With motor Flow rate (m³/h):				
		Free blowing	With 1 louvre Cat.No 348 35	With 2 louvres Cat.No 348 35	With 1 louvre Cat.No 348 36	With 2 louvres Cat.No 348 36
1	348 07	600	350	400	400	450
1	348 08	1000	400	500	500	600

Natural ventilation

		Ventilation glands for cabinets IP 44 - IK 08 for outdoor use Grey polyamide 6.6 Drilling Ø15 mm Drilling Ø30.5 mm	
2	365 78		
2	365 79		
		Metal louvres IP 32 - IK 10 Set of 2 metal louvres + 2 anti-insect grilles	
1	348 04	RAL 7035 - 138 x 138 mm	
1	365 70	Beige RAL 7032 - 138 x 138 mm	
1	348 05	RAL 7035 - 248 x 248 mm	
1	348 16	Beige RAL 7032 - 248 x 248 mm	
		Plastic louvres RAL 7035 Supplied singly	
1	348 34	IP 44 - 150 x 150 mm With filter EU 3, G3	
1	348 35	IP 54 - 250 x 250 mm With filter EU 3, G3	
1	348 36	IP 54 - 325 x 325 mm With filter EU 3, G3	

heat regulation for enclosures

exchangers and air-conditioners

NEW


353 72



353 46



353 50



353 58



Technical characteristics (p. 291)

50/60 Hz
RAL 7035

For the permanent circulation of air inside the enclosure and cooling of the enclosure via an exchanger with aluminium plates or activation of a thermostat (preset to 35 °C) on the air-conditioner
Reduced maintenance without filter

These products do not affect the IP rating of the enclosure on which they are installed (IP 54)

Pack	Cat.Nos	Air/air exchanger
		To be installed vertically on a panel or enclosure door Total isolation of internal and external circuits Washable exchange battery Ambient operating temperature: - 5 °C to + 40 °C Dissipation rates:
1	353 71	14 W/°C
1	353 72	36 W/°C
1	353 73	50 W/°C
1	353 74	80 W/°C

		Air conditioners
		Possible setting: 20 °C to 46 °C Weatherproof cooling circuit and total isolation of internal and external air circuits Ambient operating temperature: 20 °C to 50 °C To be installed vertically For installation on a panel or enclosure door
		Cooling capacity acc. to EN 814
		Voltage/Phase
		L35L35
		L35L50
1	353 46	230 V/1
1	353 47	230 V/1
1	353 48	230 V/1
1	353 49	230 V/1
1	353 50	230 V/1
1	353 51	230 V/1
1	353 53	230 V/1
1	353 54	400 V/2
1	353 55	400 V/3
1	353 56	400 V/3

Pack	Cat.Nos	Air conditioners (continued)
		To be installed horizontally on roof To be installed on extendable enclosures only
		Cooling capacity acc. to EN 814:
		L35L35
		L35L50
1	353 58	230 V/1
1	353 59	230 V/1
1	353 60	230 V/1
1	353 62	230 V/1
1	353 63	400 V/2
1	353 64	400 V/3
1	353 65	400 V/3

heat regulation for cabinets and enclosures

heating



348 02



348 06



348 47



353 18



353 19



348 49



Technical characteristics (p. 291)

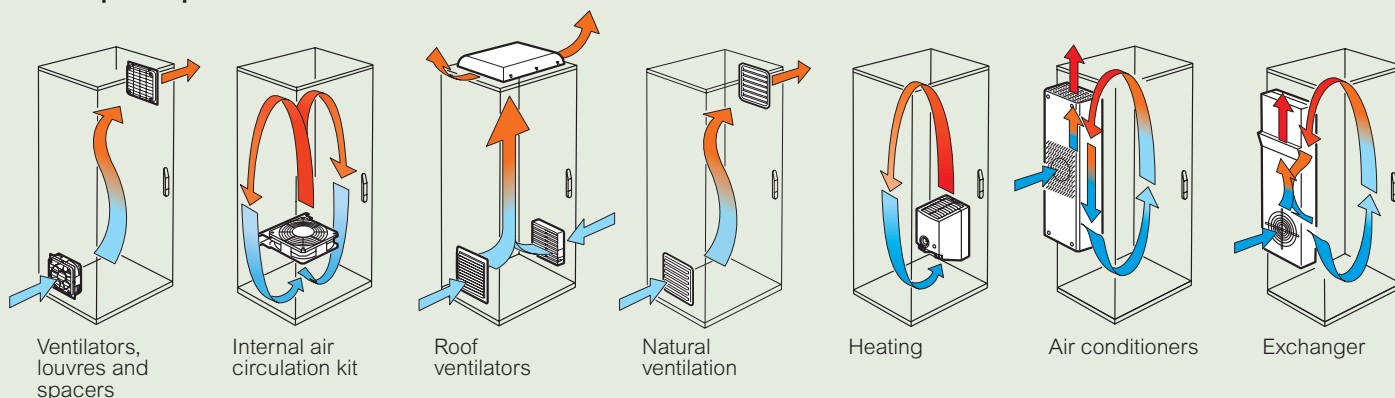
Pack	Cat.Nos	Heating
		Resistance heaters 110 V/240 V~ Class II □ IP 20 Prevent condensation forming inside the enclosure Heat dissipator in black aluminium oxide Supplied complete with cables 450 mm length Lighting functions: "PTC" auto-regulated Ensures security with limited temperature: t maxi: 70 °C Mounting on rail ⌋ connection on terminals
1	348 00	Power 20 W
1	348 01	60 W
1	348 02	120 W
1	348 06	Pulsated air 230 V~ 350 W Fan flow rate: 35 m³/hr Built-in temperature limiter Supplied with thermostat: 0 to 60 °C Operating LED Material: Polycarbonate UL 94 VO
1	348 47	Room thermostat Precision 0.5 °C (neutral connected) Switching and control range: 2 °C 12 at 250 V AC NO contact: 10 A; NC contact: 5 A Mounted on DIN rail. Can be set to between 5 and 60 °C with NC and NO contact
1	353 18	Hygrostat For adjusting the relative humidity inside a cabinet or an enclosure to avoid the formation of condensation by starting up a heater or a fan 230 V~ - 50/60 Hz Contact 5 A - 250 V~, 6 A - 24 V, 3 A - 12 V Colour RAL 7021 Rail mounting ⌋ Adjustable from 35 % to 100 % relative humidity

Pack	Cat.Nos	Heating (continued)
1	353 19	Humidithermostat For independent adjustment of the temperature and humidity level inside a cabinet or an enclosure, to avoid the formation of condensation by starting up a heater or a fan 230 V~ - 50/60 Hz Output relay 8 A - 250 V~, 5 A - 35 V Colour: RAL 7021 For fixing on rail ⌋ Adjustable from 0 °C to 60 °C and from 50 % to 90 % relative humidity
1	348 49	Door switch 6 A - 250 V 1 NC contact - 1 NO contact For example, to cut off the air conditioning and the lighting supply as soon as the enclosure or cabinet door is opened
1	363 13	Supplied complete with fixing lug for Altis For Atlantic cabinets

[illegible]

heat regulation for cabinets and enclosures

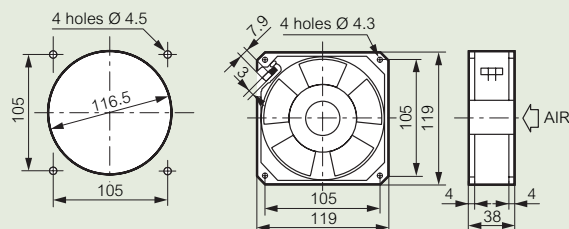
■ Principe of operation



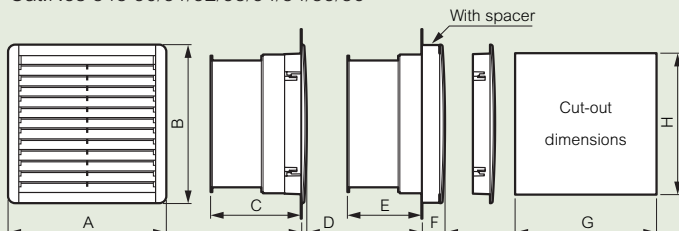
■ Ventilators, louvres and spacers

Dimensions and cut-out

Cat.Nos 365 71 and 348 17



Cat.Nos 348 50/51/52/53/54/34/35/36



Cat.Nos	A	B	C	D	E	F	G	H
348 50	150	150	70	7	43	34	125	125
348 51	250	250	105	8	78	35	223	223
348 52	250	250	123	8	96	35	223	223
348 53	325	325	152	10	125	37	291	291
348 54	325	325	115	10	88	37	291	291
348 34	150	150	-	7	-	34	125	125
348 35	250	250	-	8	-	35	223	223
348 36	325	325	-	10	-	37	291	291

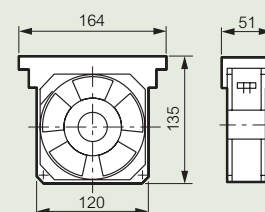
Technical characteristics

Cat.Nos	365 71/348 17	348 50	348 51	348 52	348 53	348 54
Voltage (V)/ phase	220-240/1	230/1	230/1	220-240/1	220-240/1	230/1
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
No load flow ventilator only (m³/h)	160	160	160	240	800	1000
On load flow						
- with an output louver (supplied)	30	40	100	170	360	520
Static pressure (mm of water)	100	66	51	111	160	186
Power down (W)	22	20	20	29	67	114
Current drawn (A)	0.14	0.125	0.125	0.426	0.3	0.5
Operating temperature	-10°C/+50°C					
IP/IK	32/10	54/08	54/08	54/08	54/08	54/08
Sound level (dB)	49	43	43	50	61	71
Weight (kg)	0.72	0.8	1.4	1.7	3.6	3.7

■ Internal air circulation kit

Dimensions

Cat.No 365 74



Technical characteristics

Cat.No	Circulation kit 50/60 Hz						
	Rated speed (rpm)	Max. flow rate (m³/hr)	Static pressure (mm of water)	Power drawn (W)	Current drawn (mA)	Operating temperature (°C)	Noise (dBA)
365 74	2750	160	10	18	135	- 10 / + 55	44

■ Roof ventilators

Technical characteristics

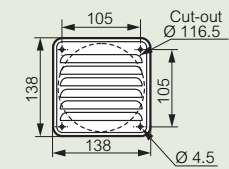
Cat.Nos	Max. flow rate (m³/hr)	Power drawn (W)	Current drawn (mA)	Operating temperature (°C)	Noise (dBA)	Weight (kg)
348 07	600	70	0.32	50	64	4.1
348 08	1000	180	0.5	50	72	4.3

heat regulation for cabinets and enclosures (continued)

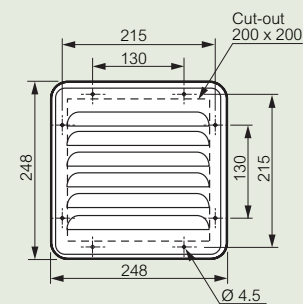
Natural ventilation

Dimensions and cut-out

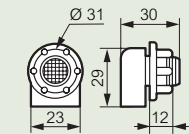
Cat.Nos 365 70 and 348 04



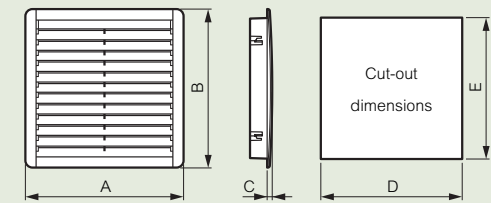
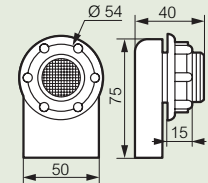
Cat.Nos 348 16 and 348 05



Cat.No 365 78



Cat.No 365 79

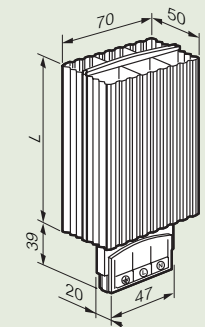


Cat.Nos	A	B	C	D	E
348 34	150	150	7	125	125
348 35	250	250	8	223	223
348 36	325	325	10	291	291

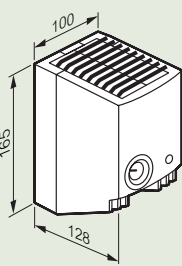
Heating

Dimensions

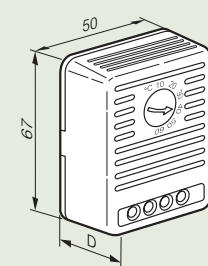
Cat.Nos 348 00/01/02



Cat.No 348 06



Cat.Nos 348 47 and 353 18/19



Cat.Nos	Power	L (mm)
348 00	20 W	80
348 01	60 W	140
348 02	120 W	220

Cat.Nos	D (mm)
348 47	34
353 18	38
353 19	43

Vertical installation at the bottom of the enclosure
Air circulation:
- ensure clearance > 50 mm all round the device
- do not cover

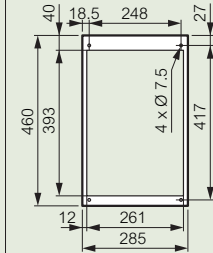
Technical characteristics

Cat.Nos	Voltage	Adjustment range	Output relay	Weight	Boxe	Colour
353 18	230 V~ 50/60 Hz	35 to 100 % rF	5 A - 250 V~ 30 W to 24 V=	100 gr.	ABS acc. UL94VO	RAL 7021
353 19	230 V~ 50/60 Hz	0 to 60 °C 50 to 90 % rF	5 A - 250 V~	100 gr.	ABS UL94VO	RAL 7021

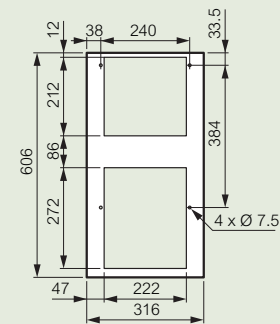
Air conditioners

Dimensions and cut-out

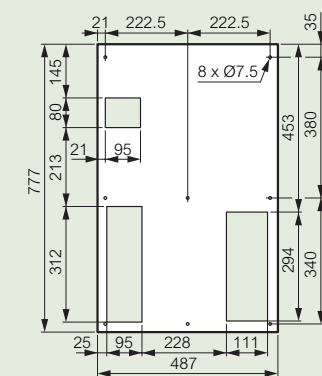
Cat.No 353 46



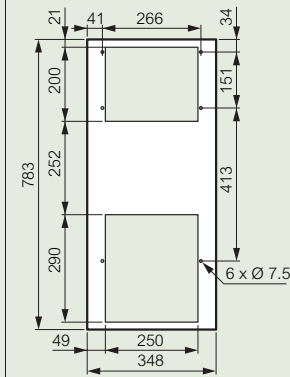
Cat.No 353 47



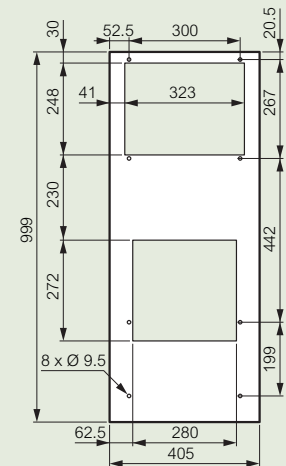
Cat.Nos 353 62/65



Cat.No 353 48



Cat.Nos 353 49/50/51/54/55



Air conditioners technical characteristics

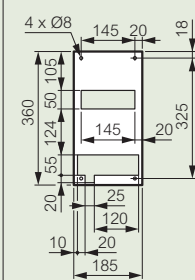
Vertical air - conditioners									
Cat.Nos	353 46	353 47	353 48	353 49	353 50	353 51	353 53	353 54	353 55
Cooling capacity (W): L35 L35 EN 814	380	640	820	1 250	1 600	2 000	3 850	1 600	2 000
L35 L50 EN 814	240	470	680	910	1 230	1 510	2 870	1 230	1 510
Voltage (V/phase)	230/1	230/1	230/1	230/1	230/1	230/1	230/1	400/2	400/3
Frequency (Hz)	50-60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power drawn (W)	330	470	490	760	940	1 290	1 990	960	1 150
Current drawn (A) operation	1.6	2.1	2.6	3.8	5.3	6.5	9.5	2.9	2.5
Current drawn (A) start-up	6	8.1	10.8	11	18	24	35.2	11	10
Flow rate of int. air circuit (m³/hr)	280	330	330	570	570	860	1 450	570	860
Flow rate of ext. air circuit (m³/hr)	280	570	570	860	1 050	1 050	1 450	1 050	1 450
Cooler load R 134a (kg)	0.11	0.2	0.14	0.38	0.45	0.42	1.05	0.45	0.59
Internal circuit IP	54	54	54	54	54	54	54	54	54
External circuit IP	20	20	20	20	20	20	20	20	20
Sound level (dB)	60	65	65	65	65	65	70	65	65
Dimensions: H x W x D (mm)	460 x 285 x 176	605 x 315 x 209	783 x 348 x 213	999 x 406 x 237	999 x 406 x 237	999 x 406 x 237	1 270 x 500 x 335	999 x 406 x 237	1 270 x 500 x 325
Weight (kg)	17	21	27	38	40	52	82	42	54

Roof air - conditioners							
Cat.Nos	353 58	353 59	353 60	353 62	353 63	353 64	353 65
Cooling capacity (W): L35 L35/EN 814	1 150	1 550	2 050	3 850	1 550	2 050	3 850
L35 L50/EN 814	900	1 200	1 560	2 870	1 200	1 560	2 870
Voltage (V/phase)	230/1	230/1	230/1	230/1	400/2	400/3	400/3
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power drawn (W)	660	930	1 300	1 950	940	1 190	1 890
Current drawn (A) during operation	3.2	4.5	6	9	2.8	1.9	3.4
Current drawn (A) during start-up	11	18	24	38.2	9.6	10	17
Flow rate of int. air circuit (m³/hr)	570	860	1 050	1 450	860	1 050	1 450
Flow rate of ext. air circuit (m³/hr)	1 010	1 820	1 820	3 410	1 820	1 820	3 410
Cooler load R 134a (kg)	0.63	0.8	1.05	1.18	0.8	0.55	1.6
Internal circuit IP	54	54	54	54	54	54	54
External circuit IP	20	20	20	20	20	20	20
Sound level (dB)	65	65	65	75	65	65	75
Dimensions: H x W x D (mm)	415 x 567 x 401	415 x 567 x 401	415 x 567 x 401	487 x 777 x 492	415 x 567 x 401	415 x 567 x 401	487 x 777 x 492
Weight (kg)	40	44	50	83	46	52	86

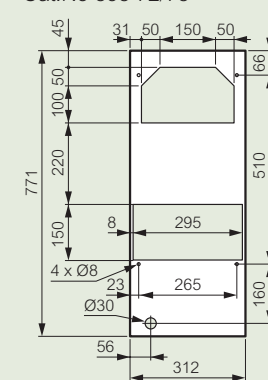
Exchangers

Dimensions

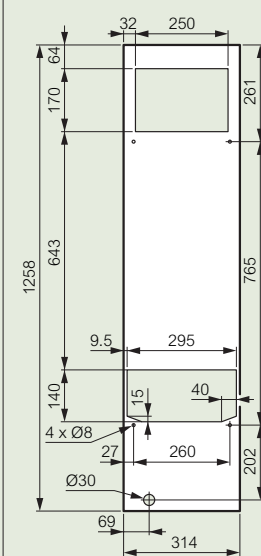
Cat.No 353 71



Cat.No 353 72/73



Cat.No 353 74



Technical characteristics

Exchangers air/air				
Cat.Nos	353 71	353 72	353 73	353 74
Specific power (W/°C)	14	36	50	80
Voltage (V)	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60
Power drawn (W)	72	140	140	240
Current drawn (A)	0.5	0.64	0.64	1.06
Flow rate of int. air circuit (m³/hr)	280	570	600	1 050
Flow rate of ext. air circuit (m³/hr)	280	570	600	1 050
Internal circuit IP	54	54	54	54
External circuit IP	20	20	20	20
Sound level (dB)	59	67	67	75
Dimensions: H x W x D (mm)	363 x 188 x 165	771 x 316 x 93	771 x 316 x 93	1 260 x 317 x 108
Weight (kg)	7	10	10	17

multi-entry plastic cable gland IP 66

NEW


Example of using a 980 50 multi-entry cable gland



980 50



980 57



980 60



Technical characteristics (p. 296)

Pack	Cat. No.	RAL 7001 grey cable gland			
		Multi-entry cable gland for temporary or permanent feedthrough of one or more cables without dismantling, or one or more cords after dismantling the seal only Mechanical anti-vibration clamping with neoprene seal for IP 66 weatherproofing Locking part consists of flexible blades exerting a strong pressure on the cable, giving the product excellent tensile strength Supplied with blanking plates fitted for unused entries O-ring joint and hex. nut fitted Polyamide			
		Thread	Clamping capacity (mm) Ø Min. Ø Max.		For cords with standard plug
10	980 49	ISO 25	3 x Ø3.5	3 x Ø6.5	RJ 45 on UTP cable
5	980 50	ISO 32	4 x Ø6.5	4 x Ø9.5	RJ 45 all cables
3	980 51	ISO 40	4 x Ø9.5	4 x Ø12.5	RJ 45 all CEE 22 cables

Pack	Cat. No.	Multi-cable and cord seals			
		Convert an IP 68 plastic cable gland to an IP 66 cable gland for multiple cables and cords Fitted in place of the sealing ring Supplied with blanking plates for unused entries Neoprene			
		For fitting in c. gland	Clamping capacity (mm) Ø Min. Ø Max.		For cords with standard plug
25	980 55	ISO 20 or PG 13.5	3 x Ø2	3 x Ø3.5	
25	980 56	ISO 25 or PG 21	3 x Ø3.5	3 x Ø6.5	RJ 45 on UTP cable
25	980 57	ISO 32 or PG 29	4 x Ø6.5	4 x Ø9.5	RJ 45 all cables
10	980 58	ISO 40 or PG 36	4 x Ø9.5	4 x Ø12.5	RJ 45 all CEE 22 cables
5	980 60	ISO 63 or PG 48	2 x Ø2 2 x Ø3.5 3 x Ø6.5	2 x Ø3.5 2 x Ø6.5 3 x Ø9.5	RJ 45 all 2P+E cables

Pack	Cat. No.	ASI joint	
25	980 54	Converts an IP 68 plastic cable gland to an IP 66 cable gland for ASI cable Fitted in place of the sealing ring For fitting in ISO 20 or PG 13.5 cable gland Neoprene	

plastic cable glands IP 68 ISO and PG



980 05



980 25



980 26



980 47



Technical characteristics (p. 296)
Agreements (p. 906)

Anti-vibration mechanically tightened cable gland with neoprene weatherproof seal for IP 68 protection
Locking part consisting of flexible blades which exert strong pressure on the cable thus giving the product excellent tensile strength
Supplied with surface seal and locking nut mounted Polyamide

Pack	Cat. Nos	Grey RAL 7001 cable glands			
		ISO Conform to EN 50 262			
		ISO	Clamping capacity (mm)		
			Min.	Max.	
25	980 00	12	3	6.5	
25	980 01	16	4	8	
25	980 03	20	6	12	
10	980 05	25	12	18	
5	980 06	32	18	25	
3	980 07	40	22	32	
2	980 08	50	30	38	
2	980 09	63	34	44	
		PG Conform to guide recommendation UTE C 68-300 and 68-311			
		PG	Clamping capacity (mm)		
			Min.	Max.	
25	980 20	7	3	6.5	
25	980 21	9	4	8	
25	980 22	11	5	10	
25	980 23	13.5	6	12	
20	980 24	16	10	14	
10	980 25	21	12	18	
5	980 26	29	18	25	
3	980 27	36	22	32	
2	980 28	42	30	38	
2	980 29	48	34	44	

Pack	Cat. Nos	Locking nuts	
		Black RAL 9011 Hexagonal with base for protecting the enclosure surface when tightening Polyamide reinforced fiber glass	
		ISO	
50	979 41	16	
50	979 43	20	

Pack	Cat. Nos	Grey RAL 7001 stopping plugs - ISO	
		Hexagonal plug with gasket and equipped with skirt for protecting the surface of the enclosure when fitting Tighten using Allen key, flat screwdriver	
50	980 41	16	
50	980 43	20	
50	980 45	25	
25	980 46	32	
25	980 47	40	

plastic cable glands IP 55

ISO and PG



979 33



980 16



980 66



955 71



955 52



955 76



957 06



Technical characteristics (p. 297)



Technical characteristics (p. 298)

Grey RAL 7035 cable glands

Compact with clamping cap with knock-out opening can be blanked with plug polyamide, rubber seal

ISO

Conform to EN 50 262

		Clamping capacity (mm)	
		Min.	Max.
50	979 31	16	6
50	979 33	20	9
50	979 34	20	12
50	979 34	20	14

PG

Conform to guide recommendation UTE C 68-300 and 68-312

		Clamping capacity (mm)	
		Min.	Max.
50	980 10	7	3
50	980 11	9	5
50	980 12	11	7
50	980 13	13	9
50	980 14	16	10
50	980 15	21	12
50	980 15	21	14
50	980 15	21	18
10	980 16	29	16
10	980 17	36	22
10	980 18	42	30
10	980 18	42	35
10	980 19	48	31
10	980 19	48	40

Locking nuts

Black RAL 9011 - ISO

Hexagonal with base for protecting the enclosure surface when tightening
Polyamide reinforced glass fiber

ISO

50	979 41	16
50	979 43	20

Grey RAL 7035 - PG

12 side nuts - Polycarbonate

PG

50	980 30	7
50	980 31	9
50	980 32	11
50	980 33	13
50	980 34	16
50	980 35	21
10	980 36	29
10	980 37	36
10	980 38	42
10	980 39	48

Grey RAL 7035 stopping plugs

PG

50	980 61	9
50	980 62	11
50	980 63	13
50	980 64	16
50	980 65	21
10	980 66	29

For cable glands - ISO

Locked by direct mounting on IP 55 ISO cable gland in place of the cable gland retaining cap

50	980 61	For Cat.No 979 31
50	980 63	For Cat.No 979 33
50	980 64	For Cat.No 979 34

nickel plated brass cable glands IP 65

ISO and PG



Technical characteristics (p. 298)

Nickel plated brass cable glands

Supplied with surface seal and hexagonal nut mounted

ISO

Conform to EN 50 262

		Clamping capacity (mm)	
		Min.	Max.
20	955 70	16	4
20	955 71	20	9.5
10	955 72	25	4
5	955 73	32	15
5	955 73	32	14
5	955 73	32	20

PG

Conform to guide recommendation UTE C 68-300 and 68-312

		Clamping capacity (mm)	
		Min.	Max.
20	955 50	9	2
20	955 51	11	9
20	955 52	13	4
20	955 53	16	11
10	955 54	21	4.5
10	955 55	29	12
10	955 55	29	14.5
10	955 55	29	19
10	955 55	29	27

Stopping plugs

Supplied with surface seal and hexagonal nut mounted
Tightening with flat screwdriver
Nickel plated brass

ISO

20	955 75	16
20	955 76	20
10	955 77	25
10	955 78	32

PG

20	957 04	9
20	957 05	11
20	957 06	13
20	957 33	16

multi-entry plastic cable glands IP 66

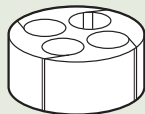
plastic cable glands IP 68

Multi-entry cable plastic glands and seals

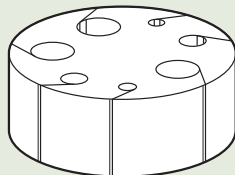
3 inputs
Cat.Nos 980 55/56



4 inputs
Cat.Nos 980 57/58



7 inputs
Cat.No 980 60



ASI seal
Cat.No 980 54



Cat.Nos	Threading	internal Ø for cables (mm)
980 03/23	ISO 20 - PG 13.5	12.5
980 05/25/49	ISO 25 - PG 21	18.5
980 06/26/50	ISO 32 - PG 29	25.5
980 07/27/51	ISO 40 - PG 36	32.5
980 09/29	ISO 63 - PG 48	44.5

Grey RAL 7001 cable glands

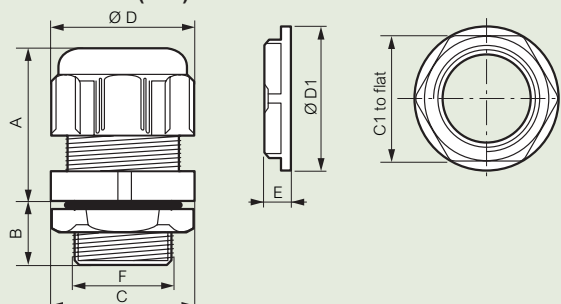
Characteristics

Halogen-free polyamide UL 94-V2

Operating temperature: - 20 °C to + 80 °C

Self-extinguishing 960°C according to IEC 60695-2-11

Dimensions (mm)



ISO

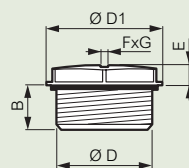
Cat.Nos	Threading	A	B	Ø D	C (to flat)	F	Drilling Ø	C1	E	Ø D1
980 00	ISO 12	22	10	16.8	15	11.9	12.7	19	5	21
980 01	ISO 16	26	10	21	19	15.9	16.2	22	5	24
980 03	ISO 20	29	12	26.5	24	19.8	20.4	26	6	28
980 05/49	ISO 25	35	15	36	33	24.8	25.4	32	6	35
980 06/50	ISO 32	40	15	46.5	42	31.6	32.5	42	7	43
980 07/51	ISO 40	49	17	58.5	53	39.9	40.5	50	7	56
980 08	ISO 50	54	17	66.5	60	50	50.8	60	8	66
980 09	ISO 63	54	18	75	68	62.9	64	75	8	82

PG

Cat.Nos	Threading	A	B	Ø D	C (to flat)	F	Drilling Ø	C1	E	Ø D1
980 20	PG 7	22	10	16.8	15	12.5	12.7	19	5	21
980 21	PG 9	26	10	21	19	15.2	15.2	22	5	24
980 22	PG 11	27	12	24.5	22	18.6	18.6	24	5	26
980 23	PG 13.5	29	12	26.5	24	20.4	20.4	26	6	28
980 24	PG 16	30	13	29.5	27	22.5	22.5	32	6	35
980 25	PG 21	35	15	36	33	28.3	28.3	36	7	38
980 26	PG 29	40	15	46.5	42	37	37	46	7	51
980 27	PG 36	49	17	58.5	53	47	47	60	8	66
980 28	PG 42	54	17	66.5	60	54	54	70	8	78
980 29	PG 48	54	18	75	68	60	60	75	8	82

Grey RAL 7001 stopping plugs

Dimensions (mm)



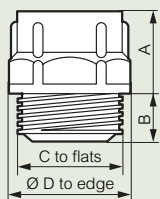
Cat.Nos ISO	Threading	Ø D	D1	F x G	B	E
980 41	ISO 16	15.8	20.5	8 x 2	12	3.9
980 43	ISO 20	19.8	25	8 x 2	12	3.8
980 45	ISO 25	24.8	30.5	8 x 2	12	4.4
980 46	ISO 32	31.8	38	8 x 2	12	4.9
980 47	ISO 40	39.8	46.5	8 x 2	12.5	4.9

plastic cable glands IP 55

nickel plated brass cable glands IP 65

■ RAL 7035 cable glands

Dimensions (mm)



ISO

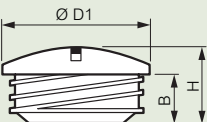
Cat.Nos	Threading ISO	Body (mm)					Ø Drilling smooth hole
		Ø D to edge	C to flat	A	B		
979 31	16	21	19	11.5	7		15.2
979 33	20	26.5	24	13	9		20.4
979 34	20	29.75	27	13.5	9		20.4

PG

Cat.Nos	Threading PG	Body (mm)					Ø Drilling smooth hole
		Ø D to edge	C to flat	A	B		
980 10	7	16.6	15	11	6.5		12.7
980 11	9	21	19	11.5	7		15.2
980 12	11	24	22	12	8		18.6
980 13	13	26.5	24	13	9		20.4
980 14	16	29.75	27	13.5	9		22.5
980 15	21	35.25	32	16.5	10		28.3
980 16	29	45	41	18.5	12		37
980 17	36	60	55	21.5	14		47
980 18	42	65.5	60	22	16		54
980 19	48	71	65	23	16		60

■ RAL 7035 stopping plugs

Dimensions (mm)

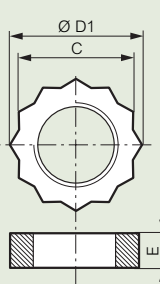


PG

Cat.Nos	Threading	Ø D1 (mm)	B (mm)	H (mm)
980 61	PG 9	19	6.5	—
980 62	PG 11	22	6.5	10
980 63	PG 13	25.5	6.5	10
980 64	PG 16	27	6.5	10
980 65	PG 21	34	8	11.5
980 66	PG 29	44	8	12

■ Locking nuts

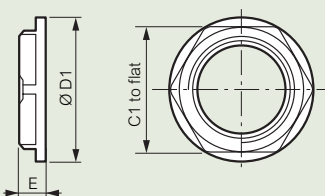
Dimensions (mm) RAL 7035



PG

Cat.Nos	Threading	C to flat	E (mm)	Ø D1 (mm)
980 30	PG 7	15	4.5	17.3
980 31	PG 9	19	4.5	21.9
980 32	PG 11	22	5	25.4
980 33	PG 13	24	5.5	27.7
980 34	PG 16	27	6	31.1
980 35	PG 21	32	6.5	36.9
980 36	PG 29	41	7.5	47.3
980 37	PG 36	54	8.5	62.4
980 38	PG 42	60	9	69.3
980 39	PG 48	67	9.5	77.4

Dimensions (mm) RAL 9011



ISO

Cat.Nos	Threading	C1 to flat	E	Ø D1
979 41	ISO 16	22	5	24
979 43	ISO 20	26	6	28

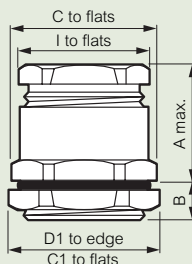
■ Characteristics

Operating temperature: – 15 °C to + 60 °C

Cable gland and plug material : nickel-plated brass CuZn 40 Pb
3 zinc-plated steel grain

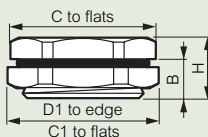
Natural rubber peelable ring Shore 60 for adapting to exact diameter of cable used

■ Dimensions (mm)



Cat.Nos	Threading	Height				B	A max.	Ø Drilling smooth hole
		I to flat	C to flat	C1 to flat	D1 to flat			
ISO								
955 70	16	15	17	20	22.2	7	25	16.5
955 71	20	18	20	24	26.7	7	25	20.5
955 72	25	22	26	30	33.5	8	29	25.5
955 73	32	28	32	35	38.5	8.5	32	32.5
PG								
955 50	09	15	17	19	21.1	6	17.5	15.2
955 51	11	18	20	21	23.5	6	17.5	18.6
955 52	13	20	22	23	25.5	6.5	18.5	20.4
955 53	16	22	24	26	29	6.5	20.5	22.5
955 54	21	28	30	32	35.5	7	23	28.3
955 55	29	37	40	41	45	8	25	37

Stopping plugs



Cat.Nos	Threading	C	C1	D1	B	H
ISO						
955 75	16	17	20	22.2	7	10
955 76	20	23	24	26.7	7	10
955 77	25	29	30	33.5	8	11.5
955 78	32	29	35	38.5	8.5	12.5
PG						
957 04	09	17	19	21.1	6	9
957 05	11	19	21	23.5	6	9
957 06	13	21	23	25.5	6.5	9.5
957 33	16	23	26	29	6.5	9.5

RTA flexible conduits

For each application and environmental stress there is a corresponding polyamide, PVC or metal-plastic flexible conduit solution, ideal for a wide range of sectors

Composition of the systems

SFP POLYAMIDE SYSTEM:

Particularly suitable for environments where flexibility is required

- Provides a high degree of resistance to:
 - Dynamic stress (movement)
 - Mechanical stress (impact)
 - Environmental stresses (splashes of chemical agents, weatherproofing)
 - Low temperatures (- 45°C)
- System consisting of 3 types of conduit with connectors and junctions
- Suitable, for example, for mobile equipment, machinery or robotics, etc.

PVC SYSTEM

Particularly suitable for environments where excellent resistance to external agents is required: oils, diluted acids, sparks

- Provides a high degree of resistance to:
 - Mechanical stresses (impact and compression)
 - Environmental stresses (splashes)
- System consisting of 2 types of conduit with connectors.
- Suitable, for example, for machining centres, welding shops, etc

METAL-PLASTIC SYSTEM

Particularly suitable for environments where strength is required

- Provides a high degree of resistance to:
 - Mechanical stresses (impact and compression)
 - Tensile and torsional stresses
- System consisting of 3 types of conduit with connectors
- Suitable, for example, for machines in severe mechanical environments

How to select your conduit

RTA flexible conduits are chosen according to the mechanical, dynamic and environmental stresses

The classification in standard EN 50086-1

can be used to define the mechanical and thermal characteristics of a product using 4 digits

1st digit	2nd digit	3rd digit	4th digit
Compressive strength	Impact strength	Minimum temperature	Maximum temperature
1 = 125 N (very low)	1 = 0.5 J (very low)	1 = + 5°C	1 = + 60°C
2 = 320 N (low)	2 = 1 J (low)	2 = - 5°C	2 = + 90°C
3 = 750 N (average)	3 = 2 J (average)	3 = - 15°C	3 = + 150°C
4 = 1250 N (high)	4 = 6 J (high)	4 = - 25°C	4 = + 120°C
5 = 4000 N (very high)	5 = 20 J (very high)	5 = - 45°C	5 = + 150°C
			6 = + 250°C
			7 = + 400°C

		DYNAMIC STRESSES	Classification acc. to EN 50086-1	MECHANICAL STRESSES	ENVIRONMENTAL STRESSES				Conformity to requirements of standards	
		Movement		Compression	Impact	Cold	Heat	Splashes	Weatherproof	
POLYAMIDE	SFP standard	■■■	2223 ⁽¹⁾ 2443	■	■ ⁽¹⁾ ■■■	■ ⁽¹⁾ ■■	■■	■■	IP66 without seal IP68 with seal	EN 50086-1 EN 61386-1 NF R 13-903 ⁽²⁾
	SFP robotic	■■■	1142 ⁽¹⁾ 1452	■	■ ⁽¹⁾ ■■■	■■■	■	■■	IP66 without seal IP68 with seal	EN 50086-1 EN 61386-1
	SFP TR	■■■	2443	■	■■■	■■■	■■	■■■	IP66 without seal IP68 with seal	EN 50086-1 EN 61386-1
PVC	GE-PVC	■■	-	■	■	■	■	■■	IP65 ⁽³⁾	
	FP 2000	■	2311	■■	■■	■	■	■■	IP44 ⁽³⁾ IP66 ⁽⁴⁾	EN 50086-1 EN 61386-1
METAL-PLASTIC	FA	■■	3331	■■	■■	■■	■	■	IP65 ⁽⁴⁾	EN 50086-1 EN 61386-1
	PN	■	3331	■■	■■	■■	■	■■	IP65 ⁽⁴⁾	EN 50086-1 EN 61386-1
	P2	■	4431	■■■	■■■	■■	■	■■	IP65 ⁽⁴⁾	EN 50086-1 EN 61386-1 UL 224

■■■ Very good resistance
■■ Good resistance
■ Limited resistance

(1) Outer diameter <12 mm - (2) Pending - (3) With universale connector - (4) With Metal 2000 connector

SFP polyamide rta flexible conduits

NEW



637 05



637 24



637 34



638 93



Technical characteristics (p. 302)

Protect electrical cables in an environment requiring excellent flexibility
Very good resistance to impacts, chemical agents, and to high and low temperatures
Conform to standard EN 50086-1
IP 66, IP 68 with weatherproof seal
Halogen-free polyamide

Pack	Cat.Nos	Standard	
		Black spiral PA 6.6 conduit Suitable for the majority of applications for constructing machines and installations Conform to standard NF R 13-903	
		Ø (mm)	
		internal	external
50 ⁽¹⁾	637 01	7	10
50 ⁽¹⁾	637 02	8	12
50 ⁽¹⁾	637 03	12	16
50 ⁽¹⁾	637 04	15	20
50 ⁽¹⁾	637 05	19	25
25 ⁽¹⁾	637 06	25	32
25 ⁽¹⁾	637 07	33	40
25 ⁽¹⁾	637 08	42	50

Pack	Cat.Nos	TR protection rings
		Fitted on the ends of the metal braid on the SFP TR conduit
		External Ø (mm) conduit with braid
25	638 92	14.5
25	638 93	18.5
25	638 94	22.5
10	638 95	27.5
10	638 96	34.5
10	638 97	44.5
5	638 98	52.5

		Robotic	
		Black spiral PA 12 conduit High level of flexibility and resistance for dynamic applications and alternating movement, even at low temperature	
		Ø (mm)	
		internal	external
50 ⁽¹⁾	637 21	7	10
50 ⁽¹⁾	637 22	8	12
50 ⁽¹⁾	637 23	12	16
50 ⁽¹⁾	637 24	15	20
50 ⁽¹⁾	637 25	19	25
25 ⁽¹⁾	637 26	25	32
25 ⁽¹⁾	637 27	33	40
25 ⁽¹⁾	637 28	42	50

		TR	
		Spiral PA 6.6 conduit covered with a metal braid Suitable for harsh conditions with risk of splashing (chips, solder splashes, etc)	
		Ø (mm)	
		internal	external ⁽²⁾
50 ⁽¹⁾	637 32	8	12 / 14.5
50 ⁽¹⁾	637 33	12	16 / 18.5
50 ⁽¹⁾	637 34	15	20 / 22.5
50 ⁽¹⁾	637 35	19	25 / 27.5
25 ⁽¹⁾	637 36	25	32 / 34.5
25 ⁽¹⁾	637 37	33	40 / 44.5
25 ⁽¹⁾	637 38	42	50 / 52.5

(1) Number of meters in pack
(2) Only polyamide conduit / conduit with braid

SFP polyamide rta flexible conduits

connectors and junctions, accessories

NEW



637 55



637 85



638 09



638 10



638 65



638 74



Example of associated bases



979 45

Pack	Cat.Nos		Connectors and junctions	
			Provide excellent tensile strength in static and dynamic applications No tools needed when used with SFP standard, robotic and TR polyamide conduits Conduit inserted directly, clamped by simply pulling the ring, locked with a 1/4 turn with closing indication IP 66, IP 68 with weatherproof seal Supplied in a sachet Black halogen-free PA 6.6	
			Straight and right-angled male connectors	
			External Ø (mm) polyamide conduit	Thread
			10	ISO 12
			12	ISO 16
			16	ISO 16
			16	ISO 20
			20	ISO 20
			20	ISO 25
			25	ISO 25
			32	ISO 32
			40	ISO 40
			50	ISO 50
			10	PG 7
			10	PG 9
			12	PG 7
			12	PG 9
			12	PG 11
			16	PG 11
			16	PG 13.5
			20	PG 13.5
			20	PG 16
			25	PG 16
			25	PG 21
			32	PG 29
			40	PG 36
			50	PG 42
			50	PG 48
			Right-angled base connectors	
			Supplied with joint surface	
			External Ø (mm) polyamide conduit:	
			40	
			50	
			Y junctions	
			External Ø (mm) polyamide conduit ⁽¹⁾ :	
			12 / 10 - 10	
			16 / 12 - 12	
			20 / 12 - 12	
			20 / 16 - 16	
			25 / 20 - 20	

Pack	Cat.Nos		Accessories	
			IP 68 weatherproof seals	
			Fitted at the ends of the conduit to obtain IP 68 with the connectors and junctions Supplied in a sachet	
			External Ø (mm) polyamide conduit:	
			10	
			12	
			16	
			20	
			25	
			32	
			40	
			50	
			Snap-fixing bases	
			Accessory for holding SFP standard and robotic polyamide conduits Fixed with screws (not supplied) Conduit simply clipped in place and closed with a cover Bases can be used with clips supplied Supplied in a sachet Black PA 6.6	
			External Ø (mm) conduit:	
			10	
			12	
			16	
			20	
			25	
			32	
			40	
			50	
			Nuts	
			Hexagonal with conduit support in order to protect the casing surface when tightening Black reinforced fibreglass PA 6	
			ISO 12	
			ISO 16	
			ISO 20	
			ISO 25	
			ISO 32	
			ISO 40	
			ISO 50	
			ISO 63	
			PG 7	
			PG 9	
			PG 11	
			PG 13.5	
			PG 16	
			PG 21	
			PG 29	
			PG 36	
			PG 42	
			PG 48	

(1) Arrival/departures

Red catalogue numbers: New products

SFP polyamide rta flexible conduits

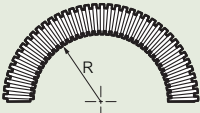
Characteristics

SFP polyamide conduit		Standard	Robotics	TR
Materials ⁽¹⁾		PA 6.6	PA 12	PA 6.6 + zinc-plated steel
Classification acc. to EN 50086-1	ext. diam. ≤12 mm	2 2 2 3	1 1 4 2	2 4 4 3
	ext. diam. > 12 mm	2 4 4 3	1 4 5 2	
Compressive strength		320 N	125 N	320 N
Impact strength	ext. diam. ≤12 mm	IK 06 (1 joule)	IK 04 (0.5 joule)	IK 08 (6 joules)
	ext. diam. > 12 mm	IK 08 (6 joules)	IK 08 (6 joules)	
Operating temperatures ⁽²⁾	min.	- 25 °C	- 45 °C	- 25 °C
	max.	+ 105 °C	+ 90 °C	+ 105 °C
Protection acc. to IEC EN 50086-1		IP 66/IP 68 (with seal)		
Held the U.V.		500 h	500 h	> 500 h
Self-extinguishing acc. to EN 50086-1		Flame-retardant		
Self-extinguishing ⁽³⁾ acc. to IEC EN 60695-2-11			750 °C	
Resistance to the main chemical agents	Lead-free petrol	***	***	***
	Dilute industrial detergents	***	***	***
	Diesel	***	**	***
	Lubricating oils	***	***	***
	Dilute acids	*	*	-
	Dilute alkaline solutions	***	***	***
Cleaning solvents		***	***	***

(1) Halogen-free materials
(2) Min. - 45 °C, max. + 105 °C for connectors and junctions
(3) 850 °C for connectors and junctions

*** Very good
** Good
* Limited

Conduit bending radius

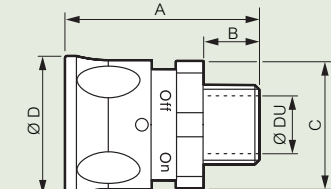


Cat.Nos	int. Ø (mm)	R min. (mm) ⁽¹⁾			
		Standard	Robotic	TR	
637 01/21	7	18	16	-	
637 02/22/32	8	20	18	23	
637 03/23/33	12	25	22	25	
637 04/24/34	15	30	27	30	
637 05/25/35	19.5	40	36	40	
637 06/26/36	25.5	50	45	55	
637 07/27/37	33	60	54	70	
637 08/28/38	42	70	63	110	

(1) Indicative dimensions

Dimensions

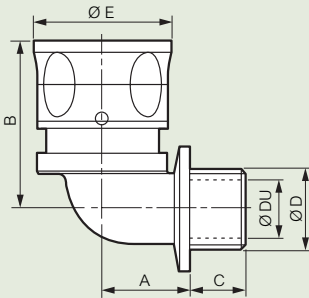
Straight male connectors



Cat.Nos	Thread	Dimensions (mm)				
		Ø DU	A	B	C (across flat)	Ø D
637 50	ISO 12	7	41.5	10	22	24
637 51	ISO 16	9	41.5	10	24	26
637 52	ISO 16	11	46	12	28	30.5
637 53	ISO 20	12.5	46	12	28	30.5
637 54	ISO 20	14.5	49	14	32	34.5
637 55	ISO 25	15.5	49	14	32	34.5
637 56	ISO 25	19	52	14	38	39.5
637 57	ISO 32	26	56	14	45	47
637 58	ISO 40	33.4	59	14	54	55
637 59	ISO 50	42.8	66	16	64	65

Cat.Nos	Thread	Dimensions (mm)				
		Ø DU	A	B	C (across flat)	Ø D
637 60	PG 7	7	41.5	10	22	24
637 61	PG 9	7	41.5	10	22	24
637 63	PG 7	8	41.5	10	24	26
637 64	PG 9	9	41.5	10	24	26
637 65	PG 11	9	41.5	10	24	26
637 67	PG 11	12.5	46	12	28	30.5
637 68	PG 13.5	12.5	46	12	28	30.5
637 70	PG 13.5	15.5	49	14	32	34.5
637 71	PG 16	15.5	49	14	32	34.5
637 72	PG 16	17.5	52	14	38	39.5
637 73	PG 21	19	52	14	38	39.5
637 74	PG 29	26	56	14	45	47
637 75	PG 36	33.4	59	14	54	55
637 76	PG 42	42.8	66	16	64	65
637 77	PG 48	42.8	66	16	64	65

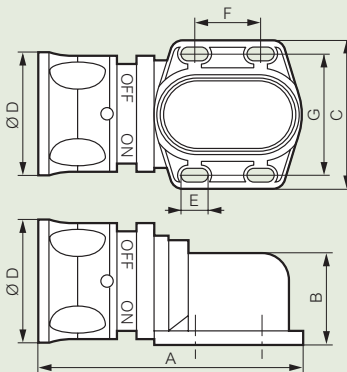
Right-angled male connectors 90°



Cat.Nos	Thread	Dimensions (mm)					
		Ø DU	A	B	C	Ø D	Ø E
637 80	ISO 12	7	16	33.5	10	17.5	24
637 81	ISO 16	8.2	17	34	10	21	26
637 82	ISO 16	10.4	19.5	39.5	12	26	30.5
637 83	ISO 20	10.4	19.5	39.5	12	26	30.5
637 84	ISO 20	13.8	22	41.5	14	31	34.5
637 85	ISO 25	13.8	22	41.5	14	31	34.5
637 86	ISO 25	16.9	25	48	14	34	39.5
637 87	ISO 32	25.3	28.5	58.5	14	43	47

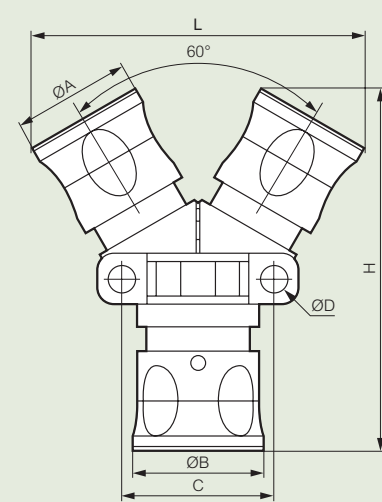
Cat.Nos	Thread	Dimensions (mm)					
		Ø DU	A	B	C	Ø D	Ø E
637 90	PG 7	7	16	33.5	10	17.5	24
637 91	PG 7	8.2	17	34	10	21	26
637 92	PG 9	8.2	17	34	10	21	26
637 93	PG 11	10.4	19.5	39.5	12	26	30.5
637 94	PG 13.5	10.4	19.5	39.5	12	26	30.5
637 95	PG 13.5	13.8	22	41.5	14	31	34.5
637 96	PG 16	13.8	22	41.5	14	31	34.5
637 97	PG 16	16.9	25	48	14	34	39.5
637 98	PG 21	16.9	25	48	14	34	39.5
637 99	PG 29	25.3	28.5	58.5	14	43	47

Right-angled base connectors 90°



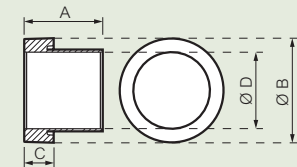
Cat.Nos	Dimensions (mm)						
	A	B	C	Ø D	E	F	G
638 08	130	60	89	47	13	43	75
638 09	155	60	89	55	13	43	75

Y junctions



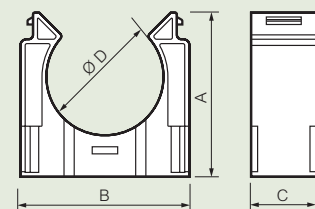
Cat.Nos	Dimensions (mm)						
	H	L	Depth	Ø A	Ø B	C	Ø D
638 10	70	65	32	26	24	30	5.5
638 12	77	70	32	30.5	26	30	5.5
638 14	82	72	41	34.5	26	30	6.5
638 16	86	81	41	34.5	30.5	42	6.5
638 18	92	86	41	39.5	34.5	42	6.5

IP 68 weatherproof seal



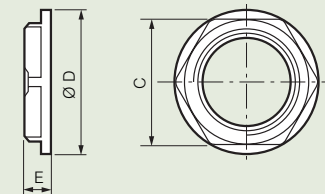
Cat.Nos	Dimensions (mm)			
	A	Ø B	C	Ø D
638 01	10	9.7	3.5	5.4
638 02	10	11.7	3.5	7.4
638 03	11	15.6	3.5	11.4
638 04	15	19.8	5	14.1
638 05	18	24.9	7	17.6
638 06	23	31.9	9	23.4
638 07	24.5	39.9	9	31.4
638 08	27.5	49.9	10	40.1

Snap-fixing base



Cat.Nos	Dimensions (mm)			
	A	B	C	Ø D
638 71	21.5	22.5	18	10
638 72	24.5	23.5	18	12
638 73	28.5	26	18	16
638 74	32.5	32	18	20
638 75	39	38	18	25
638 76	45	46.5	18	32
638 77	53.5	53.5	18	40
638 78	61	63	18	50

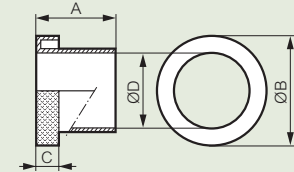
Nuts



Cat.Nos	Thread	Dimensions (mm)		
		C	E	Ø D
979 40	ISO 12	19	5	21
979 41	ISO 16	22	5	24
979 43	ISO 20	26	6	28
979 45	ISO 25	32	6	35
979 46	ISO 32	41	7	43
979 47	ISO 40	50	7	56
979 48	ISO 50	60	8	66
979 49	ISO 63	75	8	82

Cat.Nos	Thread	Dimensions (mm)		
		C	E	Ø D
979 50	PG 7	19	5	21
979 51	PG 9	22	5	24
979 52	PG 11	24	5	26
979 53	PG 13.5	26	6	28
979 54	PG 16	32	6	35
979 55	PG 21	36	7	38
979 56	PG 29	46	7	51
979 57	PG 36	60	8	66
979 58	PG 42	70	8	76
979 59	PG 48	75	8	81

TR protection rings



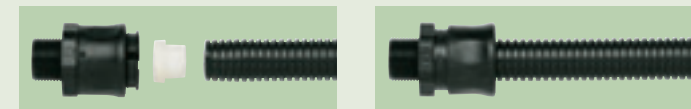
Cat.Nos	Dimensions (mm)			
	A	Ø B	C	Ø D
637 32	21	19.7	6	12
637 33	21	24.8	6	16
637 34	21	28.8	6	20
637 35	21	34.6	8	25
637 36	21	42	8	32
637 37	21	50	10	40
637 38	21	61	10	50

Installation

Assembling the SFP polyamide rta connector



Assembling the weatherproof seal



Assembling the TR protection ring





635 05



635 25



635 45



635 51



635 62



Technical characteristics (p. 306)

Protect electrical cables in a harsh environment requiring good resistance to oils and dilute acids

Excellent flexibility

FP 2000 PVC and metalloplastic conduits conforming to standard EN 50086-1

P2 metalloplastic conduits conforming to standard UL 224

Pack	Cat.Nos	PVC
GE - PVC		
Simple conduit in grey smooth PVC		
IP 65 with Universale connectors		
Ø (mm)		
		internal external
50 ⁽¹⁾	635 01	10 14
50 ⁽¹⁾	635 02	12 16
50 ⁽¹⁾	635 03	15.5 20.5
50 ⁽¹⁾	635 04	20.5 26.5
25 ⁽¹⁾	635 05	27 33.5
25 ⁽¹⁾	635 06	34.5 41.5
25 ⁽¹⁾	635 07	39.5 47.5
25 ⁽¹⁾	635 09	51 61
FP 2000		
Conduit in grey PVC with reinforcement		
Smooth interior allows cables to slide through easily		
Ensures excellent mechanical resistance		
IP 44 with Universale connectors		
IP 66 with Metal 2000 connectors		
Ø (mm)		
		internal external
50 ⁽¹⁾	635 21	10 15.5
50 ⁽¹⁾	635 22	12.5 17.5
50 ⁽¹⁾	635 23	16 21
50 ⁽¹⁾	635 24	21 26
25 ⁽¹⁾	635 25	27 33.5
25 ⁽¹⁾	635 26	35.5 42.5
25 ⁽¹⁾	635 27	40.5 48.5
25 ⁽¹⁾	635 29	52 60.5

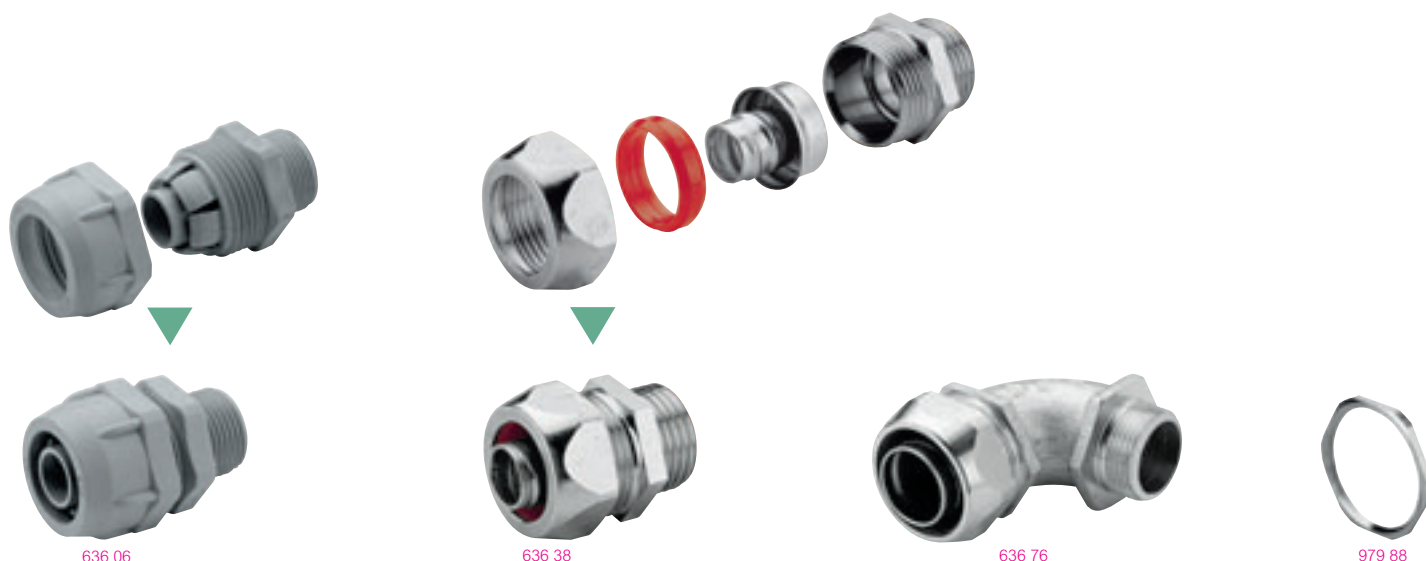
Pack	Cat.Nos	Metalloplastic
Excellent mechanical resistance		
Electrical continuity guaranteed with Metal 2000 connectors		
IP 65 with Metal 2000 connectors		
FA		
Single seam connection steel conduit,		
coated with aspirated grey PVC		
Ø (mm)		
		internal external
50 ⁽¹⁾	635 41	10 14
50 ⁽¹⁾	635 42	12 15.5
50 ⁽¹⁾	635 43	15.5 19.5
50 ⁽¹⁾	635 44	20.5 24.5
25 ⁽¹⁾	635 45	26.5 31.5
25 ⁽¹⁾	635 46	34.5 40
25 ⁽¹⁾	635 47	39.5 45
25 ⁽¹⁾	635 49	50.5 56
PN		
Single seam connection steel conduit,		
coated with smooth grey PVC		
Excellent resistance to wear and abrasion		
Ø (mm)		
		internal external
50 ⁽¹⁾	635 51	10 15.5
50 ⁽¹⁾	635 52	12 18
50 ⁽¹⁾	635 53	15.5 21.5
50 ⁽¹⁾	635 54	20.5 27
25 ⁽¹⁾	635 55	26.5 34
25 ⁽¹⁾	635 56	34.5 42.5
25 ⁽¹⁾	635 57	39.5 48.5
25 ⁽¹⁾	635 59	50.5 61
P2		
Double seam connection steel conduit,		
coated with grey smooth PVC		
Enhanced mechanical resistance to tensile and torsional stress		
Ø (mm)		
		internal external
50 ⁽¹⁾	635 61	10 15.5
50 ⁽¹⁾	635 62	12 18
50 ⁽¹⁾	635 63	15.5 21.5
50 ⁽¹⁾	635 64	20.5 27
25 ⁽¹⁾	635 65	26.5 33.5
25 ⁽¹⁾	635 66	34.5 42.5
25 ⁽¹⁾	635 67	39.5 48
25 ⁽¹⁾	635 69	50.5 60

(1) Number of meters in pack

Red catalogue numbers: New products

PVC and metalloplastic rta flexible conduits connectors

NEW



Pack	Cat.Nos	Connectors for PVC conduits		
		Universale straight male connectors		
		IP 65 with GE-PVC conduit		
		IP 44 with FP 2000 conduit		
		Supplied in a sachet		
		Grey reinforced fibreglass PA 6		
		Ø conduit (mm)		Thread
		min. internal	max. external	
25	636 01	10	16	ISO 16
25	636 02	12	18	ISO 16
25	636 03	12	18	ISO 20
10	636 04	15	21.5	ISO 20
10	636 05	20	26.5	ISO 25
5	636 06	27	33.5	ISO 32
1	636 09	34.5	42.5	ISO 40
1	636 10	39	50	ISO 40
1	636 12	50	61	ISO 50
25	636 21	10	16	PG 9
25	636 22	12	18	PG 11
25	636 23	12	18	PG 13.5
10	636 24	15	21.5	PG 13.5
10	636 25	15	21.5	PG 16
10	636 26	20	26.5	PG 21
5	636 27	27	33.5	PG 29
		Nuts for Universale connectors		
		Hexagonal with conduit support in order to protect the casing surface when tightening		
		Black reinforced fibreglass PA 6		
50	979 41	ISO 16		
50	979 43	ISO 20		
50	979 45	ISO 25		
25	979 46	ISO 32		
25	979 47	ISO 40		
25	979 48	ISO 50		
25	979 49	ISO 63		
50	979 51	PG 9		
50	979 52	PG 11		
50	979 53	PG 13.5		
50	979 54	PG 16		
50	979 55	PG 21		
25	979 56	PG 29		

Pack	Cat.Nos		Connectors for FP 2000 PVC and metalloplastic conduits	
			Metal 2000 male connectors Sealing ring providing the IP between the connector and the conduit IP 66 with PVC FP 2000 conduit IP 65 with metalloplastic conduits Tinned steel ferrule screwed inside the metal conduit to ensure electrical continuity and protection of cables Supplied in a sachet. Nickel-plated brass	
	Straight	Right-angled	Internal Ø (mm) conduit	Thread
1	636 31	636 71	10	ISO 16
1	636 32	636 72	12	ISO 16
1	636 33	636 73	12	ISO 20
1	636 35	636 74	15.5	ISO 20
1	636 37	636 75	20.5	ISO 25
1	636 38		26.5	ISO 25
1	636 39	636 76	26.5	ISO 32
1	636 40	636 77	34.5	ISO 40
1	636 41	636 78	39.5	ISO 50
1	636 42	636 79	50.5	ISO 63
1	636 52	636 82	10	PG 9
1	636 53	636 83	10	PG 11
1	636 55	636 84	12	PG 11
1	636 58	636 86	15.5	PG 13.5
1	636 59	636 87	15.5	PG 16
1	636 60	636 88	20.5	PG 21
1	636 61	636 89	26.5	PG 29
1	636 62	636 90	34.5	PG 36
1	636 63	636 91	39.5	PG 42
1	636 64	636 92	50.5	PG 48
			Nuts for Metal 2000 connectors Nickel-plated brass	
50	979 81	ISO 16		
50	979 83	ISO 20		
50	979 85	ISO 25		
50	979 86	ISO 32		
25	979 87	ISO 40		
10	979 88	ISO 50		
10	979 89	ISO 63		
50	979 91	PG 9		
50	979 92	PG 11		
50	979 93	PG 13.5		
50	979 94	PG 16		
50	979 95	PG 21		
25	979 96	PG 29		
25	979 97	PG 36		
10	979 98	PG 42		
10	979 99	PG 48		

PVC rta flexible conduits and Universale connectors

■ Characteristics

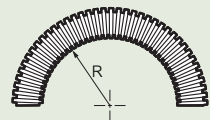
PVC conduit		GE - PVC	FP 2000
Materials		plasticized PVC	PVC
Classification according to EN 50086-1		-	2 3 1 1
Compressive strength		-	320 N
Impact strength		-	IK 07 (2 joules)
Operating temperatures ⁽¹⁾	min.	- 15 °C	+ 5 °C
	max.	+ 70 °C	+ 60 °C
Protection in accordance with IEC EN 60529	With Universale connector	IP 65	IP 44
	With Metal 2000 connector	-	IP 66
Fire resistance ⁽²⁾ in accordance with EN 50086-1		Flameproof	
Resistance to the main chemical agents	Lead-free petrol	..	...
	Dilute industrial detergents	...	...
	Diesel	..	...
	Lubricating oils	...	..
	Dilute acids	..	..
	Dilute alkaline solutions	.	.
	Cleaning solvents	..	.

(1) Min. - 20 °C, max. 80 °C for connectors

(2) Universale connectors, self-extinguishing at 850 °C acc. to IEC EN 60695-2-11 - V.O. acc. to UL 94

... Very good
.. Good
• Limited

Conduit bending radius

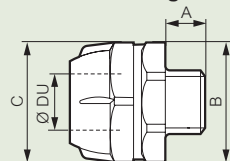


GE-PVC			FP 2000		
Cat.Nos	Ø internal	R min. (mm) ⁽¹⁾	Cat.Nos	Ø internal	R min. (mm) ⁽¹⁾
635 01	10	25	635 21	10	40
635 02	12	30	635 22	12.5	55
635 03	15.5	40	635 23	16	70
635 04	20.5	50	635 24	21	80
635 05	27	70	635 25	27	90
635 06	34.5	80	635 26	35.5	120
635 07	39.5	90	635 27	40.5	140
635 09	51	110	635 29	52	160

(1) Indicative dimensions

■ Dimensions

Universale straight male connectors



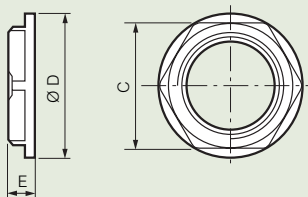
ISO

Cat.Nos	Thread	Dimensions (mm)			
		Ø DU	A	B (across flat)	C (across flat)
636 01	ISO 16	8	10	24	25
636 02	ISO 16	10	12	26	28
636 03	ISO 20	10	12	26	28
636 04	ISO 20	13	13	31	34
636 05	ISO 25	18	14	36	40
636 06	ISO 32	24	15	45	48
636 09	ISO 40	32	15	54	60
636 10	ISO 40	34	15	61	67
636 12	ISO 50	45.5	20	73	80

PG

Cat.Nos	Thread	Dimensions (mm)			
		Ø DU	A	B (across flat)	C (across flat)
636 21	PG 9	8	10	24	25
636 22	PG 11	10	12	26	28
636 23	PG 13.5	10	13	26	28
636 24	PG 13.5	13	13	31	34
636 25	PG 16	13	13	31	34
636 26	PG 21	18	14	36	40
636 27	PG 29	24	15	45	48

Nuts for Universale connectors



ISO

Cat.Nos	Thread	Dimensions		
		C	E	Ø D
979 41	ISO 16	22	5	24
979 43	ISO 20	26	6	28
979 45	ISO 25	32	6	35
979 46	ISO 32	41	7	43
979 47	ISO 40	50	7	56
979 48	ISO 50	60	8	66
979 49	ISO 63	75	8	82

PG

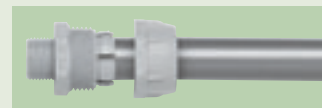
Cat.Nos	Thread	Dimensions		
		C	E	Ø D
979 51	PG 9	22	5	24
979 52	PG 11	24	5	26
979 53	PG 13.5	26	6	28
979 54	PG 16	32	6	35
979 55	PG 21	36	7	38
979 56	PG 29	46	7	51

■ Installation

Assembling the Universale connector



1. Composition of the assembly



2. Clamp ring run along and conduit inserted



3. Assembled elements after tightening

metalloplastic rta flexible conduits and Metal 2000 connectors

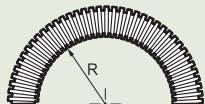
■ Characteristics

Metalloplastic conduit		FA	PN	P2
Materials		PVC coated hot dip galvanized steel		
Classification according to EN 50086-1		3 3 3 1	3 3 3 1	4 4 3 1
Compressive strength		750 N	750 N	1250 N
Impact strength		IK 07 (2 joules)	IK 07 (2 joules)	IK 08 (6 joules)
Operating temperatures ⁽¹⁾	min.		- 15 °C	
	max.		+ 60 °C	
Protection in accordance with IEC EN 60529 with metal connector		IP 65		
Self-extinguishing in accordance with EN 50086-1		Flameproof		
Resistance to the main chemical agents	Lead-free petrol	...	..	...
	Dilute industrial detergents	...	...	...
	Diesel	..	..	..
	Lubricating oils	...	...	...
	Dilute acids	..	.	.
	Dilute alkaline solutions	.	.	.
	Cleaning solvents	.	.	.

(1) Min. -20 °C, max. 80 °C for connectors

... Very good
.. Good
. Limited

Conduit bending radius

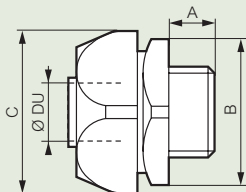


FA			PN			P2		
Cat.Nos	Ø internal	R min. (mm) ⁽¹⁾	Cat.Nos	Ø internal	R min. (mm) ⁽¹⁾	Cat.Nos	Ø internal	R min. (mm) ⁽¹⁾
635 41	10	30	635 51	10	35	635 61	10	50
635 42	12	35	635 52	12	50	635 62	12	65
635 43	15.5	40	635 53	15.5	70	635 63	15.5	80
635 44	20.5	60	635 54	20.5	80	635 64	20.5	110
635 45	26.5	100	635 55	26.5	110	635 65	26.5	130
635 46	34.5	110	635 56	34.5	135	635 66	34.5	150
635 47	39.5	150	635 57	39.5	160	635 67	39.5	190
635 49	50.5	200	635 59	50.5	200	635 69	50.5	230

(1) Indicative dimensions

■ Dimensions

Metal 2000 straight male connectors



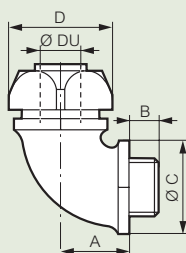
ISO

Cat.Nos	Thread	Dimensions (mm)			
		Ø DU	A	B (across flat)	C (across flat)
636 31	ISO 16	8.5	10	20	22
636 32	ISO 16	10	10	24	26
636 33	ISO 20	10	10	24	26
636 35	ISO 20	14	10	27	29
636 37	ISO 25	19	10	33	35
636 38	ISO 25	24	10	43	35
636 39	ISO 32	24	12	43	45
636 40	ISO 40	32	14	51	54
636 41	ISO 50	37	14	60	62
636 42	ISO 63	47	16	74	77

PG

Cat.Nos	Thread	Dimensions (mm)			
		Ø DU	A	B (across flat)	C (across flat)
636 52	PG 9	8.5	10	20	22
636 53	PG 11	8.5	10	20	22
636 55	PG 11	10	10	24	26
636 58	PG 13.5	14	10	27	29
636 59	PG 16	14	10	27	29
636 60	PG 21	19	10	33	35
636 61	PG 29	24	12	43	45
636 62	PG 36	32	14	51	54
636 63	PG 42	37	14	60	62
636 64	PG 48	47	16	74	77

Metal 2000 right-angled male connectors 90°



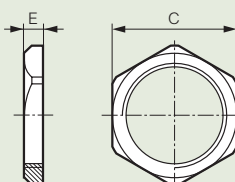
ISO

Cat.Nos	Thread	Dimensions (mm)				
		Ø DU	A	B	Ø C	D (across flat)
636 71	ISO 16	8.5	20.5	10	22	22
636 72	ISO 16	10	23	10	25	26
636 73	ISO 20	10	23	10	25	26
636 74	ISO 20	14	23.5	10	27	29
636 75	ISO 25	19	27.5	10	32	35
636 76	ISO 32	24	33	14	42	45
636 77	ISO 40	32	39	16	51	54
636 78	ISO 50	37	47	18	60	62
636 79	ISO 63	47	55	20	74	77

PG

Cat.Nos	Thread	Dimensions (mm)				
		Ø DU	A	B	Ø C	D (across flat)
636 82	PG 9	8.5	20.5	10	22	22
636 83	PG 11	8.5	20.5	10	22	22
636 84	PG 11	10	23	10	25	26
636 86	PG 13.5	14	23.5	10	27	29
636 87	PG 16	14	23.5	10	27	29
636 88	PG 21	19	27.5	10	33	35
636 89	PG 29	24	33	14	42	45
636 90	PG 36	32	39	16	51	54
636 91	PG 42	37	47	18	60	62
636 92	PG 48	47	55	20	74	77

Nuts for Metal 2000 connectors



ISO

Cat.Nos	Thread	Dimensions (mm)	
		C	E
979 81	ISO 16	19	3
979 83	ISO 20	24	3.5
979 85	ISO 25	30	4
979 86	ISO 32	36	4
979 87	ISO 40	46	5
979 88	ISO 50	60	5
979 89	ISO 63	70	5

PG

Cat.Nos	Thread	Dimensions (mm)	
		C	E
979 91	PG 9	18	2.8
979 92	PG 11	21	3
979 93	PG 13.5	23	3
979 94	PG 16	26	3
979 95	PG 21	32	3.5
979 96	PG 29	41	4
979 97	PG 36	51	5
979 98	PG 42	60	5
979 99	PG 48	64	5.5

■ Installation

Assembling the Metal 2000 connector



1. Composition of the assembly



2. Clamp and sealing rings run along then ferrule screwed inside the metal conduit



3. Assembled elements after tightening



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