

METECON / METECON®

***HEAVY DUTY
CONNECTORS
INSERTS***

INSERTS	A Series	E Series	HSB Series	K Series
Number of Contacts	2, 3, 4,10,16, 32P+E	6, 10, 16, 24, 32, 48P+E	6, 12P+E	4/0, 4/2
Current	10A	16A	35A	80A, 80/16A
Voltage	220 - 240 V	500 V	400 / 690 V	
Operating Voltage	4 kV	6 kV		
Pollution Degree	3			2
Insulation Resistance	$\geq 10^{10} \Omega$			
Material	PC %10 GF	PBT %30 GF		
Temperature Range	- 40 °C / + 125 °C			
Flammability	V0			
Mechanical Working Life	≥ 500			

CONTACTS

Material	Brass			
Silver Thickness	3 μ m Ag			
Contact Resistance	$\leq 1 \text{ m } \Omega$			

Screw Connection

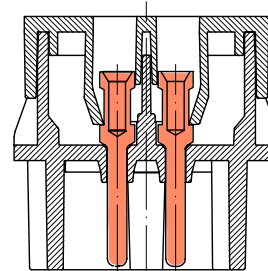
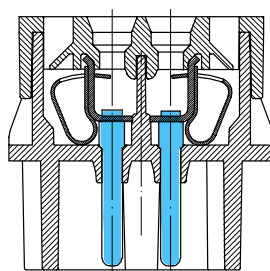
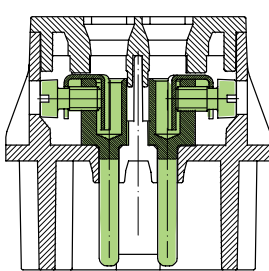
Cable Section	1.0 - 2.5 mm ²	6 mm ²	1.5 - 16 mm ²					
Awg	18 - 14	10	1,5	2,5	4	6	10	16
Tightening Torque	0.5 Nm	1.2 Nm	1,2	2	3	3	3	3
Stripping Length	7 mm							

Spring Connection

Cable Section	0.14 - 2.5 mm ²						
Awg	26 - 14						
Stripping Length	9.. 11						

Crimp Connection

Cable Section	0.14 - 4.0 mm ²						
Awg	20 - 12						
Stripping Length	7.5						

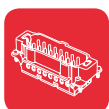


METAL HOODS - HOUSINGS

Material	Aluminum	
Surface	Powder - coated	
Gaskets	NBR	
Temperature Range	- 40 °C / + 125 °C	
Protection Degree (Acc. to DIN EN 60529 for coupled connectors)	IP65	

PLASTIC HOODS - HOUSINGS

Material	PC	
Gaskets	NBR	
Temperature Range	- 40 °C / + 125 °C	
Protection Degree (Acc. to DIN EN 60529 for coupled connectors)	IP65	



INSERTS
p.04



**HOODS
HOUSINGS**
p.13



2P+E

Size 3A

10A / 250 V

Code	Description	Terminal	Box Quantity
29007	Male Insert	Screw	200
29006	Female Insert	Screw	200
29005	Male Insert (Back Entry)	Screw	200
29004	Female Insert (Back Entry)	Screw	200



3P+E

Size 3A

10A / 250 V

Code	Description	Terminal	Box Quantity
29009	Male Insert	Screw	200
29008	Female Insert	Screw	200
29003	Male Insert (Back Entry)	Screw	200
29002	Female Insert (Back Entry)	Screw	200



4P+E

Size 3A

10A / 250 V

Code	Description	Terminal	Box Quantity
29011	Male Insert	Screw	200
29010	Female Insert	Screw	200
29016	Male Insert (Back Entry)	Screw	200
29012	Female Insert (Back Entry)	Screw	200



10P+E

Size 10A

16A / 250 V

Code	Description	Terminal	Box Quantity
29421	Male Insert	Screw	80
29420	Female Insert	Screw	80

16P+E

Size 16A

16A / 250 V

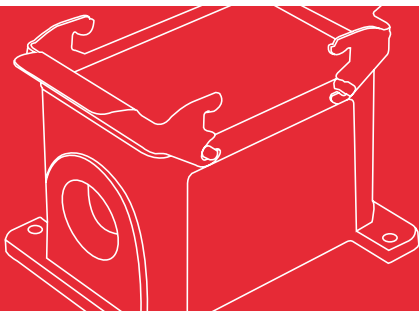
Code	Description	Terminal	Box Quantity
29423	Male Insert (1-16)	Screw	60
29422	Female Insert (1-16)	Screw	60

32P+E

Size 32A

16A / 250 V

Code	Description	Terminal	Box Quantity
29423	Male Insert (1-16)	Screw	60
29422	Female Insert (1-16)	Screw	60
29427	Male Insert (17-32)	Screw	60
29426	Female Insert (17-32)	Screw	60



Further Selection of Hoods & Housings see
Page 13-22.

6P+E

Size 6B

16A / 500 V

Code	Description	Terminal	Box Quantity
29121	Male Insert	Screw	50
29120	Female Insert	Screw	50
291212006	Male Insert	Spring	50
291202006	Female Insert	Spring	50
291213006	Male Insert	Crimp	50
291203006	Female Insert	Crimp	50



10P+E

Size 10B

16A / 500 V

Code	Description	Terminal	Box Quantity
29021	Male Insert	Screw	50
29020	Female Insert	Screw	50
290212010	Male Insert	Spring	50
290202010	Female Insert	Spring	50
290213010	Male Insert	Crimp	50
290203010	Female Insert	Crimp	50





16P+E

Size 16B

16A / 500 V

Code	Description	Terminal	Box Quantity
29023	Male Insert	Screw	30
29022	Female Insert	Screw	30
290232016	Male Insert	Spring	30
290222016	Female Insert	Spring	30
290233016	Male Insert	Crimp	30
290223016	Female Insert	Crimp	30

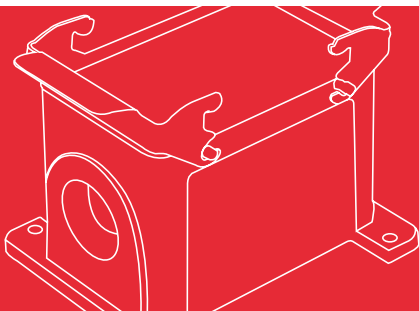


24P+E

Size 24B

16A / 500 V

Code	Description	Terminal	Box Quantity
29025	Male Insert	Screw	25
29024	Female Insert	Screw	25
290252024	Male Insert	Spring	25
290242024	Female Insert	Spring	25
290253024	Male Insert	Crimp	25
290243024	Female Insert	Crimp	25



Further Selection of Hoods & Housings see
Page 13-22.

32P+E

Size 32B

16A / 500 V

Code	Description	Terminal	Box Quantity
29023	Male Insert (1-16)	Screw	30
29022	Female Insert (1-16)	Screw	30
29027	Male Insert (17-32)	Screw	30
29026	Female Insert (17-32)	Screw	30
290232016	Male Insert (1-16)	Spring	30
290222016	Female Insert (1-16)	Spring	30
290272032	Male Insert (17-32)	Spring	30
290262032	Female Insert (17-32)	Spring	30
290233016	Male Insert (1-16)	Crimp	30
290223016	Female Insert (1-16)	Crimp	30
290273032	Male Insert (17-32)	Crimp	30
290263032	Female Insert (17-32)	Crimp	30



48P+E

Size 48B

16A / 500 V

Code	Description	Terminal	Box Quantity
29025	Male Insert (1-24)	Screw	25
29024	Female Insert (1-24)	Screw	25
29029	Male Insert (25-48)	Screw	25
29028	Female Insert (25-48)	Screw	25
290252024	Male Insert (1-24)	Spring	25
290242024	Female Insert (1-24)	Spring	25
290282048	Male Insert (25-48)	Spring	25
290292048	Female Insert (25-48)	Spring	25
290253024	Male Insert (1-24)	Crimp	25
290243024	Female Insert (1-24)	Crimp	25
290293048	Male Insert (25-48)	Crimp	25
290283048	Female Insert (25-48)	Crimp	25



* Further Selection of Hoods&Housings see Page 14-23,



6P+E

Size 16B

35A / 400-690 V

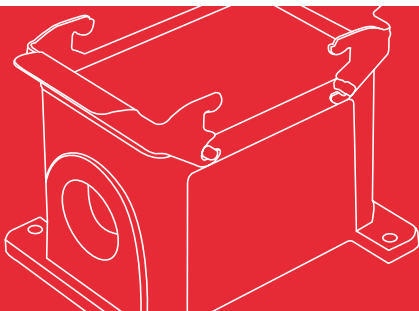
Code	Description	Terminal	Box Quantity
29125	Male Insert (1-6)	Screw	30
29124	Female Insert (1-6)	Screw	30

12P+E

Size 32B

35A / 400-690 V

Code	Description	Terminal	Box Quantity
29125	Male Insert (1-6)	Screw	30
29124	Female Insert (1-6)	Screw	30
29129	Male Insert (7-12)	Screw	30
29128	Female Insert (7-12)	Screw	30



Further Selection of Hoods & Housings see
Page 13-22.



4P+E

Size 16B

80A 400-690 V

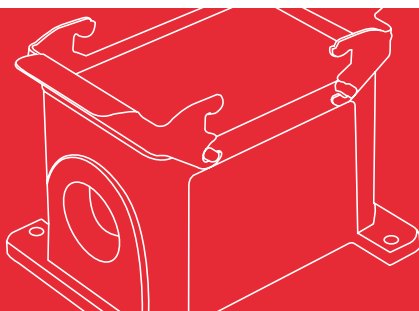
Code	Description	Terminal	Box Quantity
29115	Male Insert	Screw	30
29114	Female Insert	Screw	30

4P+2P+E

Size 16B

80A / 16A 400-690 V

Code	Description	Terminal	Box Quantity
29117	Male Insert	Screw	30
29116	Female Insert	Screw	30



Further Selection of Hoods & Housings see Page 13-22.

16A CRIMP CONTACTS

SILVER PLATED (FOR E SERIES)



MALE CRIMP CONTACTS

Product Code	Cable Section
141061	0.14 mm ² - 0.37 mm ²
141062	0.50 mm ²
141063	0.75 mm ²
141064	1.00 mm ²
141065	1.50 mm ²
141066	2.50 mm ²
141067	3.00 mm ²
141068	4.00 mm ²

FEMALE CRIMP CONTACTS

Product Code	Cable Section
141051	0.14 mm ² - 0.37 mm ²
141052	0.50 mm ²
141053	0.75 mm ²
141054	1.00 mm ²
141055	1.50 mm ²
141056	2.50 mm ²
141057	3.00 mm ²
141058	4.00 mm ²



| 29940

- Crimping Tool
- 0,14 to 4,0 mm



| 29941

- Removal Tool
- For 16A Crimp Contacts

INSPIRED BY NATURE

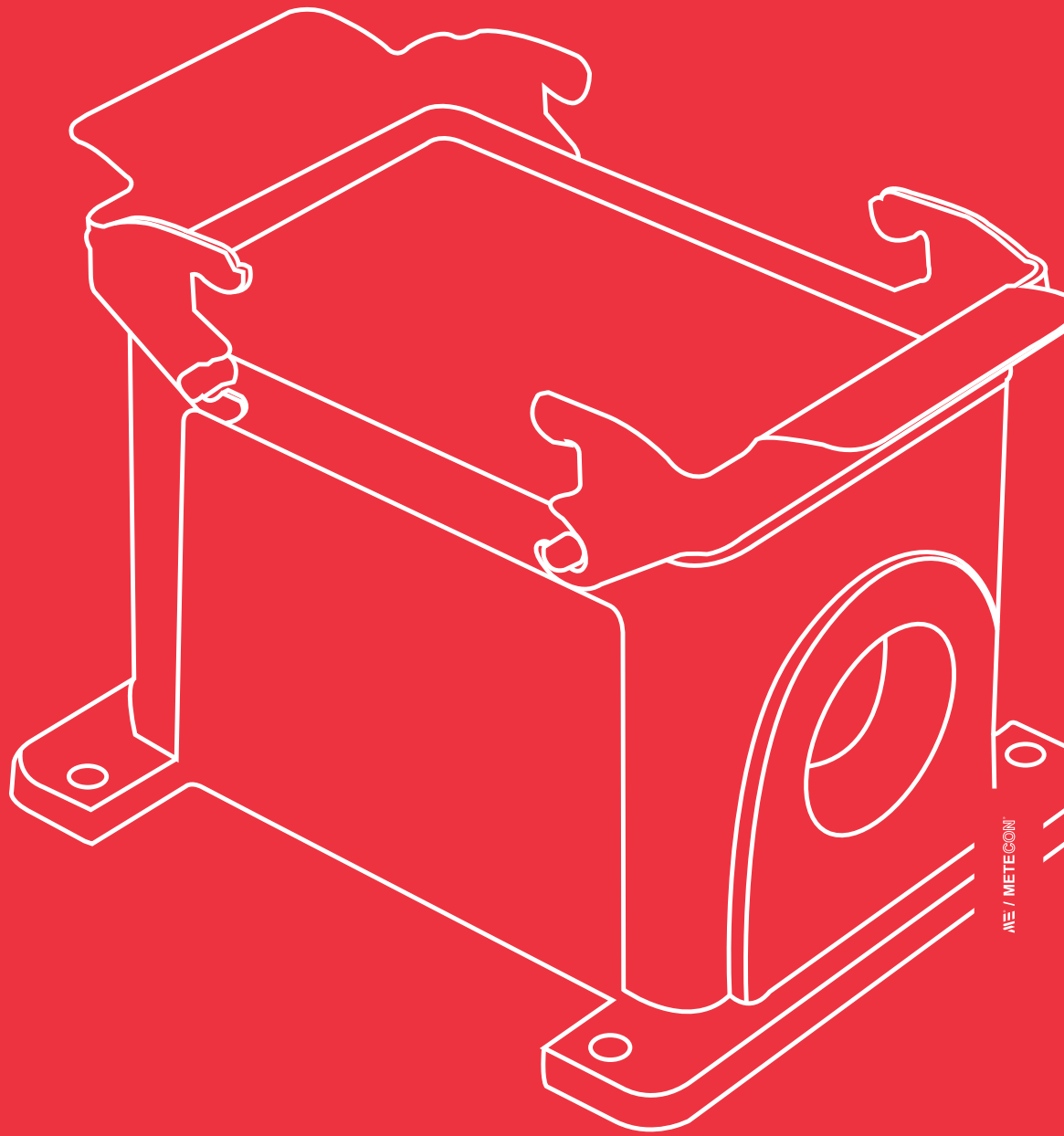
→ Cactuses are very durable plants. They can withstand burning heat and freezing temperatures. Due to its strong structure, they can survive for a very long time.



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HEAVY DUTY CONNECTORS

HOODS & HOUSINGS



SIZE 3A

Plastic Hoods & Housings - PG11

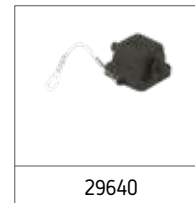
Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
29080	Hood For Male Insert	Top	Single		1	100
29079	Hood For Female Insert	Top	Single		1	100
29075	Housing	-	Single		1	100
29077	Housing (Angled)	-	Single		-	100
29640	Cover For Female Insert	-	Single		-	250
29642	Cover For Male Insert	-	Single		-	125
50103	PG 11 Plastic Cable Gland	-	Single		-	200



SIZE 3A

Aluminum Hoods & Housings - PG11

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
29017	Hood For Male Insert	Top	Single		1	100
29019	Hood For Male Insert (Angled)	Side	Single		1	100
29015S	Hood For Female Insert	Top	Single		1	100
29013S	Housing For Female Insert	-	Single		1	100
29014S	Housing For Female Insert (Angled)	-	Single		1	100
29018S	Housing For Female Insert (Angled)	-	Single		2	100
29640	Cover For Female Insert	-	Single		-	250
29642	Cover For Male Insert	-	Single		-	125
50103	PG 11 Plastic Cable Gland	-	Single		-	200



Thread	Color	Material	Diameter	Thread	Color	Material	Diameter
-0405		Aluminum Grey	PG 13,5	-0404		Aluminum Black	PG 13,5
-2205		Aluminum Grey	M 20	-2204		Aluminum Black	M 20
-3105		Aluminum Grey	N 3/8	-3104		Aluminum Black	N 3/8
-0304		Aluminum Black	PG 11				

For different color and / or different threads please prefix the standard product code from next table. For the products ending with "S" please add it at the end of newly created code. (E.g.: 29015-0405S)

SIZE 10A

Aluminum Hoods & Housings - PG16

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
293502	Housing (Bulkhead Mounting)	-	Single		1	40
293512	Housing (Surface Mounting)	Side	Single		1	20
293522	Housing (Surface Mounting)	Side	Single		2	20
293532	Hood	Side	Single	●	1	40
293542	Hood	Top	Single	●	1	30



SIZE 16A

Aluminum Hoods & Housings - PG16

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
293602	Housing (Bulkhead Mounting)	-	Single		1	30
293612	Housing (Surface Mounting)	Side	Single		1	18
293622	Housing (Surface Mounting)	Side	Single		2	18
293632	Hood	Side	Single	●	1	30
293642	Hood	Top	Single	●	1	25



Thread	Color	Material	Diameter	Thread	Color	Material	Diameter
-0405		Aluminum Grey	PG 13,5	-0404		Aluminum Black	PG 13,5
-2205		Aluminum Grey	M 20	-2204		Aluminum Black	M 20
-2305		Aluminum Grey	M 25	-2304		Aluminum Black	M 25
-3005		Aluminum Grey	N 1/2	-3004		Aluminum Black	N 1/2
-0504		Aluminum Black	PG 16				

For different color and / or different threads please prefix the standard product code from next table. (E.g.: 293532-0405)

SIZE 32A

Aluminum Hoods & Housings - PG21

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
290462	Housing (Bulkhead Mounting)	-	Double	●	1	18
290602	Hood	Top	Double		1	16
290612	Hood	Side	Double		1	16
290812	Housing (Surface Mounting)	Side	Double	●	1	-
290822	Housing (Surface Mounting)	Side	Double	●	2	-



290462



290602



290612



290812

Thread	Color	Material	Diameter	Thread	Color	Material	Diameter
-2405		Aluminum Grey	M 32	-0704		Aluminum Black	PG 29
-2505		Aluminum Grey	M 40	-2404		Aluminum Black	M 32
-2805		Aluminum Grey	N 1	-2504		Aluminum Black	M 40
-2905		Aluminum Grey	N 3/4	-2804		Aluminum Black	N 1
-0604		Aluminum Black	PG 21	-2904		Aluminum Black	N 3/4

For different color and / or different threads please prefix the standard product code from next table. (E.g.: 290612-2405)

SIZE 6B

Aluminum Hoods & Housings - PG16

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
29135	Hood	Top	Single		1	20
29131	Hood	Side	Single		1	20
29140S	Hood	Top	Single	●	1	10
29132S	Hood	Side	Single	●	1	10
29130S	Housing (Bulkhead Mounting)	-	Single	●	1	20
29133S	Housing (Surface Mounting)	-	Single	●	1	10
29134S	Housing (Surface Mounting)	-	Single	●	2	10
29400S	Housing (Bulkhead Mounting With Cover)	-	Single	●	1	20
29401S	Housing (Surface Mounting With Cover)	-	Single	●	1	10
29402S	Housing (Surface Mounting With Cover)	-	Single	●	2	10
29644	Cover For Housing	-	-		1	100
29646S	Cover For Hood	-	-	●	1	50
29950	Cable Gland (PG16)	-	-		1	-



Thread	Color	Material	Diameter	Thread	Color	Material	Diameter
-0405		Aluminum Grey	PG 13,5	-0404		Aluminum Black	PG 13,5
-2205		Aluminum Grey	M 20	-2204		Aluminum Black	M 20
-2305		Aluminum Grey	M 25	-2304		Aluminum Black	M 25
-3005		Aluminum Black	N 1/2	-3004		Aluminum Black	N 1/2
-0504		Aluminum Black	PG 16				

For different color and / or different threads please prefix the standard product from next table. For the product ending with "S" please add it at the end of newly created code. (E.g.: 29133-0405S)

* Please contact us for cable entry and color options.



SIZE 10B

Aluminum Hoods & Housings - PG16

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
29145	Hood	Top	Double		1	15
29041	Hood	Side	Double		1	15
29150S	Hood	Top	Double	●	1	10
29049S	Hood	Side	Double	●	1	10
29040S	Housing (Bulkhead Mounting)	-	Double	●	1	15
29054S	Housing (Surface Mounting)	-	Double	●	1	10
29055S	Housing (Surface Mounting)	-	Double	●	2	10
29174	Hood (h:70mm)	*	Double		*	10
29175S	Hood (h:70mm)	*	Double	●	*	10
29354	Hood	Top	Single		1	15
29353	Hood	Side	Single		1	15
29356S	Hood	Top	Single	●	1	10
29355S	Hood	Side	Single	●	1	10
29350S	Housing (Bulkhead Mounting)	-	Single	●	1	15
29351S	Housing (Surface Mounting)	-	Single	●	1	10
29352S	Housing (Surface Mounting)	-	Single	●	2	10
29357	Hood (h:70mm)	*	Single		*	10
29358S	Hood (h:70mm)	*	Single	●	*	10
29405S	Housing (Bulkhead Mounting With Cover)	-	Single	●	1	15
29406S	Housing (Surface Mounting With Cover)	-	Single	●	1	10
29407S	Housing (Surface Mounting With Cover)	-	Single	●	2	10
29650	Cover For Housing	-	-		1	75
29653S	Cover For Hood	-	-	●	1	30
29950	Cable Gland (PG16)	-	-		1	-



Thread	Color	Material	Diameter	Thread	Color	Material	Diameter
-0405		Aluminum Grey	PG 13,5	-0404		Aluminum Black	PG 13,5
-2205		Aluminum Grey	M 20	-2204		Aluminum Black	M 20
-2305		Aluminum Grey	M 25	-2304		Aluminum Black	M 25
-3005		Aluminum Black	N 1/2	-3004		Aluminum Black	N 1/2
-0504		Aluminum Black	PG 16				

For different color and / or different threads please prefix the standard product code from next table. For the products ending with "S" please add it at the end of newly created code. (E.g.: 29145-0405S)

* Please contact us for cable entry and color options.

SIZE 16B

Aluminum Hoods & Housings - PG21

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
29155	Hood	Top	Double		1	12
29043	Hood	Side	Double		1	12
29160S	Hood	Top	Double	●	1	10
29050S	Hood	Side	Double	●	1	10
29042S	Housing (Bulkhead Mounting)	-	Double	●	1	12
29056S	Housing (Surface Mounting)	-	Double	●	1	10
29057S	Housing (Surface Mounting)	-	Double	●	2	10
29176	Hood (h:80mm)	*	Double		*	10
29177S	Hood (h:80mm)	*	Double	●	*	8
29364	Hood	Top	Single		2	12
29363	Hood	Side	Single		1	12
29366S	Hood	Top	Single	●	1	10
29365S	Hood	Side	Single	●	1	10
29360S	Housing (Bulkhead Mounting)	-	Single	●	1	12
29361S	Housing (Surface Mounting)	-	Single	●	1	10
29362S	Housing (Surface Mounting)	-	Single	●	2	10
29367	Hood (h:80mm)	*	Single		*	10
29368S	Hood (h:80mm)	*	Single	●	*	8
29410S	Housing (Bulkhead Mounting With Cover)	-	Single	●	1	12
29411S	Housing (Surface Mounting With Cover)	-	Single	●	1	10
29412S	Housing (Surface Mounting With Cover)	-	Single	●	2	10
29651	Cover For Housing	-	-		1	50
29654S	Cover For Hood	-	-	●	1	20
29952	Cable Gland (PG21)	-	-		1	-



Thread	Color	Material	Diameter
-2305		Aluminum Grey	M25
-2905		Aluminum Grey	N 3/4
-0604		Aluminum Black	PG 21
-2304		Aluminum Black	M 25
-2904		Aluminum Black	N 3/4

For different color and / or different threads please prefix the standard product code from next table. For the products ending with "S" please add it at the end of newly created code. (E.g.: 29362-2305S)

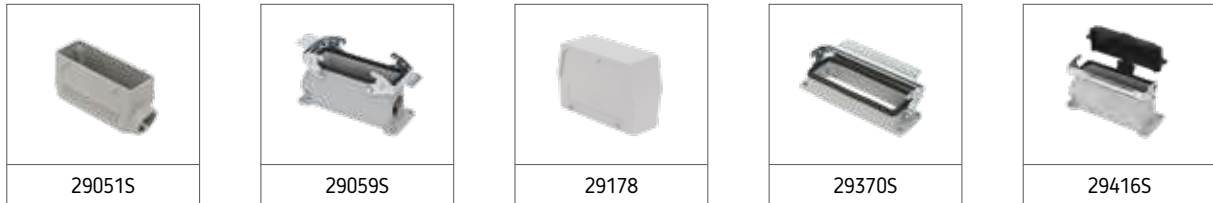
* Please contact us for cable entry and color options.



SIZE 24B

Aluminum Hoods & Housings - PG21

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
29165	Hood	Top	Double		1	10
29045	Hood	Side	Double		1	10
29170S	Hood	Top	Double	●	1	6
29051S	Hood	Side	Double	●	1	8
29044S	Housing (Bulkhead Mounting)	-	Double	●	1	10
29058S	Housing (Surface Mounting)	-	Double	●	1	8
29059S	Housing (Surface Mounting)	-	Double	●	2	8
29178	Hood (h:80mm)	*	Double		*	10
29179S	Hood (h:80mm)	*	Double	●	*	6
29374	Hood	Top	Single		1	10
29373	Hood	Side	Single		1	10
29376S	Hood	Top	Single	●	1	6
29375S	Hood	Side	Single	●	1	8
29370S	Housing (Bulkhead Mounting)	-	Single	●	1	10
29371S	Housing (Surface Mounting)	-	Single	●	1	8
29372S	Housing (Surface Mounting)	-	Single	●	2	8
29377	Hood (h:80mm)	*	Single		*	10
29378S	Hood (h:80mm)	*	Single	●	*	6
29415S	Housing (Bulkhead Mounting With Cover)	-	Single	●	1	10
29416S	Housing (Surface Mounting Cover)	-	Single	●	1	8
29417S	Housing (Surface Mounting With Cover)	-	Single	●	2	8
29652	Cover For Housing	-	-		1	40
29655S	Cover For Hood	-	-	●	1	20
29952	Cable Gland (PG21)	-	-		1	-



Thread	Color	Material	Diameter
-2305		Aluminum Grey	M25
-2905		Aluminum Grey	N 3/4
-0604		Aluminum Black	PG 21
-2304		Aluminum Black	M 25
-2904		Aluminum Black	N 3/4

For different color and / or different threads please prefix the standard product code from next table. For the products ending with "S" please add it at the end of newly created code. (E.g.: 29058-2305S)

* Please contact us for cable entry and color options.

SIZE 32B

Aluminum Hoods & Housings - PG21

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
29060	Hood	Top	Double		1	6
29061	Hood	Side	Double		1	6
29062S	Hood	Top	Double	●	1	4
29063S	Hood	Side	Double	●	1	4
29046S	Housing (Bulkhead Mounting)	-	Double	●	1	8
29081S	Housing (Surface Mounting)	-	Double	●	1	4
29082S	Housing (Surface Mounting)	-	Double	●	2	4
29660	Cover For Housing	-	Double		1	30
29662S	Cover For Hood	-	Double	●	1	10
29954	Cable Gland (PG29)	-	Double		1	-



Thread	Color	Material	Diameter	Thread	Color	Material	Diameter
-2405		Aluminum Grey	M 32	-0704		Aluminum Black	PG 29
-2505		Aluminum Grey	M 40	-2404		Aluminum Black	M 32
-2805		Aluminum Grey	N 1	-2504		Aluminum Black	M 40
-2905		Aluminum Grey	N 3/4	-2804		Aluminum Black	N 1
-0604		Aluminum Black	PG 21	-2904		Aluminum Black	N 3/4

For different color and / or different threads please prefix the standard product from next table. For the product ending with "S" please add it at the end of newly created code. (E.g.: 29081-2405S)



SIZE 48B

Aluminum Hoods & Housings - PG29

Code	Description	Entry Type	Lever Type	Gasket	Nr. Of Entries	Box Quantity
29065	Hood	Top	Double		1	4
29066	Hood	Side	Double		1	4
29067S	Hood	Top	Double	●	1	4
29068S	Hood	Side	Double	●	1	4
29048S	Housing (Bulkhead Mounting)	-	Double	●	1	8
29083S	Housing (Surface Mounting)	-	Double	●	1	3
29084S	Housing (Surface Mounting)	-	Double	●	2	3
29094	Hood	Top	Single		1	4
29093	Hood	Side	Single		1	4
29096S	Hood	Top	Single	●	1	4
29095S	Hood	Side	Single	●	1	4
29090S	Housing	-	Single	●	1	8
29091S	Housing	-	Single	●	1	3
29092S	Housing	-	Single	●	2	3
29661	Cover For Housing	-	-		1	20
29663S	Cover For Hood	-	-	●	1	10
29954	Cable Gland (PG29)	-	-		1	-



Thread	Color	Material	Diameter	Thread	Color	Material	Diameter
-0605		Aluminum Grey	PG 21	-0604		Aluminum Black	PG 21
-0805		Aluminum Grey	PG 36	-0804		Aluminum Black	PG 36
-2405		Aluminum Grey	M 32	-2404		Aluminum Black	M 32
-2505		Aluminum Grey	M 40	-2504		Aluminum Black	M 40
-2605		Aluminum Grey	M 50	-2604		Aluminum Black	M 50
-2805		Aluminum Grey	N 1	-2804		Aluminum Black	N 1
-0704		Aluminum Black	PG 29				

For different color and / or different threads please prefix the standard product from next table. For the product ending with "S" please add it at the end of newly created code. (E.g.: 29083-0605S)



20066

- Plastic Lever
- Size 3A



20476

- Plastic Lever
- Size 10A



20486

- Plastic Lever
- Size 16A



20477

- Plastic Lever
- Size 32A



29600

- Plastic Lever
- Size 10B-16B-24B



29602

- Plastic Lever
- Size 16B



29601

- Plastic Lever
- Size 32B-48B



29605

- Metal Lever
- Size 3A



29606

- Metal Lever
- Size 6A



29607

- Metal Lever
- For 10-16-24x16A and
- Size 10B-16B-24B



29608

- Metal Lever
- Size 32B-48B



29950

- Brass
- PG 16 Cable Gland Set



29952

- Brass
- PG 21 Cable Gland Set



29953

- Brass
- PG 21 Cable Gland Set
- With Housing



29954

- Brass
- PG 29 Cable Gland Set
- Clamped Fitting