



LES Cable entry systems

Degree of protection IP 55 up to IP 67

- for indoor installation - normal environment and (or) protected outdoor installation
- for outdoor installation - harsh environment and/or outdoor
- systems for cable and conduit entry
- grommets and cable glands with strain relief
- Combi climate glands for cable entry and ventilation in one

- for indoor - normal environment and (or) protected outdoor installation
- glow wire test IEC 60 695-2-11 750°C

- material: thermoplastic
- colour: grey, RAL 7035



Grommets degree of protection IP 55				
ESM 16	for knockouts M 16	sealing range Ø 4.8-11 mm	bore-hole Ø 16.5 mm	wall thickness 1.5-3.5 mm
ESM 20	for knockouts M 20	sealing range Ø 6-13 mm	bore-hole Ø 20.5 mm	wall thickness 1.5-3.5 mm
ESM 25	for knockouts M 25	sealing range Ø 9-17 mm	bore-hole Ø 25.5 mm	wall thickness 1.5-3.5 mm
ESM 32	for knockouts M 32	sealing range Ø 9-23 mm	bore-hole Ø 32.5 mm	wall thickness 1.5-3.5 mm
ESM 40	for knockouts M 40	sealing range Ø 17-30 mm	bore-hole Ø 40.5 mm	wall thickness 1.5-3.5 mm

Stepped grommet degree of protection IP 55				
STM 16	for knockouts M 16	sealing range Ø 3.5-12 mm	bore-hole Ø 16.5 mm	wall thickness 1.5-4 mm
STM 20	for knockouts M 20	sealing range Ø 5-16 mm	bore-hole Ø 20.5 mm	wall thickness 1.5-4 mm
STM 25	for knockouts M 25	sealing range Ø 5-21 mm	bore-hole Ø 25.5 mm	wall thickness 1.5-4 mm
STM 32	for knockouts M 32	sealing range Ø 13-26.5 mm	bore-hole Ø 32.5 mm	wall thickness 1.5-4 mm
STM 40	for knockouts M 40	sealing range Ø 13-34 mm	bore-hole Ø 40.5 mm	wall thickness 1.5-4 mm

Grommets degree of protection IP 65				
EDK 16	for knockouts M 16	sealing range Ø 5-10 mm	bore-hole Ø 16.5 mm	wall thickness 1.5-3.5 mm
EDK 20	for knockouts M 20	sealing range Ø 6-13 mm	bore-hole Ø 20.5 mm	wall thickness 1.5-3.5 mm
EDK 25	for knockouts M 25	sealing range Ø 9-17 mm	bore-hole Ø 25.5 mm	wall thickness 1.5-3.5 mm
EDK 32	for knockouts M 32	sealing range Ø 8-23 mm	bore-hole Ø 32.5 mm	wall thickness 1.5-3.5 mm
EDK 40	for knockouts M 40	sealing range Ø 11-30 mm	bore-hole Ø 40.5 mm	wall thickness 1.5-3.5 mm

Grommets for conduits degree of protection IP 65				
EDR 16	for knockouts M 16	conduit connection M 16	bore-hole Ø 16.5 mm	wall thickness 1.5-3.2 mm
EDR 20	for knockouts M 20	conduit connection M 20	bore-hole Ø 20.5 mm	wall thickness 1.5-3.2 mm
EDR 25	for knockouts M 25	conduit connection M 25	bore-hole Ø 25.5 mm	wall thickness 1.5-3.2 mm
EDR 32	for knockouts M 32	conduit connection M 32	bore-hole Ø 32.5 mm	wall thickness 1.5-3.2 mm
EDR 40	for knockouts M 40	conduit connection M 40	bore-hole Ø 40.5 mm	wall thickness 1.5-3.2 mm

- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- with strain relief and locknut

- material: thermoplastic



Cable glands

degree of protection IP 65

colour: grey, RAL 7035

glow wire test IEC 60 695-2-11 750°C

AKM 12	ISO thread M 12 x 1.5	sealing range Ø 3-6.5 mm	bore-hole Ø 12.5 mm	wall thickness to 3 mm
AKM 16	ISO thread M 16 x 1.5	sealing range Ø 5-10 mm	bore-hole Ø 16.5 mm	wall thickness to 3 mm
AKM 20	ISO thread M 20 x 1.5	sealing range Ø 6.5-13.5 mm	bore-hole Ø 20.5 mm	wall thickness to 3 mm
AKM 25	ISO thread M 25 x 1.5	sealing range Ø 10-17 mm	bore-hole Ø 25.5 mm	wall thickness to 3 mm
AKM 32	ISO thread M 32 x 1.5	sealing range Ø 14-21 mm	bore-hole Ø 32.5 mm	wall thickness to 3 mm
AKM 40	ISO thread M 40 x 1.5	sealing range Ø 20-28 mm	bore-hole Ø 40.5 mm	wall thickness to 3 mm
AKM 50	ISO thread M 50 x 1.5	sealing range Ø 25-35 mm	bore-hole Ø 50.5 mm	wall thickness to 3 mm
AKM 63	ISO thread M 63 x 1.5	sealing range Ø 35-48 mm	bore-hole Ø 63.5 mm	wall thickness to 3 mm



Cable glands

degree of protection IP 66

colour: grey, RAL 7032

glow wire test IEC 60 695-2-11 960°C

ASM 12	ISO thread M 12 x 1.5	sealing range Ø 3-6.5 mm	bore-hole Ø 12.5 mm	wall thickness to 3 mm
ASM 16	ISO thread M 16 x 1.5	sealing range Ø 5-10 mm	bore-hole Ø 16.5 mm	wall thickness to 3 mm
ASM 20	ISO thread M 20 x 1.5	sealing range Ø 6.5-13.5 mm	bore-hole Ø 20.5 mm	wall thickness to 3 mm
ASM 25	ISO thread M 25 x 1.5	sealing range Ø 10-17 mm	bore-hole Ø 25.5 mm	wall thickness to 3 mm
ASM 32	ISO thread M 32 x 1.5	sealing range Ø 14-21 mm	bore-hole Ø 32.5 mm	wall thickness to 3 mm
ASM 40	ISO thread M 40 x 1.5	sealing range Ø 20-28 mm	bore-hole Ø 40.5 mm	wall thickness to 3 mm
ASM 50	ISO thread M 50 x 1.5	sealing range Ø 25-35 mm	bore-hole Ø 50.5 mm	wall thickness to 3 mm
ASM 63	ISO thread M 63 x 1.5	sealing range Ø 35-48 mm	bore-hole Ø 63.5 mm	wall thickness to 3 mm

LES Cable entry systems
Cable glands
without counter nut

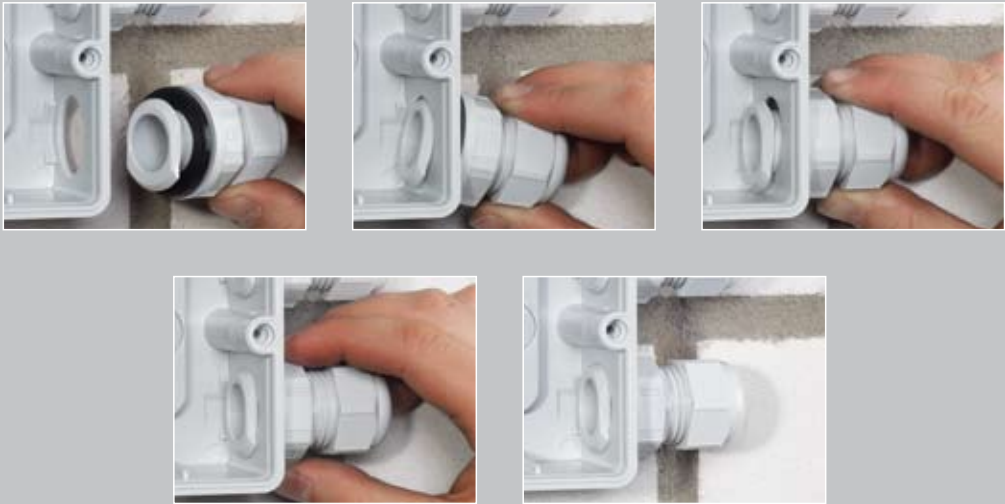


- **for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)**
 - the cable gland can be mounted without locknut
 - preferably when it is difficult to mount a lock nut in boxes
 - with strain relief
- material: thermoplastic
 - colour: grey, RAL 7035



Cable glands
degree of protection: IP 65
glow wire test IEC 60 695-2-11 750°C

AFM 16	for knockouts M 16	sealing range Ø 5-10 mm	bore-hole Ø 16,3 mm	wall thickness to 1-4 mm
AFM 20	for knockouts M 20	sealing range Ø 8-13 mm	bore-hole Ø 20,3 mm	wall thickness to 1-4 mm
AFM 25	for knockouts M 25	sealing range Ø 11-17 mm	bore-hole Ø 25,3 mm	wall thickness to 1-4 mm
AFM 32	for knockouts M 32	sealing range Ø 15-21 mm	bore-hole Ø 32,3 mm	wall thickness to 1-4 mm



LES Cable entry systems

Cable glands



- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- with strain relief and locknut

- material: thermoplastic
- colour: black, RAL 9005

Cable glands degree of protection IP 66 / IP 67 glow wire test IEC 60 695-2-11 960°C				
ASS 12	ISO thread M 12 x 1.5	sealing range Ø 2-5 mm	bore-hole Ø 12.5 mm	wall thickness to 3 mm
ASS 16	ISO thread M 16 x 1.5	sealing range Ø 3-10 mm	bore-hole Ø 16.5 mm	wall thickness to 3 mm
ASS 20	ISO thread M 20 x 1.5	sealing range Ø 5-13.5 mm	bore-hole Ø 20.5 mm	wall thickness to 3 mm
ASS 25	ISO thread M 25 x 1.5	sealing range Ø 8-17 mm	bore-hole Ø 25.5 mm	wall thickness to 3 mm
ASS 32	ISO thread M 32 x 1.5	sealing range Ø 12-21 mm	bore-hole Ø 32.5 mm	wall thickness to 3 mm
ASS 40	ISO thread M 40 x 1.5	sealing range Ø 16-28.5 mm	bore-hole Ø 40.5 mm	wall thickness to 3 mm
ASS 50	ISO thread M 50 x 1.5	sealing range Ø 21-35 mm	bore-hole Ø 50.5 mm	wall thickness to 3 mm
ASS 63	ISO thread M 63 x 1.5	sealing range Ø 27-48 mm	bore-hole Ø 63.5 mm	wall thickness to 3 mm

For cable glands for hazardous areas refer to index DK Cable junction boxes.



KST 70 Stepped grommet

for indoor - normal environment and (or) protected outdoor installation

material: thermoplastic

colour: grey, RAL 7035

degree of protection IP 65

sealing range: Ø 30-72 mm

bore-hole Ø 83 mm

wall thickness: 1.5-3 mm



MV FP 66 Flange

with cable entry glands and screws

material: thermoplastic

colour: grey, RAL 7032

degree of protection IP 55

sealing range: Ø 30-72 mm

wall thickness: at least 1.5 mm



KHR 01 Cable retention

Set with 10 x 6 cable retentions

30 pieces for cable diameter: 6.5 - 10 mm

30 pieces for cable diameter: 10 - 14 mm



KHR 02 Cable retention

Set with 10 x 6 cable retentions

30 pieces for cable diameter: 10 - 14 mm

30 pieces for cable diameter: 13 - 16 mm



New product of Hensel: Ventilation and cable entry in one!

In general the formation of water in case of condensation in closed enclosures cannot be prevented in installation areas with high temperature differences!

Openings for pressure compensation



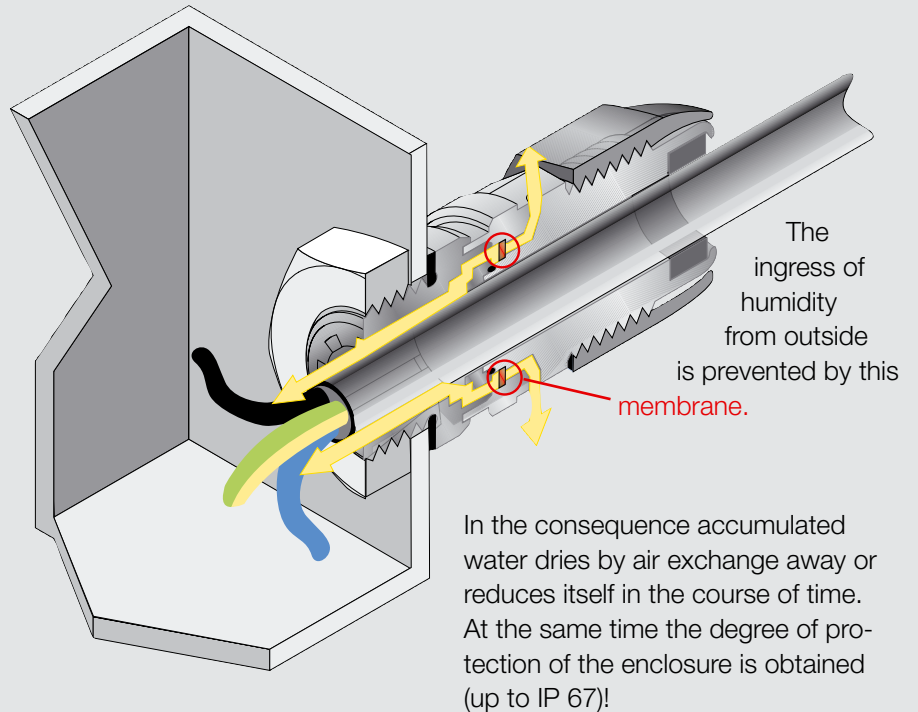
Duct for air exchange

The new combi climate gland allows the cable entry and pressure com- pensation additionally.

Combi climate glands prevent accumulations of condensation, which can form among others by large temperature fluctuations, like changing weather, intensive solar irradiation etc., in enclosures with high degree of protection.

For adherence to the requested degree of protection the ventilation of the enclosure is effected via a special combi climate gland.

Via an inserted, breathable membrane combi climate glands ensure pressure compensation between enclosure interior and ambient air.



Your advantages with the new combi climate glands:

- Cable entry and ventilation in one!
- Degree of protection of enclosure is obtained

LES Cable entry systems

Combi climate glands cable entry and ventilation in one

- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- with strain relief and locknut

- material: thermoplastic
- **degree of protection: IP 66 / IP 67**
- colour: grey, RAL 7032



KBM 20	Combi climate gland
	glow wire test IEC 60 695-2-11 960°C ISO thread: M 20 x 1.5 sealing range: Ø 6-13 mm bore-hole: Ø 20.5 mm wall thickness: up to 3.5 mm In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M20 must be used per 6 litres (6000 cm³) of enclosure volume. Example: enclosure size 27 cm x 27 cm x 17 cm = 12393 cm³ = 12.393 litres. Number of necessary combi climate glands M20 ≥ 3 pieces.



KBM 25	Combi climate gland
	glow wire test IEC 60 695-2-11 960°C ISO thread: M 25 x 1.5 sealing range: Ø 9-17 mm bore-hole: Ø 25.5 mm wall thickness: up to 3.5 mm In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M25 must be used per 11 litres (11000 cm³) of enclosure volume. Example: enclosure size 27 cm x 27 cm x 17 cm = 12393 cm³ = 12.393 litres. Number of necessary combi climate glands M25 ≥ 2 pieces



KBM 32	Combi climate gland
	glow wire test IEC 60 695-2-11 960°C ISO thread: M 32 x 1.5 sealing range: Ø 13-21 mm bore-hole: Ø 32.5 mm wall thickness: up to 3.5 mm In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M32 must be used per 13 litres (13000 cm³) of enclosure volume. Example: enclosure size 27 cm x 27 cm x 17 cm = 12393 cm³ = 12.393 litres. Number of necessary combi climate glands M32 ≥ 1 piece.



VSB 13	Sealing plug
	diameter: 13 mm for sealing combi climate glands M20 or M25, which are not used for cable entry material: thermoplastic colour: red, RAL 3000



VSB 21	Sealing plug
	diameter: 21 mm for sealing combi climate glands M25 or M32, which are not used for cable entry material: thermoplastic colour: red, RAL 3000

Assignment of cable outside diameters to combi climate glands

Cable entry metric	Outside diameters of cables	
	min. mm Ø	max. mm Ø
KBM/KBS 20	6	13
KBM/KBS 25	9	17
KBM/KBS 32	13	21

When using different gland sizes the values for the enclosure volumes of the used combi climate glands can be added on. If the quantity of the necessary climate glands for pressure compensation is larger, than the number of necessary cable glands für cable entry, the unused climate glands can be sealed with sealing plugs.

LES Cable entry systems

Combi climate glands cable entry and ventilation in one

- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- with strain relief and locknut

- material: thermoplastic
- **degree of protection: IP 66 / IP 67**
- colour: black, RAL 9005



KBS 20 Combi climate gland

glow wire test IEC 60 695-2-11 960°C
 ISO thread: M 20 x 1.5
 sealing range: Ø 6-13 mm
 bore-hole: Ø 20.5 mm
 wall thickness: up to 3.5 mm
 In order not to exceed leakage limit of 0.07 bar with pressure compensation,
one combi climate gland M20 must be used per 6 litres (6000 cm³)
 of enclosure volume.
 Example: enclosure size 27 cm x 27 cm x 17 cm = 12393 cm³ = 12,393 litres.
 Number of necessary combi climate glands M20 ≥ 3 pieces.



KBS 25 Combi climate gland

glow wire test IEC 60 695-2-11 960°C
 ISO thread: M 25 x 1.5
 sealing range: Ø 9-17 mm
 bore-hole: Ø 25.5 mm
 wall thickness: up to 3.5 mm
 In order not to exceed leakage limit of 0.07 bar with pressure compensation,
one combi climate gland M25 must be used per 11 litres (11000 cm³)
 of enclosure volume.
 Example: enclosure size 27 cm x 27 cm x 17 cm = 12393 cm³ = 12,393 litres.
 Number of necessary combi climate glands M25 ≥ 2 pieces.



KBS 32 Combi climate gland

glow wire test IEC 60 695-2-11 960°C
 ISO thread: M 32 x 1.5
 sealing range: Ø 13-21 mm
 bore-hole: Ø 32.5 mm
 wall thickness: up to 3.5 mm
 In order not to exceed leakage limit of 0.07 bar with pressure compensation,
one combi climate gland M32 must be used per 13 litres (13000 cm³)
 of enclosure volume.
 Example: enclosure size 27 cm x 27 cm x 17 cm = 12393 cm³ = 12,393 litres.
 Number of necessary combi climate glands M32 ≥ 1 piece.



VSB 13 Sealing plug

diameter: 13 mm
 for sealing combi climate glands M20 or M25, which are not used for cable entry
 material: thermoplastic
 colour: red, RAL 3000



VSB 21 Sealing plug

diameter: 21 mm
 for sealing combi climate glands M25 or M32, which are not used for cable entry
 material: thermoplastic
 colour: red, RAL 3000

Assignment of cable outside diameters to combi climate glands

Cable entry metric	Outside diameters of cables	
	min. mm Ø	max. mm Ø
KBM/KBS 20	6	13
KBM/KBS 25	9	17
KBM/KBS 32	13	21

When using different gland sizes the values for the enclosure volumes of the used combi climate glands can be added on. If the quantity of the necessary climate glands for pressure compensation is larger, than the number of necessary cable glands für cable entry, the unused climate glands can be sealed with sealing plugs.

Assignment of cable outside diameters to cable entries (glands, grommets etc.)

Cable entry metric	Outside diameters of cables	
	min. mm Ø	max. mm Ø
ASM/AKM/ASS 12	3	6.5
ASM/AKM/ASS 16	5	10
ASM/AKM/ASS 20	6.5	13.5
ASM/AKM/ASS 25	10	17
ASM/AKM/ASS 32	14	21
ASM/AKM/ASS 40	20	28.5
ASM/AKM/ASS 50	25	35
ASM/AKM 63	35	48
ESM 16	4.8	11
ESM 20	6	13
ESM 25	9	17
ESM 32	9	23
ESM 40	17	30
STM 16	3.5	12
STM 20	5	16
STM 25	5	21
STM 32	13	26.5
STM 40	13	34

Cable entry metric	Outside diameters of cables	
	min. mm Ø	max. mm Ø
EDK 16	5	10
EDK 20	6	13
EDK 25	9	17
EDK 32	8	23
EDK 40	11	30
conduit connection		
EDR 16	M 16	
EDR 20	M 20	
EDR 25	M 25	
EDR 32	M 32	
EDR 40	M 40	

Outside diameter of conventional cable cross sections. The outside diameters are average values of different products.

Cable cross section	NYM	NYY	NYCY NYCWY
mm ²	mm Ø	mm Ø	mm Ø
1x4	8	9	—
1x6	8.5	10	—
1x10	9.5	10.5	—
1x16	11	12	—
1x25	—	14	—
1x35	—	15	—
1x50	—	16.5	—
1x70	—	18	—
1x95	—	20	—
1x120	—	21	—
1x150	—	23	—
1x185	—	25	—
1x240	—	28	—
1x300	—	30	—
2x1.5	10	12	—
2x2.5	11	13	—
2x4	—	15	—
2x6	—	16	—
2x10	—	18	—
2x16	—	20	—
2x25	—	—	—
2x35	—	—	—
3x1.5	10.5	12.5	13
3x2.5	11	13	14
3x4	13	16	16
3x6	15	17	17
3x10	18	19	18
3x16	20	21	21
3x25	—	26	—
3x35	—	—	—
3x50	—	—	—
3x70	—	—	—
3x95	—	—	—
3x120	—	—	—
3x150	—	—	—
3x185	—	—	—
3x240	—	—	—
3x25/16	—	27	27
3x35/16	—	28	27
3x50/25	—	32	32
3x70/35	—	32-36	36
3x95/50	—	37-41	40
3x120/70	—	42	43
3x150/70	—	46	47
3x185/95	—	52	48-54
3x240/120	—	57-63	60
3x300/150	—	63-69	—

Cable cross section	NYM	NYY	NYCY NYCWY
mm ²	mm Ø	mm Ø	mm Ø
4x1.5	11	13.5	14
4x2.5	12.5	14.5	15
4x4	14.5	17.5	17
4x6	16.5	18	18
4x10	18.5	20	20
4x16	23.5	23	23
4x25	28.5	28	28
4x35	32	26-30	29
4x50	—	30-35	34
4x70	—	34-40	37
4x95	—	38-45	42
4x120	—	42-50	47
4x150	—	46-53	52
4x185	—	53-60	60
4x240	—	59-71	70
4x25/16	—	—	30
4x35/16	—	—	30
4x50/25	—	—	36.5
4x70/35	—	—	40
4x95/50	—	—	44.5
4x120/70	—	—	48.5
4x150/70	—	—	53
4x185/95	—	—	—
4x240/120	—	—	—
5x1.5	12	15	15
5x2.5	13.5	16	17
5x4	15.5	16.5	18
5x6	18	19	20
5x10	20	21	—
5x16	26	24	—
5x25	31.5	—	—
7x1.5	13	16	—
7x2.5	14.5	16.5	—
19x1.5	—	22	—
24x1.5	—	25	—

LES Cable entry systems

Pg Cable glands



- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- with strain relief and locknut
- material: Thermoplastic
- colour: grey, RAL 7035

Cable glands degree of protection: IP 65		
AKS 9	sealing range Ø 4-8 mm	bore-hole Pg 9, Ø 15.5 mm
AKS 11	sealing range Ø 5-10 mm	bore-hole Pg 11, Ø 19 mm
AKS 13.5	sealing range Ø 6-12 mm	bore-hole Pg 13.5, Ø 21 mm
AKS 16	sealing range Ø 10-14 mm	bore-hole Pg 16, Ø 23 mm
AKS 21	sealing range Ø 13-18 mm	bore-hole Pg 21, Ø 29 mm
AKS 29	sealing range Ø 18-25 mm	bore-hole Pg 29, Ø 37.5 mm
AKS 36	sealing range Ø 22-32 mm	bore-hole Pg 36, Ø 47.5 mm
AKS 42	sealing range Ø 30-38 mm	bore-hole Pg 42, Ø 54.5 mm
AKS 48	sealing range Ø 34-44 mm	bore-hole Pg 48, Ø 60 mm



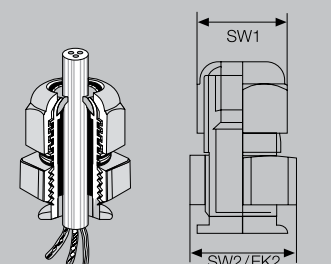
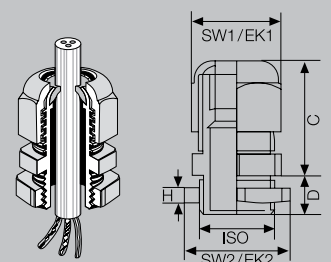
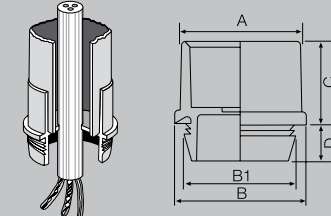
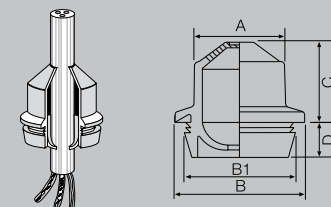
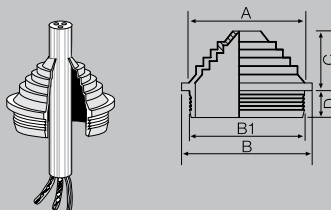
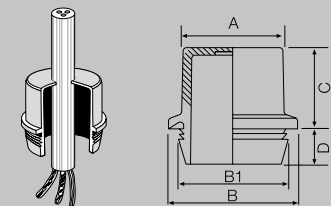
ENYCASE
ENYBOARD
ENYSTAR®
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ENYSUN
ENYFIT



Dimensions
Operating and ambient conditions

426 - 427
428

Dimensions



Grommets

in mm	A	B	B1	C	D
ESM 16	16.5	22	18.5	14.5	8.5
ESM 20	20.5	26	22.5	14.5	8.5
ESM 25	26.0	31	27.5	14.5	8.5
ESM 32	33.0	38	34.5	17.5	8.5
ESM 40	41.0	46	42.5	17.5	8.5

Grommets ESM

Degree of protection IP 55
Grommets ESM are inserted into knockouts.

Stepped grommet

in mm	A	B	B1	C	D
STM 16	13.2	21.2	19	7.4	8.0
STM 20	18.0	25	23	9.2	8.0
STM 25	21.6	30	28	11.5	7.4
STM 32	27.6	37	35	11.5	8.6
STM 40	33.6	45	43	15.1	8.6

Stepped grommets STM

Degree of protection IP 55
Stepped glands STM are inserted into knockouts.

Grommets

in mm	A	B	B1	C	D
EDK 16	14.5	22	18.5	13.5	8.5
EDK 20	18.5	26	22.5	14.5	8.5
EDK 25	23.5	31	27.5	14.5	8.5
EDK 32	30.5	38	34.5	19.5	8.5
EDK 40	38.5	46	42.5	19.5	8.5

Grommets EDK

Degree of protection IP 65
Grommets EDK are inserted into knockouts.

Grommets for conduits

in mm	A	B	B1	C	D
EDR 16	20	22	18.5	14.5	8.5
EDR 20	24	26	22.5	14.5	8.5
EDR 25	29	31	27.5	14.5	8.5
EDR 32	36	38	34.5	17.5	8.5
EDR 40	44	46	42.5	17.5	8.5

Grommets for conduits EDR

Degree of protection IP 65
Grommets for conduits EDR are inserted into knockouts.

Cable glands ASM/AKM/ASS

with strain relief and counternut, degree of protection IP 65.

Threaded cable glands

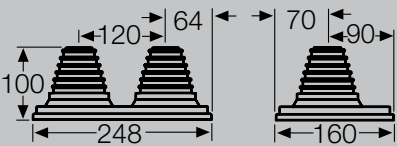
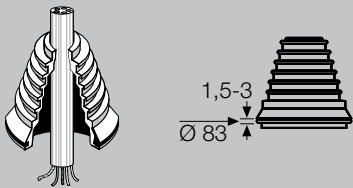
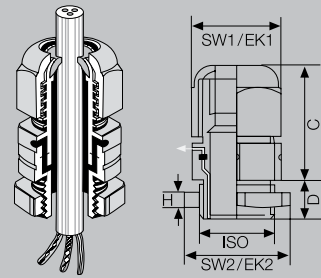
in mm	ISO	SW1 across flats	EK1 across corners Ø	C max.	D	SW2 across flats	EK2 across corners Ø	H
ASM/AKM/ASS 12	M 12	15	16.4	22	8	17	19.0	5
ASM/AKM/ASS 16	M 16	20	22.0	26	8	22	24.7	5
ASM/AKM/ASS 20	M 20	24	26.5	29	8	27	30.2	6
ASM/AKM/ASS 25	M 25	29	32.0	34	8	32	36.0	6
ASM/AKM/ASS 32	M 32	36	39.7	39	10	41	46.0	7
ASM/AKM/ASS 40	M 40	46	50.5	46	10	50	54.1	7
ASM/AKM/ASS 50	M 50	55	60.0	51	10	60	66.3	8
ASM/AKM/ASS 63	M 63	68	74.7	55	10	75	83.0	8

Cable glands AFM

with strain relief

in mm	SW1 across flats	SW2 across flats	EK2 across corners Ø
AFM 16	20	24	26.5
AFM 20	24	26	29.0
AFM 25	29	32	36.0
AFM 32	36	42	46.0

Dimensions



Combi climate glands KBM / KBS

with strain relief and counternut, degree of protection IP 66 / IP 67.

Combi climate glands - cable entry and ventilation in one

	ISO	SW1	EK1	C	D	SW2	EK2	H
in mm		across flats	across corners Ø	max.		across flats	across corners Ø	
KBM/KBS 20	M 20	24	27.0	42	8	27	29.0	5
KBM/KBS 25	M 25	29	32.0	45	8	32	35.5	5
KBM/KBS 32	M 32	36	40.0	47	10	40	44.5	6

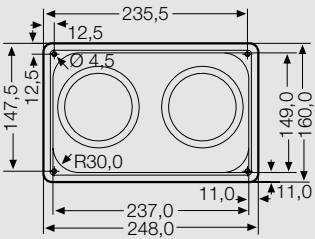
Stepped grommet KST 70

Degree of protection IP 65

Flange MV FP 66

Degree of protection IP 55

for retrofitting onto boxes made of sheet steel
material thickness ≥ 1.5 mm



ENVYCASE	Operating and ambient conditions	ESM ... STM ... EDK ... EDR ... KST ... MV FP 66	Ste ...	ASM ... AKS ...	ASS ... KBM ... KBS ...	AKM ...	AFM ...
ENVYBOARD	Application area	suitable for indoor installation (normal environment and/or protected outdoor)		Suitable for outdoor installation - harsh environment and / or outdoor			
ENVYSTAR®		Resistant to occasional cleaning procedures (direct jet) max. with high-pressure cleaner without additives water pressure: max. 65 bar, water temperature: max. 50° C, distance ≥ 0.5 m box and cable entries at least IP 65					
ENVYSTAR®	Ambient temperature - Average value over 24 hours - Maximum value - Minimum value	+ 35° C + 40° C – 25° C	+ 35° C + 40° C – 25° C	+ 55° C + 70° C – 25° C	+ 55° C + 70° C – 25° C	+ 55° C + 70° C – 25° C	+ 55° C + 70° C – 20° C
ENVYMOD	Fire protection in the event of internal faults	Demands placed on electrical devices from standards and laws Minimum requirements - Glow wire test in accordance with IEC 60 695-2-11 - 650° C for boxes and cable glands					
ENVYSUN	Burning behaviour - Glow wire test IEC 60 695-2-11 - UL Subject 94	750° C – flame-retardant self-extinguishing	650° C –	960° C V-0 flame-retardant self-extinguishing	960° C V-2 flame-retardant self-extinguishing	750° C V-2 flame-retardant self-extinguishing	750° C V-2 flame-retardant self-extinguishing
	Toxic behaviour	halogen-free ³⁾ silicone-free	— silicone-free	halogen-free silicone-free	halogen-free silicone-free	halogen-free silicone-free	halogen-free silicone-free
ENVYFIT		3) “Halogen-free” in accordance with IEC 754-2 “Common test methods for cables - Determination of the amount of halogen acid gas”. To material properties see technical data.					