



LES Cable Entry Systems

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ESM 16
Grommets
for knockouts M 16



- sealing range: Ø 4,8-11 mm
- bore-hole: Ø 16.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



ESM 20
Grommets
for knockouts M 20



- sealing range: Ø 6-13 mm
- bore-hole: Ø 20.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



ESM 25
Grommets
for knockouts M 25



- sealing range: Ø 9-17 mm
- bore-hole: Ø 25.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



ESM 32
Grommets
for knockouts M 32



- sealing range: Ø 9-23 mm
- bore-hole: Ø 32.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



ESM 40
Grommets
for knockouts M 40



- sealing range: Ø 17-30 mm
- bore-hole: Ø 40.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



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ENYFIT



STM 16
Stepped grommet
for knockouts M 16



- sealing range: Ø 3,5-12 mm
- bore-hole: Ø 16.5 mm
- wall thickness 1.5-4 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



ENYCASE



STM 20
Stepped grommet
for knockouts M 20



- sealing range: Ø 5-16 mm
- bore-hole: Ø 20.5 mm
- wall thickness 1.5-4 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



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STM 25
Stepped grommet
for knockouts M 25



- sealing range: Ø 5-21 mm
- bore-hole: Ø 25.5 mm
- wall thickness 1.5-4 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



ENYSTAR



STM 32
Stepped grommet
for knockouts M 32



- sealing range: Ø 13-26,5 mm
- bore-hole: Ø 32.5 mm
- wall thickness 1.5-4 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



ENYMOD



STM 40
Stepped grommet
for knockouts M 40



- sealing range: Ø 13-34 mm
- bore-hole: Ø 40.5 mm
- wall thickness 1.5-4 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



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EDK 16
Grommets
for knockouts M 16



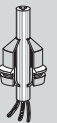
- sealing range: Ø 5-10 mm
- bore-hole: Ø 16.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



EDK 20
Grommets
for knockouts M 20



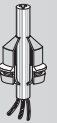
- sealing range: Ø 6-13 mm
- bore-hole: Ø 20.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



EDK 25
Grommets
for knockouts M 25



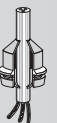
- sealing range: Ø 9-17 mm
- bore-hole: Ø 25.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



EDK 32
Grommets
for knockouts M 32



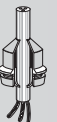
- sealing range: Ø 8-23 mm
- bore-hole: Ø 32.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



EDK 40
Grommets
for knockouts M 40



- sealing range: Ø 11-30 mm
- bore-hole: Ø 40.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



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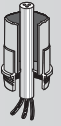
ENYFIT



EDR 16

Grommets for conduits for knockouts M 16

- conduit connection M 16
- bore-hole: Ø 16.5 mm
- wall thickness 1.5-3.2 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



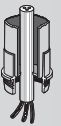
ENYCASE



EDR 20

Grommets for conduits for knockouts M 20

- conduit connection M 20
- bore-hole: Ø 20.5 mm
- wall thickness 1.5-3.2 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



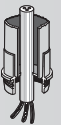
ENYBOARD



EDR 25

Grommets for conduits for knockouts M 25

- Rohranschluss M 25
- bore-hole: Ø 25.5 mm
- wall thickness 1.5-3.2 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



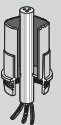
ENYSTAR



EDR 32

Grommets for conduits for knockouts M 32

- conduit connection M 32
- bore-hole: Ø 32.5 mm
- wall thickness 1.5-3.2 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



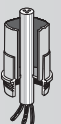
ENYMOD



EDR 40

Grommets for conduits 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 installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



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AKM 12
Cable glands
for knockouts M 12



- sealing range: Ø 4-6 mm
- ISO thread M 12 x 1.5
- bore-hole: Ø 12.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	0,9 Nm
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AKM 16
Cable glands
for knockouts M 16



- sealing range: Ø 5-10 mm
- ISO thread M 16 x 1.5
- bore-hole: Ø 16.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	3,0 Nm
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AKM 20
Cable glands
for knockouts M 20



- sealing range Ø 6,5-13,5 mm
- ISO thread M 20 x 1.5
- bore-hole: Ø 20.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	4,0 Nm
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AKM 25
Cable glands
for knockouts M 25



- sealing range Ø 11-17 mm
- ISO thread M 25 x 1.5
- bore-hole: Ø 25.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	7,5 Nm
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AKM 32
Cable glands
for knockouts M 32



- sealing range \varnothing 15-21 mm
- ISO thread M 32 x 1.5
- bore-hole: \varnothing 32.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	10,0 Nm
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AKM 40
Cable glands
for knockouts M 40



- sealing range: \varnothing 19-28 mm
- ISO thread M 40 x 1.5
- bore-hole: \varnothing 40.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	10,0 Nm
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AKM 50
Cable glands
for knockouts M 50



- sealing range: \varnothing 27-35 mm
- ISO thread M 50 x 1.5
- bore-hole: \varnothing 50.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	10,0 Nm
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AKM 63
Cable glands
for knockouts M 63



- sealing range: \varnothing 35-48 mm
- ISO thread M 63 x 1.5
- bore-hole: \varnothing 63.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	10,0 Nm
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ASM 12
Cable glands
for knockouts M 12



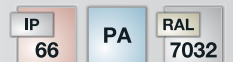
- sealing range: Ø 4-6 mm
- ISO thread M 12 x 1.5
- bore-hole: Ø 12.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	0,7 Nm
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ASM 16
Cable glands
for knockouts M 16



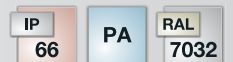
- sealing range: Ø 5-10 mm
- ISO thread M 16 x 1.5
- bore-hole: Ø 16.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	2,0 Nm
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ASM 20
Cable glands
for knockouts M 20



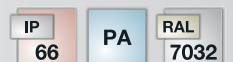
- sealing range Ø 6,5-13,5 mm
- ISO thread M 20 x 1.5
- bore-hole: Ø 20.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	2,7 Nm
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ASM 25
Cable glands
for knockouts M 25



- sealing range Ø 11-17 mm
- ISO thread M 25 x 1.5
- bore-hole: Ø 25.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	5,0 Nm
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ASM 32

**Cable glands
for knockouts M 32**

- sealing range \varnothing 15-21 mm
- ISO thread M 32 x 1.5
- bore-hole: \varnothing 32.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



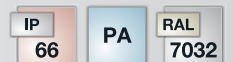
tightening torque	7,5 Nm
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ASM 40

**Cable glands
for knockouts M 40**

- sealing range: \varnothing 19-28 mm
- ISO thread M 40 x 1.5
- bore-hole: \varnothing 40.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	10 Nm
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ASM 50

**Cable glands
for knockouts M 50**

- sealing range: \varnothing 27-35 mm
- ISO thread M 50 x 1.5
- bore-hole: \varnothing 50.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



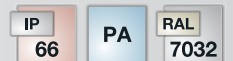
tightening torque	7,5 Nm
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ASM 63

**Cable glands
for knockouts M 63**

- sealing range: \varnothing 35-48 mm
- ISO thread M 63 x 1.5
- bore-hole: \varnothing 63.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	7,5 Nm
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AFM 16

Cable glands for knockouts M 16



- sealing range: Ø 5-10 mm
- bore-hole: Ø 16.3 mm
- wall thickness 1-4 mm
- the cable gland can be mounted without locknut
- Especially useful when it is difficult to mount a lock nut in boxes.
- with strain relief
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 20 °C up to + 55 °C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	2,0 Nm
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AFM 20

Cable glands for knockouts M 20



- sealing range: Ø 8-13 mm
- bore-hole: Ø 20.3 mm
- wall thickness 1-4 mm
- the cable gland can be mounted without locknut
- Especially useful when it is difficult to mount a lock nut in boxes.
- with strain relief
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 20 °C up to + 55 °C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	2,7 Nm
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AFM 25

Cable glands for knockouts M 25



- sealing range Ø 11-17 mm
- bore-hole: Ø 25.3 mm
- wall thickness 1-4 mm
- the cable gland can be mounted without locknut
- Especially useful when it is difficult to mount a lock nut in boxes.
- with strain relief
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 20 °C up to + 55 °C
- glow wire test IEC 60 695-2-11: 750° C

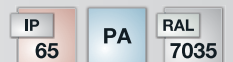


tightening torque	5,0 Nm
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AFM 32

Cable glands for knockouts M 32



- sealing range Ø 15-21 mm
- bore-hole: Ø 32.3 mm
- wall thickness 1-4 mm
- the cable gland can be mounted without locknut
- Especially useful when it is difficult to mount a lock nut in boxes.
- with strain relief
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 20 °C up to + 55 °C
- glow wire test IEC 60 695-2-11: 750° C



tightening torque	7,5 Nm
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ASS 12
Cable glands
for knockouts M 12



- sealing range: Ø 2-5 mm
- ISO thread M 12 x 1.5
- bore-hole: Ø 12.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C

tightening torque	0,9 Nm
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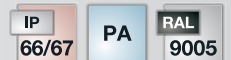


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ASS 16
Cable glands
for knockouts M 16



- sealing range: Ø 3-10 mm
- ISO thread M 16 x 1.5
- bore-hole: Ø 16.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C

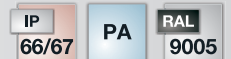
tightening torque	3,0 Nm
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ENYSTAR



ASS 20
Cable glands
for knockouts M 20



- sealing range: Ø 5-13,5 mm
- ISO thread M 20 x 1.5
- bore-hole: Ø 20.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C

tightening torque	4,0 Nm
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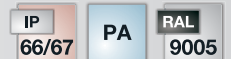


ENYMOD

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ASS 25
Cable glands
for knockouts M 25



- sealing range: Ø 8-17 mm
- ISO thread M 25 x 1.5
- bore-hole: Ø 25.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C

tightening torque	7,5 Nm
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ASS 32
Cable glands
for knockouts M 32

IP 66/67 PA RAL 9005

- sealing range: Ø 12-21 mm
- ISO thread M 32 x 1.5
- bore-hole: Ø 32.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	10,0 Nm
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ASS 40
Cable glands
for knockouts M 40

IP 66/67 PA RAL 9005

- sealing range: Ø 16-28,5 mm
- ISO thread M 40 x 1.5
- bore-hole: Ø 40.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	10,0 Nm
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ASS 50
Cable glands
for knockouts M 50

IP 66/67 PA RAL 9005

- sealing range: Ø 21-35 mm
- ISO thread M 50 x 1.5
- bore-hole: Ø 50.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



tightening torque	10,0 Nm
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ASS 63
Cable glands
for knockouts M 63

IP 66/67 PA RAL 9005

- sealing range: Ø 27-48 mm
- ISO thread M 63 x 1.5
- bore-hole: Ø 63.3 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C



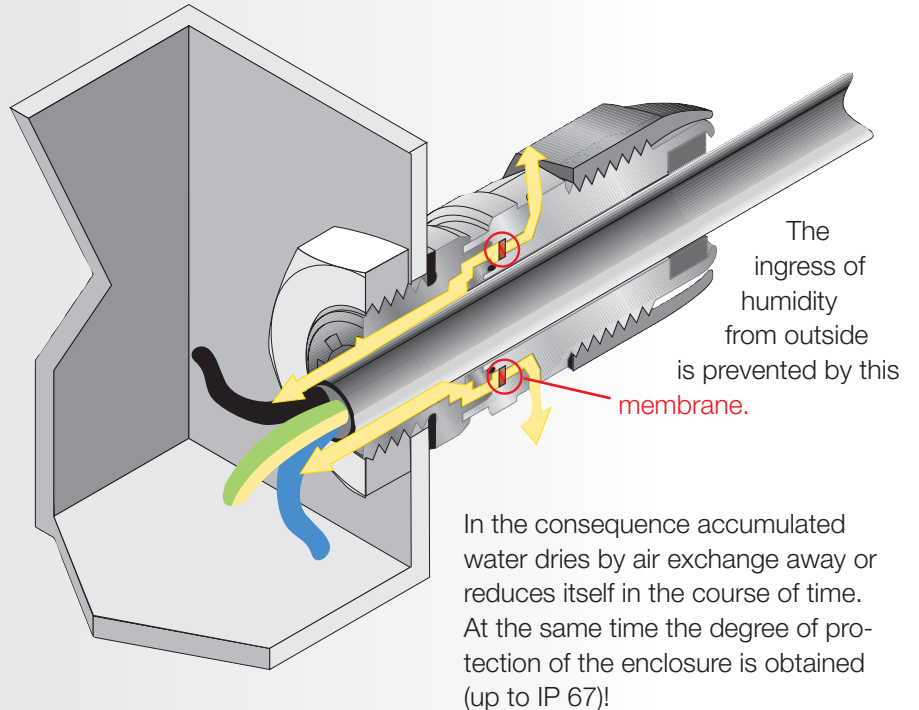
tightening torque	10,0 Nm
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**New product of Hensel:
Ventilation and cable entry
in one!**

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



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.



The combi climate gland allows the cable entry and pressure compensation 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.



Your advantages with combi climate glands:

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



KBM 20

Combi climate gland for knockouts M 20



- for the reduction of condensation by pressure compensation
- sealing range: Ø 6-13 mm
- ISO thread M 20 x 1.5
- bore-hole: Ø 20.5 mm
- wall thickness up to 3,5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C
- 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.
- 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 for cable entry, the unused climate glands can be sealed with sealing plugs.



tightening torque	3,0 Nm
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KBM 25

Combi climate gland for knockouts M 25



- for the reduction of condensation by pressure compensation
- sealing range: Ø 9-17 mm
- ISO thread M 25 x 1.5
- bore-hole: Ø 25.5 mm
- wall thickness up to 3,5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C
- In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M25 must be used per 10 litres (10000 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
- 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 for cable entry, the unused climate glands can be sealed with sealing plugs.



tightening torque	4,0 Nm
-------------------	--------



KBM 32

Combi climate gland for knockouts M 32



- for the reduction of condensation by pressure compensation
- sealing range: Ø 13-21 mm
- ISO thread M 32 x 1.5
- bore-hole: Ø 32.5 mm
- wall thickness up to 3,5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C
- In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M32 must be used per 12 litres (12000 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 ≥ 2 piece.
- 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.

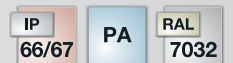


tightening torque	4,0 Nm
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KBM 40

Combi climate gland for knockouts M 40



- for the reduction of condensation by pressure compensation
- sealing range: Ø 16-28 mm
- ISO thread M 40 x 1.5
- bore-hole: Ø 40.5 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C
- In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M40 must be used per 16 litres (16000 cm³) of enclosure volume.
- Example: enclosure size 27 cm x 27 cm x 17 cm = 12393 cm³ = 12.393 litres. Number of necessary KB. 40 (M40) ≥ 1 piece.
- 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.

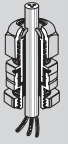
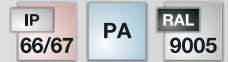


tightening torque	6,0 Nm
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KBS 20

Combi climate gland for knockouts M 20



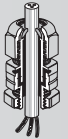
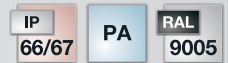
- for the reduction of condensation by pressure compensation
- sealing range: Ø 6-13 mm
- ISO thread M 20 x 1.5
- bore-hole: Ø 20.5 mm
- wall thickness up to 3,5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C
- 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.
- 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 for cable entry, the unused climate glands can be sealed with sealing plugs.

tightening torque	3,0 Nm
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KBS 25

Combi climate gland for knockouts M 25



- for the reduction of condensation by pressure compensation
- sealing range: Ø 9-17 mm
- ISO thread M 25 x 1.5
- bore-hole: Ø 25.5 mm
- wall thickness up to 3,5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C
- In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M25 must be used per 10 litres (10000 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
- 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 for cable entry, the unused climate glands can be sealed with sealing plugs.

tightening torque	4,0 Nm
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ENYCASE

ENYBOARD

ENYSTAR

ENYMOD

ENYFIT

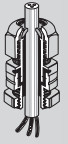


KBS 32

**Combi climate gland
for knockouts M 32**



- for the reduction of condensation by pressure compensation
- sealing range: Ø 13-21 mm
- ISO thread M 32 x 1.5
- bore-hole: Ø 32.5 mm
- wall thickness up to 3,5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C
- In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M32 must be used per 12 litres (12000 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 ≥ 2 piece.
- 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 for cable entry, the unused climate glands can be sealed with sealing plugs.



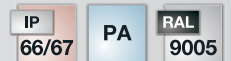
tightening torque

4,0 Nm



KBS 40

**Combi climate gland
for knockouts M 40**



- for the reduction of condensation by pressure compensation
- sealing range: Ø 16-28 mm
- ISO thread M 40 x 1.5
- bore-hole: Ø 40.5 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- glow wire test IEC 60 695-2-11: 960°C
- In order not to exceed leakage limit of 0.07 bar with pressure compensation, one combi climate gland M40 must be used per 16 litres (16000 cm³) of enclosure volume.
- Example: enclosure size 27 cm x 27 cm x 17 cm = 12393 cm³ = 12.393 litres. Number of necessary KB. 40 (M40) ≥ 1 piece.
- 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 for cable entry, the unused climate glands can be sealed with sealing plugs.



tightening torque

6,0 Nm



VSB 13

Sealing plug
diameter 13 mm



- for sealing combi climate glands M20 or M25, which are not used for cable entry
- ambient temperature - 25° to + 55° C



VSB 21

Sealing plug
diameter 21 mm



- for sealing combi climate glands M32 and M40, which are not used for cable entry
- ambient temperature - 25° to + 55° C

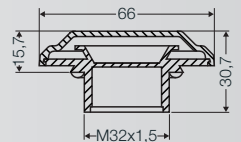


BM 32

Pressure compensation element
for M 32 knockouts



- for the reduction of condensation by pressure compensation in power distribution systems
- ISO thread M 32 x 1.5
- bore-hole: Ø 32.3 mm
- wall thickness of up to 8 mm
- with counter nut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- In order not to exceed leakage limit of 0.07 bar with pressure compensation, one pressure compensation element BM 32 must be used per 42 litres (42000 cm³) of enclosure volume.
- Example: enclosure size 30 cm x 60 cm x 17 cm = 30600 cm³ = 30,6 litres. Number of necessary BM 32 (M32) = 1 piece.





KST 70

Stepped grommet

- sealing range: Ø 30-72 mm
- bore-hole: Ø 83 mm
- wall thickness 1.5-3 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C
- glow wire test IEC 60 695-2-11: 750° C



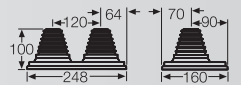
ENYCASE



MV FP 66

flange

- with cable entry glands and screws
- sealing range: Ø 30-72 mm
- wall thickness of at least 1.5 mm



ENYBOARD



KHR 01

**Cable retention
for cable diameter 6,5 - 14 mm**

- set with 10 x 6 cable retention rings
- 30 pieces for cable diameter 6,5 - 10 mm
- 30 pieces for cable diameter 10 - 14 mm

ENYSTAR



KHR 02

**Cable retention
for cable diameter 10 - 16 mm**

- set with 10 x 6 cable retention rings
- 30 pieces for cable diameter 10 - 14 mm
- 30 pieces for cable diameter 13 - 16 mm

ENYMOD

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AKS 9
for knockouts Pg 9



- sealing range: Ø 4-8 mm
- for bore-hole Pg 9, Ø 15.5 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



AKS 11
for knockouts Pg 11



- sealing range: Ø 5-10 mm
- for bore-hole Pg 11, Ø 19 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



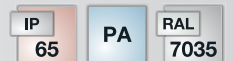
AKS 13,5
for knockouts Pg 13.5



- sealing range: Ø 6-12 mm
- bore-hole Pg 13,5, Ø 21 mm
- Wall thickness up to 3 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



AKS 16
for knockouts Pg 16



- sealing range: Ø 10-14 mm
- for bore-hole Pg 16, Ø 23 mm
- wall thickness up to 4 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



AKS 21
for knockouts Pg 21



- sealing range: Ø 13-18 mm
- for bore-hole Pg 21, Ø 29 mm
- wall thickness up to 4 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



ENYCASE

ENYBOARD

ENYSTAR

ENYMOD

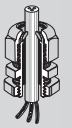
ENYFIT



AKS 29
for knockouts Pg 29



- sealing range: Ø 18-25 mm
- for bore-hole Pg 29, Ø 37.5 mm
- wall thickness up to 4 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



ENYCASE



AKS 36
for knockouts Pg 36



- sealing range: Ø 22-32 mm
- for bore-hole Pg 36, Ø 47.5 mm
- wall thickness of up to 5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



ENYBOARD



AKS 42
for knockouts Pg 42



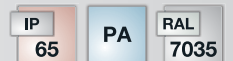
- sealing range: Ø 30-38 mm
- for bore-hole Pg 42, Ø 54,5 mm
- wall thickness of up to 5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



ENYSTAR



AKS 48
for knockouts Pg 48



- sealing range: Ø 34-44 mm
- bore-hole Pg 48, Ø 60 mm
- wall thickness of up to 6 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C



ENYMOD

ENYFIT

ENYCASE®

ENYBOARD

ENYSTAR®

ENYMOD

ENYFIT



Outside diameter of conventinal cable cross sections	390
Assignment of cable outside diameters to cable entries	390
Dimensions	391
Operating and ambient conditions	392

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

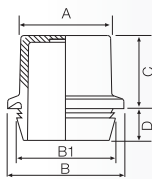
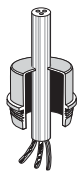
Cable cross section	NYM	NYY	NYCY NYCWY
1x4 mm ²	Ø 8 mm	Ø 9 mm	—
1x6 mm ²	Ø 8,5 mm	Ø 10 mm	—
1x10 mm ²	Ø 9,5 mm	Ø 10,5 mm	—
1x16 mm ²	Ø 11 mm	Ø 12 mm	—
1x25 mm ²	—	Ø 14 mm	—
1x35 mm ²	—	Ø 15 mm	—
1x50 mm ²	—	Ø 16,5 mm	—
1x70 mm ²	—	Ø 18 mm	—
1x95 mm ²	—	Ø 20 mm	—
1x120 mm ²	—	Ø 21 mm	—
1x150 mm ²	—	Ø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

Cable cross section	NYM	NYY	NYCY NYCWY
4x1,5 mm ²	Ø 11 mm	Ø 13,5 mm	Ø 14 mm
4x2,5 mm ²	Ø 12,5 mm	Ø 14,5 mm	Ø 15 mm
4x4 mm ²	Ø 14,5 mm	Ø 17,5 mm	Ø 17 mm
4x6 mm ²	Ø 16,5 mm	Ø 18 mm	Ø 18 mm
4x10 mm ²	Ø 18,5 mm	Ø 20 mm	Ø 20 mm
4x16 mm ²	Ø 23,5 mm	Ø 23 mm	Ø 23 mm
4x25 mm ²	Ø 28,5 mm	Ø 28 mm	Ø 28 mm
4x35 mm ²	Ø 32 mm	Ø 26-30 mm	Ø 29 mm
4x50 mm ²	—	Ø 30-35 mm	Ø 34 mm
4x70 mm ²	—	Ø 34-40 mm	Ø 37 mm
4x95 mm ²	—	Ø 38-45 mm	Ø 42 mm
4x120 mm ²	—	Ø 42-50 mm	Ø 47 mm
4x150 mm ²	—	Ø 46-53 mm	Ø 52 mm
4x185 mm ²	—	Ø 53-60 mm	Ø 60 mm
4x240 mm ²	—	Ø 59-71 mm	Ø 70 mm
4x25/16 mm ²	—	—	Ø 30 mm
4x35/16 mm ²	—	—	Ø 30 mm
4x50/25 mm ²	—	—	Ø 36,5 mm
4x70/35 mm ²	—	—	Ø 40 mm
4x95/50 mm ²	—	—	Ø 44,5 mm
4x120/70 mm ²	—	—	Ø 48,5 mm
4x150/70 mm ²	—	—	Ø 53 mm
4x185/95 mm ²	—	—	—
4x240/120 mm ²	—	—	—
5x1,5 mm ²	Ø 12 mm	Ø 15 mm	Ø 15 mm
5x2,5 mm ²	Ø 13,5 mm	Ø 16 mm	Ø 17 mm
5x4 mm ²	Ø 15,5 mm	Ø 16,5 mm	Ø 18 mm
5x6 mm ²	Ø 18 mm	Ø 19 mm	Ø 20 mm
5x10 mm ²	Ø 20 mm	Ø 21 mm	—
5x16 mm ²	Ø 26 mm	Ø 24 mm	—
5x25 mm ²	Ø 31,5 mm	—	—
7x1,5 mm ²	Ø 13 mm	Ø 16 mm	—
7x2,5 mm ²	Ø 14,5 mm	Ø 16,5 mm	—
19x1,5 mm ²	—	Ø 22 mm	—
24x1,5 mm ²	—	Ø 25 mm	—

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

Outside diameters of cables		Cable entry metric
Ø min.	Ø max.	
3 mm	6 mm	ASM/AKM/ASS 12
5 mm	10 mm	ASM/AKM/ASS 16
6.5 mm	13.5 mm	ASM/AKM/ASS 20
11 mm	17 mm	ASM/AKM/ASS 25
15 mm	21 mm	ASM/AKM/ASS 32
19 mm	28 mm	ASM/AKM/ASS 40
27 mm	35 mm	ASM/AKM/ASS 50
35 mm	48 mm	ASM/AKM/ASS 63
4.8 mm	11 mm	ESM 16
6 mm	13 mm	ESM 20
9 mm	17 mm	ESM 25
9 mm	23 mm	ESM 32
17 mm	30 mm	ESM 40
3.5 mm	12 mm	STM 16
5 mm	16 mm	STM 20
5 mm	21 mm	STM 25
13 mm	26.5 mm	STM 32
13 mm	34 mm	STM 40

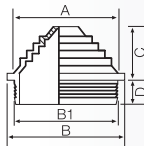
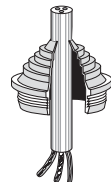
Outside diameters of cables		Cable entry metric
Ø min.	Ø max.	
5 mm	10 mm	EDK 16
6 mm	13 mm	EDK 20
9 mm	17 mm	EDK 25
8 mm	23 mm	EDK 32
11 mm	30 mm	EDK 40
Rohranschluss		
M 16		EDR 16
M 20		EDR 20
M 25		EDR 25
M 32		EDR 32
M 40		EDR 40



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

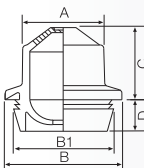
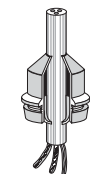
Degree of protection IP 55
Grommets ESM are inserted into knockouts. There is no counter nut required!



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

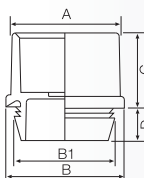
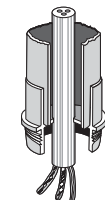
Degree of protection IP 55
Stepped glands STM are inserted into knockouts. There is no counter nut required!



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

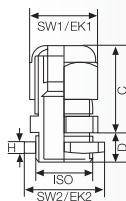
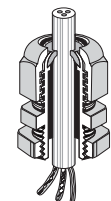
Degree of protection IP 65
Grommets EDK are inserted into knockouts. There is no counter nut required!



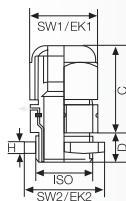
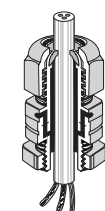
Grommets for conduits in mm	A	B	B1	C	D
EDR 16	20	22	18,5	14,5	8,5
EDR 20	24	26	22,5	14,5	8,5
EDR 25	29	31	27,5	14,5	8,5
EDR 32	36	38	34,5	17,5	8,5
EDR 40	44	46	42,5	17,5	8,5

Grommets for conduits EDR

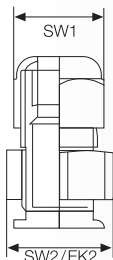
Degree of protection IP 65
Grommets for conduits EDR are inserted into knockouts. There is no counter nut required!



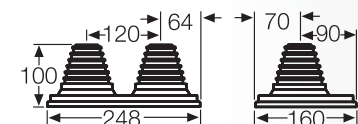
Cable glands ASM/AKM/ASS with strain relief counter nut, degree of protection IP 65 in mm	ISO	SW1 across flats	EK1 across corners Ø	C max.	D	SW2 across flats	EKS across corners Ø	H
ASM/AKM/ASS 12	M 12	15	16,4	22	8	17	19,0	5
ASM/AKM/ASS 16	M 16	20	22,0	26	8	22	24,7	5
ASM/AKM/ASS 20	M 20	24	26,5	29	8	27	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



Combi climate glands KBM / KBS with strain relief counter nut, degree of protection IP 66 / IP 67 in mm	ISO	SW1 across flats	EK1 across corners Ø	C max.	D	SW2 across flats	EK2 across corners Ø	H
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
KBM/KBS 40	M 40	46	50,5	59	10	50	54,1	7

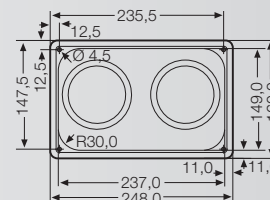


Cable glands AFM with strain relief in mm	SW1 across flats	SW2 across flats	EK2 across corners Ø
AFM 16	20	24	26,5
AFM 20	24	26	29,0
AFM 25	29	32	36,0
AFM 32	36	42	46,0



Flange MV FP 66

Degree of protection IP 55
for retrofitting onto boxes made of sheet steel material thickness $\geq 1,5$ mm



Technical Details
Operating and Ambient Conditions

	ESM ... STM ... EDK ... EDR ... KST... MV FP 66	Ste ...	ASM ...	ASS ...	AFM ... AKM ... AKS ...	KBM ... KBS ...
Application area	suitable for indoor installation (normal environment and/or protected outdoor)		Suitable for outdoor installation - harsh environment and / or outdoor			
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 - 25° C
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					
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	960° C V-2 flame-retardant self-extinguishing
Toxic behaviour	halogen-free silicone-free	silicone-free	halogen-free silicone-free	halogen-free silicone-free	halogen-free silicone-free	halogen-free silicone-free

“Halogen-free” in accordance with IEC 754-2

“Common test methods for cables - Determination of the amount of halogen acid gas”.

For material properties see technical data.