



Cable Glands in Metal Series EMSKE

- Explosion protection to
 - CENELEC
 - IEC
- For use in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Explosion protection type "Increased safety"
- Degree of protection IP68
- As single or multi-cable entry
- Integrated plug (accessory) for closing unused cable entries
- Cable diameter ranges from 4 mm up to 48 mm
- EMC with earthing cones
- Short connecting thread
- Long connecting thread

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The cable glands series EMSKE are certified for use in "Increased Safety" type enclosures. An advantage is the same construction to 8161. This means, that only one assembly tool is needed whether using a brass or plastic gland. Furthermore there is no difference or reduction in the clamping range between brass and plastic version. For application in areas in which the EMC is important the brass cable gland is available with an earthing cone.

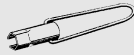
Zones 1 & 2, 21 & 22

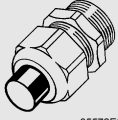



| Selection Table | | | | | | | | |
|---|-------------|--------------------|-------------------|-----------------------|-------------------------|--------------|---------------|--------|
| Version | Thread size | Thread length [mm] | Number of entries | Cable dia. range [mm] | Width across flats [mm] | Packing unit | Order number | Weight |
| | | | | | | pieces | | kg |
| Standard version with short connecting thread | M 12 x 1.5 | 5 | 1 | 4 ... 7 | SW 16 | 50 | 109580 | 0.022 |
| | M 16 x 1.5 | 5 | 1 | 5 ... 10 | SW 20 | 50 | 109581 | 0.032 |
| | M 20 x 1.5 | 6 | 1 | 6 ... 13 | SW 24 | 50 | 109582 | 0.040 |
| | M 25 x 1.5 | 7 | 1 | 10 ... 17 | SW 29 | 50 | 109583 | 0.066 |
| | M 32 x 1.5 | 8 | 1 | 13 ... 21 | SW 36 | 25 | 109584 | 0.108 |
| | M 40 x 1.5 | 8 | 1 | 16 ... 28 | SW 46 | 10 | 109585 | 0.203 |
| | M 50 x 1.5 | 9 | 1 | 21 ... 35 | SW 55 | 10 | 109586 | 0.312 |
| | M 63 x 1.5 | 10 | 1 | 32 ... 48 | SW 68 | 10 | 109587 | 0.500 |
| Standard version with long connecting thread | M 12 x 1.5 | 12 | 1 | 4 ... 7 | SW 16 | 50 | 165632 | 0.020 |
| | M 16 x 1.5 | 12 | 1 | 5 ... 10 | SW 20 | 50 | 165633 | 0.040 |
| | M 20 x 1.5 | 12 | 1 | 6 ... 13 | SW 24 | 50 | 165634 | 0.060 |
| | M 25 x 1.5 | 12 | 1 | 10 ... 17 | SW 29 | 50 | 165635 | 0.080 |
| | M 32 x 1.5 | 15 | 1 | 13 ... 21 | SW 36 | 25 | 165636 | 0.120 |
| | M 40 x 1.5 | 15 | 1 | 16 ... 28 | SW 46 | 10 | 165637 | 0.220 |
| | M 50 x 1.5 | 15 | 1 | 21 ... 35 | SW 55 | 10 | 165638 | 0.330 |
| | M 63 x 1.5 | 15 | 1 | 32 ... 48 | SW 68 | 10 | 165639 | 0.500 |
| EMC insert with earthing cones | M 12 x 1.5 | 5 | 1 | 4 ... 7 | SW 16 | 1 | 109588 | 0.024 |
| | M 16 x 1.5 | 5 | 1 | 5 ... 10 | SW 20 | 1 | 109589 | 0.038 |
| | M 20 x 1.5 | 6 | 1 | 6 ... 13 | SW 24 | 1 | 109590 | 0.055 |
| | M 25 x 1.5 | 7 | 1 | 10 ... 17 | SW 29 | 1 | 109591 | 0.078 |
| | M 32 x 1.5 | 8 | 1 | 13 ... 21 | SW 36 | 1 | 109592 | 0.123 |
| | M 40 x 1.5 | 8 | 1 | 16 ... 28 | SW 46 | 1 | 109593 | 0.223 |
| | M 50 x 1.5 | 9 | 1 | 21 ... 35 | SW 55 | 1 | 109594 | 0.330 |
| | M 63 x 1.5 | 10 | 1 | 32 ... 48 | SW 68 | 1 | 109595 | 0.496 |
| Standard version with plugs | M 12 x 1.5 | 5 | 1 | 4 ... 7 | SW 16 | 1 | 109604 | 0.001 |
| | M 16 x 1.5 | 5 | 1 | 5 ... 10 | SW 20 | 1 | 109605 | 0.023 |
| | M 20 x 1.5 | 6 | 1 | 6 ... 13 | SW 24 | 1 | 109606 | 0.033 |
| | M 25 x 1.5 | 7 | 1 | 10 ... 17 | SW 29 | 1 | 109607 | 0.050 |
| | M 32 x 1.5 | 8 | 1 | 13 ... 21 | SW 36 | 1 | 109608 | 0.069 |
| Multiple sealing insert | M 20 x 1.5 | 6 | 3 | 2,5 ... 4 | SW 24 | 1 | 109596 | 0.048 |
| | M 25 x 1.5 | 7 | 3 | 5 ... 7 | SW 29 | 1 | 109597 | 0.209 |
| | M 25 x 1.5 | 7 | 4 | 4 ... 6 | SW 29 | 1 | 109598 | 0.066 |
| | M 32 x 1.5 | 8 | 4 | 5 ... 7 | SW 36 | 1 | 109599 | 0.111 |
| | M 32 x 1.5 | 8 | 6 | 5 ... 6 | SW 36 | 1 | 109600 | 0.111 |
| | M 40 x 1.5 | 8 | 7 | 5 ... 7 | SW 46 | 1 | 109601 | 0.210 |
| | M 40 x 1.5 | 8 | 8 | 5 ... 6 | SW 46 | 1 | 109602 | 0.210 |
| Special sealing insert | M 20 x 1.5 | 6 | 1 | ASI-Bus | SW 24 | 1 | 109603 | 0.048 |

| Technical Data | | | | | | | | |
|---------------------------|---|------------------------------|---------|---|----------|---------|----------|----------------|
| Explosion protection | | | | | | | | |
| Gas explosion protection | ⊕ II 2 G Ex e II | | | | | | | |
| Dust explosion protection | ⊕ II 2 D Ex tD A21 IP68 (5 bar; 30 min) | | | | | | | |
| Certificates | PTB 04 ATEX 1112 X | | | | | | | |
| Material | | | | | | | | |
| Cable gland | Brass, nickel-plated | | | | | | | |
| Seal | EPDM | | | | | | | |
| Clamping cage | Polyamide | | | | | | | |
| Ambient temperature | - 40 °C ... + 75 °C | | | | | | | |
| Type of Protection | max. IP68 (5 bar; 30 min) | | | | | | | |
| Assembly | Thread Size | For mounting in thread holes | | For mounting with locknuts in through holes | | | | min. nut metal |
| | | metal | plastic | Wall resp. flange thickness | | plastic | | |
| | | | | EMSKE | EMSKE-L | EMSKE | EMSKE-L | |
| | | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] |
| | M 12 x 1.5 | ≥ 3 | ≥ 5 | 1 ... 2 | 1 ... 9 | 2 | 2 ... 9 | 2.8 |
| | M 16 x 1.5 | ≥ 3 | ≥ 5 | 1 ... 2 | 1 ... 9 | 2 | 2 ... 9 | 2.8 |
| | M 20 x 1.5 | ≥ 3 | ≥ 5 | 1 ... 3 | 1 ... 9 | 2 ... 3 | 2 ... 9 | 3 |
| | M 25 x 1.5 | ≥ 3 | ≥ 5 | 1 ... 3 | 1 ... 8 | 2 ... 3 | 2 ... 8 | 3.5 |
| | M 32 x 1.5 | ≥ 3 | ≥ 5 | 1 ... 4 | 1 ... 11 | 2 ... 4 | 2 ... 11 | 4 |
| | M 40 x 1.5 | ≥ 3 | ≥ 5 | 1 ... 3 | 1 ... 10 | 2 ... 3 | 2 ... 10 | 5 |
| | M 50 x 1.5 | ≥ 3 | ≥ 5 | 1 ... 4 | 1 ... 10 | 2 ... 4 | 2 ... 10 | 5 |
| | M 63 x 1.5 | ≥ 3 | ≥ 5 | 1 ... 4 | 1 ... 9 | 2 ... 4 | 2 ... 9 | 6 |


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| Accessories and Spare Parts | | | | | |
|-----------------------------|---|--|--------------|--------------|--------------|
| Designation | Diagram | Description | Order number | Weight kg | |
| Special key |  05263E00 | For tightening cable glands and cap nuts | | | |
| | | For cable glands | | | |
| | | Thread size | | | Packing unit |
| | | M 16 x 1.5 | | | 1 |
| | | M 20 x 1.5 | | | 1 |
| | | M 25 x 1.5 | | | 1 |
| | | M 32 x 1.5 | | | 1 |
| M 40 x 1.5 | 1 | | | | |
| | | | 114207 | 0.120 | |
| | | | 114208 | 0.132 | |
| | | | 114205 | 0.163 | |
| | | | 114209 | 0.237 | |
| | | | 114210 | 0.274 | |



| Accessories and Spare Parts | | | | |
|-----------------------------|--|--|---------------|--------------|
| Designation | Diagram | Description | Order number | Weight kg |
| Plug |  05572E00 | in polyamide, red For closing unused cable entries for cable entries | | |
| | | Thread size kind of entry Packing unit | | |
| | | M 16 x 1.5 single 50 | 138406 | 0.061 |
| | | M 20 x 1.5 single 50 | 138394 | 0.140 |
| | | M 25 x 1.5 single 25 | 138382 | 0.130 |
| | | M 25 x 1.5 multi 50 | 138417 | 0.031 |
| | | M 32 x 1.5 single 25 | 138422 | 0.206 |
| | | M 32 x 1.5 multi 50 | 138412 | 0.044 |
| O-Ring seal |  10733E00 | As additional gasket for onerous mounting conditions for cable entries | | |
| | | Thread size Packing unit | | |
| | | M 12 x 1.5 1 | 111850 | 0.001 |
| | | M 16 x 1.5 1 | 111851 | 0.001 |
| | | M 20 x 1.5 1 | 111852 | 0.001 |
| | | M 25 x 1.5 1 | 111853 | 0.001 |
| | | M 32 x 1.5 1 | 111854 | 0.001 |
| | | M 40 x 1.5 1 | 111855 | 0.001 |
| | | M 50 x 1.5 1 | 111856 | 0.001 |
| | | M 63 x 1.5 1 | 111857 | 0.001 |




Accessories and Spare Parts

| Designation | Diagram | Description | Order number | Weight kg |
|-------------|---|--|---------------|--------------|
| Locknut |  | Fox fixing the cable entries in through holes for cable entries | | |
| | | Version Thread size Packing unit | | |
| | | Brass nickel-plated M 12 x 1.5 1 | 110620 | 0.005 |
| | | Brass, nickel-plated M16 x 1.5 50 | 138383 | 0.135 |
| | | Brass, nickel-plated M20 x 1.5 50 | 138389 | 0.241 |
| | | Brass, nickel-plated M25 x 1.5 50 | 138395 | 0.348 |
| | | Brass, nickel-plated M32 x 1.5 25 | 138401 | 0.267 |
| | | Brass, nickel-plated M40 x 1.5 10 | 138407 | 0.218 |
| | | Brass, nickel-plated M50 x 1.5 4 | 138413 | 0.109 |
| | | Brass, nickel-plated M63 x 1.5 1 | 138418 | 0.054 |
| | | EMC locknut with earthing claws M 12 x 1.5 -- | 110650 | 0.003 |
| | | EMC locknut with earthing claws M 16 x 1.5 -- | 110651 | 0.004 |
| | | EMC locknut with earthing claws M 20 x 1.5 -- | 110652 | 0.006 |
| | | EMC locknut with earthing claws M 25 x 1.5 -- | 110653 | 0.011 |
| | | EMC locknut with earthing claws M 32 x 1.5 -- | 110654 | 0.014 |
| | | EMC locknut with earthing claws M 40 x 1.5 -- | 110656 | 0.028 |
| | | EMC locknut with earthing claws M 50 x 1.5 -- | 110728 | 0.054 |
| | | EMC locknut with earthing claws M 63 x 1.5 -- | 110731 | 0.058 |



| Accessories and Spare Parts | | | | | | | |
|-------------------------------|---|---|-------------------|------------------|---------------|---------------|-------|
| Designation | Diagram | Description | Order number | Weight kg | | | |
| EMC insert with earthing cone |  08761E00 | For connecting and clamping the shield from shielded cables for cable entries | | | | | |
| | | | for cable gland | Packing unit | | | |
| | | EE 12-05 | EMSKE 12 | 1 | 109617 | 0.113 | |
| | | EE 16-06 | EMSKE 16 | 1 | 109618 | 0.216 | |
| | | EE 18-06 | EMSKE 20 | 1 | 109619 | 0.341 | |
| | | EE 18-07 | EMSKE 20 | 1 | 109620 | 0.008 | |
| | | EE 24-06 | EMSKE 25 | 1 | 109621 | 0.012 | |
| | | EE 24-07 | EMSKE 25 | 1 | 109622 | 0.012 | |
| | | EE 24-08 | EMSKE 25 | 1 | 109623 | 0.013 | |
| | | EE 24-10 | EMSKE 25 | 1 | 109624 | 0.013 | |
| | | EE 24-13 | EMSKE 25 | 1 | 109625 | 0.013 | |
| | | EE 24-14 | EMSKE 25 | 1 | 109626 | 0.013 | |
| | | EE 30-16 | EMSKE 32 | 1 | 109627 | 0.013 | |
| | | EE 30-18 | EMSKE 32 | 1 | 109628 | 0.015 | |
| | | EE 36-20 | EMSKE 40 | 1 | 109629 | 0.022 | |
| | | EE 36-22 | EMSKE 40 | 1 | 109630 | 0.022 | |
| | | EE 36-24 | EMSKE 40 | 1 | 109631 | 0.020 | |
| | | EE 45-27 | EMSKE 50 | 1 | 109632 | 0.031 | |
| | | EE 45-30 | EMSKE 50 | 1 | 109633 | 0.029 | |
| | | EE 56-35 | EMSKE 63 | 1 | 109634 | 0.042 | |
| EE 56-39 | EMSKE 63 | 1 | 109635 | 0.038 | | | |
| Multiple sealing insert |  08762E00 | for cable entries | | | | | |
| | | Size | Number of entries | Cable dia. range | Packing unit | | |
| | | M 20 | 3 | 2,5 - 4 | 1 | 109609 | 0.002 |
| | | M 25 | 3 | 5 - 7 | 1 | 109610 | 0.002 |
| | | M 25 | 4 | 4 - 6 | 1 | 109611 | 0.003 |
| | | M 32 | 4 | 5 - 7 | 1 | 109612 | 0.004 |
| | | M 32 | 4 | 5 - 7 | 1 | 109613 | 0.004 |
| | | M 40 | 7 | 5 - 7 | 1 | 109614 | 0.012 |
| | | M 40 | 8 | 5 - 8 | 1 | 109615 | 0.013 |

Accessories and Spare Parts

| Designation | Diagram | Description | Order number | Weight kg |
|------------------------|---|---|---------------|--------------|
| Special sealing insert |  | for cable entries | | |
| | | Size Number of entries Cable dia. range Packing unit | | |
| | | M 20 1 ASI-BUS 1 | 109616 | 0.002 |

Dimensional Drawings (All Dimensions in mm) - Subject to Alterations

| Thread-size M | Dimensions [mm] | | | | | | | |
|---------------|-----------------|---------------------|---------------------|---------------------|---------------------|----------------|------------------|-----------|
| | SW | EMSKE | | EMSKE-L | | L ₂ | Cable dia. range | |
| | | L ₁ min. | L ₁ max. | L ₁ min. | L ₁ max. | | | |
| M 12 x 1.5 | 16 | 23 | 30 | 5 | 30 | 37 | 12 | 4 ... 7 |
| M 16 x 1.5 | 20 | 26 | 34 | 5 | 33 | 41 | 12 | 5 ... 10 |
| M 20 x 1.5 | 24 | 29 | 37 | 6 | 35 | 43 | 12 | 6 ... 13 |
| M 25 x 1.5 | 29 | 33 | 42 | 7 | 38 | 47 | 12 | 10 ... 17 |
| M 32 x 1.5 | 36 | 36 | 44 | 8 | 43 | 51 | 15 | 13 ... 21 |
| M 40 x 1.5 | 46 | 44 | 55 | 8 | 51 | 62 | 15 | 16 ... 28 |
| M 50 x 1.5 | 55 | 51 | 62 | 9 | 57 | 68 | 15 | 21 ... 35 |
| M 63 x 1.5 | 68 | 56 | 67 | 10 | 61 | 72 | 15 | 34 ... 48 |

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.