

Cable glands Ex e & Ex d & Ex nR & Ex ta

Series TE1FU for all types of armouring without lead sheath, stainless steel



- Ex d and Ex e cable gland for armoured cables with SWA, wire-braid and tape armouring made of steel and aluminium
- Prevention of cold flow
- Compensating displacement seal (CDS), flood seal with integral protection, controlled outer load retention seal
- Internationally certified in accordance with IECEx, ATEX and cCSAus, EMC-tested

MY R. STAHL TE1FUA



The Series TE1FU metal Ex d and Ex e cable glands are suitable for all types of armoured cables, i.e. for SWA, wire-braid and tape armouring made of steel and aluminium. They have a multifunctional holder for the armouring and various seals. They are also designed to prevent cold flow and are EMC-tested. Their auxiliary functions and the sequential, three-stage installation offer increased safety and reduce the amount of time, costs and risks involved in installation.

| | IECEx / ATEX | | | | | |
|-----------------|--------------|---|---|----|----|----|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Installation in | | • | • | • | • | • |

| Selection Table | | | | | | | | | | |
|-----------------|-------------|------------------|------------------|--------------------|-------------------|----------------|-----------------|----------|----------|---------|
| Thread standard | | metric | | | | | | | | |
| Gland size | Thread size | Inner sheath | Outer sheath | Width across flats | Protrusion length | Grooved cone | Stepped cone | PVC boot | Art. No. | Weight |
| 20 | M20 | 6.5 ... 13.9 mm | 12.5 ... 20.9 mm | 30.5 mm | 61.5 mm | 0.4 ... 1 mm | 0.8 ... 1.25 mm | PVC06 | 243495 | 230 g |
| 20s | M20 | 6.1 ... 11.6 mm | 9.5 ... 15.9 mm | 24 mm | 57.3 mm | 0.3 ... 1 mm | 0.8 ... 1.25 mm | PVC04 | 243494 | 150 g |
| 20s/16 | M20 | 3.1 ... 8.6 mm | 6.1 ... 13.1 mm | 24 mm | 57.3 mm | 0.3 ... 1 mm | 0.8 ... 1.25 mm | PVC04 | 243493 | 150 g |
| 25 | M25 | 11.1 ... 19.9 mm | 18.2 ... 26.2 mm | 37.5 mm | 74 mm | 0.4 ... 1.2 mm | 1.25 ... 1.6 mm | PVC09 | 243497 | 340 g |
| 25s | M25 | 11.1 ... 19.9 mm | 14 ... 22 mm | 37.5 mm | 74 mm | 0.4 ... 1.2 mm | 1.25 ... 1.6 mm | PVC09 | 243496 | 340 g |
| 32 | M32 | 17 ... 26.2 mm | 23.7 ... 33.9 mm | 46 mm | 78.2 mm | 0.4 ... 1.2 mm | 1.6 ... 2 mm | PVC11 | 243498 | 550 g |
| 40 | M40 | 22 ... 32.1 mm | 27.9 ... 40.4 mm | 55 mm | 81.6 mm | 0.4 ... 1.6 mm | 1.6 ... 2 mm | PVC15 | 243499 | 790 g |
| 50 | M50 | 35.6 ... 44 mm | 40.4 ... 53 mm | 70.1 mm | 91.2 mm | 0.6 ... 1.6 mm | 2 ... 2.5 mm | PVC21 | 243501 | 1.37 kg |
| 50s | M50 | 29.5 ... 38.1 mm | 35.2 ... 46.7 mm | 60 mm | 88.1 mm | 0.4 ... 1.6 mm | 2 ... 2.5 mm | PVC18 | 243500 | 1 kg |
| 63 | M63 | 47.2 ... 55.9 mm | 54.6 ... 65.8 mm | 80 mm | 90.3 mm | 0.6 ... 1.6 mm | 2 ... 2.5 mm | PVC25 | 243503 | 1.56 kg |
| 63s | M63 | 40.1 ... 49.9 mm | 45.6 ... 59.4 mm | 75 mm | 90.5 mm | 0.6 ... 1.6 mm | 2 ... 2.5 mm | PVC23 | 243502 | 1.5 kg |
| 75 | M75 | 59.1 ... 67.9 mm | 66.7 ... 78.4 mm | 100 mm | 110.8 mm | 0.6 ... 1.6 mm | 2.5 ... 3 mm | PVC30 | 246298 | 3.15 kg |
| 75s | M75 | 52.8 ... 61.9 mm | 59 ... 72 mm | 90 mm | 104.7 mm | 0.6 ... 1.6 mm | 2 ... 2.5 mm | PVC28 | 246297 | 2.45 kg |
| Thread standard | | NPT | | | | | | | | |
| Gland size | Thread size | Inner sheath | Outer sheath | Width across flats | Protrusion length | Grooved cone | Stepped cone | PVC boot | Art. No. | Weight |
| 20 | NPT1/2 | 6.5 ... 13.9 mm | 12.5 ... 20.9 mm | 24 mm | 61.2 mm | 0.4 ... 1 mm | 0.8 ... 1.25 mm | PVC06 | 246300 | 230 g |
| 20s | NPT1/2 | 6.1 ... 11.6 mm | 9.5 ... 15.9 mm | 24 mm | 57.3 mm | 0.3 ... 1 mm | 0.8 ... 1.25 mm | PVC04 | 251724 | 150 g |
| 20s/16 | NPT1/2 | 3.1 ... 8.6 mm | 6.1 ... 13.1 mm | 24 mm | 57.3 mm | 0.3 ... 1 mm | 0.8 ... 1.25 mm | PVC04 | 246299 | 150 g |

Selection Table

| Thread standard | | NPT | | | | | | | | |
|-----------------|-------------|------------------|------------------|--------------------|-------------------|----------------|-----------------|----------|----------|---------|
| Gland size | Thread size | Inner sheath | Outer sheath | Width across flats | Protrusion length | Grooved cone | Stepped cone | PVC boot | Art. No. | Weight |
| 25 | NPT3/4 | 11.1 ... 19.9 mm | 18.2 ... 26.2 mm | 37.5 mm | 74 mm | 0.4 ... 1.2 mm | 1.25 ... 1.6 mm | PVC09 | 246301 | 340 g |
| 25s | NPT3/4 | 11.1 ... 19.9 mm | 14 ... 22 mm | 37.5 mm | 74 mm | 0.4 ... 1.2 mm | 1.25 ... 1.6 mm | PVC09 | 251725 | 340 g |
| 32 | NPT1 | 17 ... 26.2 mm | 23.7 ... 33.9 mm | 46 mm | 78.2 mm | 0.4 ... 1.2 mm | 1.6 ... 2 mm | PVC11 | 246302 | 550 g |
| 40 | NPT1-1/4 | 22 ... 32.1 mm | 27.9 ... 40.4 mm | 55 mm | 81.6 mm | 0.4 ... 1.6 mm | 1.6 ... 2 mm | PVC15 | 246303 | 790 g |
| 50 | NPT2 | 35.6 ... 44 mm | 40.4 ... 53 mm | 70.1 mm | 91.2 mm | 0.6 ... 1.6 mm | 2 ... 2.5 mm | PVC21 | 246305 | 1.37 kg |
| 50s | NPT1-1/2 | 29.5 ... 38.1 mm | 35.2 ... 46.7 mm | 60 mm | 88.1 mm | 0.4 ... 1.6 mm | 2 ... 2.5 mm | PVC18 | 246304 | 1 kg |
| 63 | NPT2-1/2 | 47.2 ... 55.9 mm | 54.6 ... 65.8 mm | 80 mm | 90.3 mm | 0.6 ... 1.6 mm | 2 ... 2.5 mm | PVC25 | 246307 | 1.56 kg |
| 63s | NPT2 | 40.1 ... 49.9 mm | 45.6 ... 59.4 mm | 75 mm | 90.5 mm | 0.6 ... 1.6 mm | 2 ... 2.5 mm | PVC23 | 246306 | 1.5 kg |
| 75 | NPT3 | 59.1 ... 67.9 mm | 66.7 ... 78.4 mm | 100 mm | 110.8 mm | 0.6 ... 1.6 mm | 2.5 ... 3 mm | PVC30 | 246309 | 3.15 kg |
| 75s | NPT2-1/2 | 52.8 ... 61.9 mm | 59 ... 72 mm | 90 mm | 104.7 mm | 0.6 ... 1.6 mm | 2 ... 2.5 mm | PVC28 | 246308 | 2.45 kg |

Additional variants available with NPT thread type.
Versions with country codes BRA, CHN and others available on request.

Grooved cone: For cables with wire-braid or tape armouring
Smooth cone: For cables with wire armouring (SWA)

Technical Data

Explosion Protection

| | |
|----------------------------------|------------------------|
| IECEX gas explosion protection | Ex db IIC Gb |
| IECEX gas explosion protection 2 | Ex eb IIC Gb |
| IECEX dust explosion protection | Ex ta IIIC Da |
| IECEX firedamp protection | Ex db I Mb |
| IECEX firedamp protection 2 | Ex eb I Mb |
| IECEX restricted breathing | Ex nR IIC Gc |
| ATEX gas explosion protection | ⊕ II 2 G Ex db IIC Gb |
| ATEX gas explosion protection 2 | ⊕ II 2 G Ex eb IIC Gb |
| ATEX dust explosion protection | ⊕ II 1 D Ex ta IIIC Da |
| ATEX firedamp protection | ⊕ I M2 Ex db I Mb |
| ATEX firedamp protection 2 | ⊕ I M2 Ex eb I Mb |
| ATEX restricted breathing | ⊕ II 3 G Ex nR IIC Gc |

Notes
The product certificates can be downloaded from the manufacturer's homepage (www.cmp-products.com)

Ex version Ex e & Ex d & Ex nR & Ex ta

Ambient Conditions

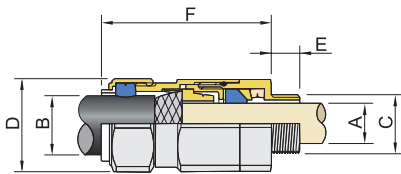
Ambient temperature -60 °C ... +130 °C

Mechanical Data

| | |
|---------------------------|---|
| Degree of protection (IP) | IP66 |
| Degree of protection note | IP67 and IP68 mounting according to the specifications of the manufacturer, CMP. The specified degrees of protection are only fulfilled if CMP installation accessories are used. |
| Material | Stainless steel |
| Sealing material | SOLO LSF |
| Armouring type | All armouring |
| Construction type | BS 6121, IEC/EN 62444 |
| Silicone-free | Yes |
| Impact strength | 20 J |

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

E10



A = Inner sheath B = Outer sheath
C = Thread size D = Width across corners
D = Width across flats E = Thread length
F = Protrusion length