

# T3 Series Nickel Plated Brass Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations  
For Armored Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Ex d IIC | Ex e IIC | Ex nR IIC | Enclosure Type 3, 4, 4X  
ATEX/IECEx : Zones 1 and 2 – 20  
Notable: UKEX, INMETRO, EAC Certified

## Applications

- Cable gland for all types of armored cable certified for enclosures with the following protection modes:
  - Ex d: flameproof IIB or IIC
  - Ex e: increased safety.
  - Ex nR: restricted breathing.
  - Ex d: flameproof.
- Hazardous areas (gas and dust).
- Onshore and offshore.

## Features

- Cable gland with elastomer seal for use in hazardous areas with all types of armored cable.
- This product utilizes a unique compensating displacement seal (CDS) system which provides full compatibility with restricted breathing equipment.
- The cable gland provides mechanical cable retention and earth continuity via cable armor termination.
- A reversible armor cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from equipment.
- Inspection of the armor can be carried out while still maintaining the protection mode of the enclosure.

## Standard Materials

- Body: nickel plated brass
- Seal: inner CDS (compensating displacement seal) elastomeric compensating displacement seal and exterior LRS (load retention seal) retention seal

## Options

- 316L stainless steel version: replace last digit 5 with 4
- Lead sheath version: replace T3 with T3PB
- Copperfree aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

## NEC/CEC Certifications and Compliances

- UL Standard: UL514B
- CSA Standard: C22.2 No 0, 18, 25, 30, 94, 174
- cCSAus Certified: 1310517

## ATEX/IECEx Certifications and Compliances

- Certification Type: Type T3\*\* and TE\*\*
  - Gas: Zones 1 and 2
    - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc
  - Dust: Zone 20
    - Type of Protection: Ex ta IIIC Da

| Cable Gland Size | Catalog Numbers |                   |                       |                |                       |                       |
|------------------|-----------------|-------------------|-----------------------|----------------|-----------------------|-----------------------|
|                  | Metric Thread C | Standard Metric ① | Standard NPT Thread C | Standard NPT ① | Optional NPT Thread C | Optional NPT Thread ① |
| 20S16            | M20             | 2016T35           | 1/2"                  | 2016T30505     | 3/4"                  | 2016T30755            |
| 20S              | M20             | 20ST35            | 1/2"                  | 20ST30505      | 3/4"                  | 20ST30755             |
| 20               | M20             | 20T35             | 1/2"                  | 20T30505       | 3/4"                  | 20T30755              |
| 25S              | M25             | 25ST35            | 3/4"                  | 25ST30755      | 1"                    | 25ST31005             |
| 25               | M25             | 25T35             | 3/4"                  | 25T30755       | 1"                    | 25T31005              |
| 32               | M32             | 32T35             | 1"                    | 32T31005       | 1-1/4"                | 32T31255              |
| 40               | M40             | 40T35             | 1-1/4"                | 40T31255       | 1-1/2"                | 40T31505              |
| 50S              | M50             | 50ST35            | 1-1/2"                | 50ST31505      | 2"                    | 50ST32005             |
| 50               | M50             | 50T35             | 2"                    | 50T32005       | 2-1/2"                | 50T32505              |
| 63S              | M63             | 63ST35            | 2"                    | 63ST32005      | 2-1/2"                | 63ST32505             |
| 63               | M63             | 63T35             | 2-1/2"                | 63T32505       | 3"                    | 63T33005              |
| 75S              | M75             | 75ST35            | 2-1/2"                | 75ST32505      | 3"                    | 75ST33005             |
| 75               | M75             | 75T35             | 3"                    | 75T33005       | 3-1/2"                | 75T33505              |
| 90               | M90             | 90T35             | 3-1/2"                | 90T33505       | 4"                    | 90T34005              |
| 100              | M100            | 100T35            | 3-1/2"                | 100T33505      | 4"                    | 100T34005             |
| 115              | M115            | 115T35            | 4"                    | 115T34005      | 5"                    | 115T35005             |
| 130              | M130            | 130T35            | 5"                    | 130T35005      | —                     | —                     |

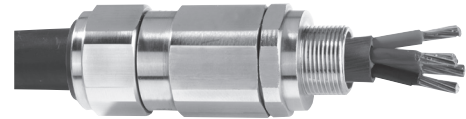
① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

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- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- ATEX Certificate: CML 18ATEX1326X, CML 18ATEX4318X
- IECEx Certificate: IECEx CML 18.0183X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68 ①
- Deluge Protection Compliance: DTS01:91



## UKEX Certifications

- UKEX Certificates: CML 21UKEX1258X, CML 21UKEX4259X

## INMETRO Certifications

- INMETRO Certificate: TÜV 11.0374X, for INMETRO marking, add B after T3. Example: 20T3UB5

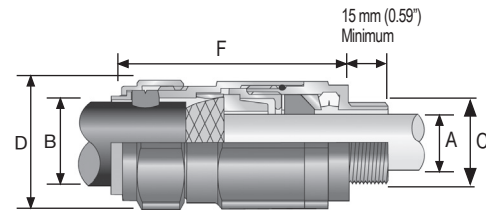
## EAC Certifications

- EAC Certificate: C-GB.AQ07.B.04599/22; for EAC marking, add U after T3. Example: 20T3U5

## Other Certifications

- CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS

## Dimensions in Millimeters (Inches)



| Cable Gland Size | Thread Length mm (in) E |             | Cable Bedding mm (in) A |              | Overall Cable Diameter mm (in) B |              | Across Flats (mm (in) D Max. | Across Corners (mm (in) D Max. | Nominal Protrusion Length (mm (in) F | Optional PVC Shroud | Weight (kg (oz) |
|------------------|-------------------------|-------------|-------------------------|--------------|----------------------------------|--------------|------------------------------|--------------------------------|--------------------------------------|---------------------|-----------------|
|                  | Metric                  | NPT         | Metric                  | NPT          | Min.                             | Max.         |                              |                                |                                      |                     |                 |
| 20S16            | 15 (0.59)               | 19.8 (0.78) | 3.0 (0.12)              | 8.6 (0.34)   | 6.1 (0.24)                       | 13.1 (0.52)  | 24.0 (0.95)                  | 26.4 (1.04)                    | 78.7 (3.10)                          | PVC36               | 0.20 (7.06)     |
| 20S              | 15 (0.59)               | 19.8 (0.78) | 6.1 (0.24)              | 11.7 (0.46)  | 9.5 (0.37)                       | 15.9 (0.63)  | 24.0 (0.95)                  | 26.4 (1.04)                    | 78.7 (3.10)                          | PVC36               | 0.20 (6.91)     |
| 20               | 15 (0.59)               | 19.8 (0.78) | 6.6 (0.26)              | 14.0 (0.55)  | 12.5 (0.49)                      | 20.9 (0.82)  | 30.5 (1.2)                   | 33.6 (1.32)                    | 76.2 (3.00)                          | PVC06               | 0.28 (9.77)     |
| 25S              | 15 (0.59)               | 20.3 (0.8)  | 11.2 (0.44)             | 19.8 (0.78)  | 14.0 (0.55)                      | 22.0 (0.87)  | 37.5 (1.48)                  | 41.3 (1.63)                    | 88.8 (3.50)                          | PVC09               | 0.44 (15.34)    |
| 25               | 15 (0.59)               | 20.3 (0.8)  | 11.2 (0.44)             | 19.8 (0.78)  | 18.2 (0.72)                      | 26.2 (1.03)  | 37.5 (1.48)                  | 41.3 (1.63)                    | 88.7 (3.49)                          | PVC09               | 0.44 (15.34)    |
| 32               | 15 (0.59)               | 24.9 (0.98) | 17.0 (0.67)             | 26.2 (1.03)  | 23.7 (0.93)                      | 33.9 (1.33)  | 46.0 (1.81)                  | 50.6 (1.99)                    | 90.7 (3.57)                          | PVC11               | 0.63 (22.33)    |
| 40               | 15 (0.59)               | 25.7 (1.01) | 22.1 (0.87)             | 32.0 (1.26)  | 27.9 (1.1)                       | 40.4 (1.59)  | 55.0 (2.17)                  | 60.5 (2.38)                    | 93.2 (3.67)                          | PVC15               | 0.91 (31.92)    |
| 50S              | 15 (0.59)               | 26.2 (1.03) | 29.5 (1.16)             | 38.1 (1.50)  | 35.2 (1.39)                      | 46.7 (1.84)  | 60.0 (2.36)                  | 66.0 (2.6)                     | 100.7 (3.96)                         | PVC18               | 1.12 (39.65)    |
| 50               | 15 (0.59)               | 26.9 (1.06) | 35.6 (1.40)             | 43.9 (1.73)  | 40.4 (1.59)                      | 53.0 (2.09)  | 70.1 (2.76)                  | 77.1 (3.04)                    | 105.8 (4.17)                         | PVC21               | 1.60 (56.58)    |
| 63S              | 15 (0.59)               | 26.9 (1.06) | 40.1 (1.58)             | 50.0 (1.97)  | 45.6 (1.8)                       | 59.4 (2.34)  | 75.0 (2.96)                  | 82.5 (3.25)                    | 102.5 (4.04)                         | PVC23               | 1.73 (61.1)     |
| 63               | 15 (0.59)               | 39.9 (1.57) | 47.2 (1.86)             | 55.9 (2.20)  | 54.6 (2.15)                      | 65.8 (2.59)  | 80.0 (3.15)                  | 88.0 (3.47)                    | 105.4 (4.15)                         | PVC25               | 1.78 (62.72)    |
| 75S              | 15 (0.59)               | 39.9 (1.57) | 52.8 (2.08)             | 62.0 (2.44)  | 59.0 (2.32)                      | 72.0 (2.83)  | 90.0 (3.55)                  | 99.0 (3.9)                     | 110.6 (4.35)                         | PVC28               | 2.57 (90.7)     |
| 75               | 15 (0.59)               | 41.4 (1.63) | 59.2 (2.33)             | 67.8 (2.67)  | 66.7 (2.63)                      | 78.4 (3.09)  | 100.0 (3.94)                 | 110.0 (4.33)                   | 120.3 (4.74)                         | PVC30               | 3.33 (117.93)   |
| 90               | 24 (0.94)               | 42.9 (1.69) | 66.5 (2.62)             | 78.5 (3.09)  | 76.2 (3)                         | 90.3 (3.56)  | 115.0 (4.53)                 | 126.5 (4.98)                   | 138.9 (5.47)                         | PVC32               | 4.87 (171.73)   |
| 100              | 24 (0.94)               | 42.9 (1.69) | 75.9 (2.99)             | 90.9 (3.58)  | 86.1 (3.39)                      | 101.4 (3.99) | 127.0 (5)                    | 139.7 (5.5)                    | 128.2 (5.05)                         | LSF33               | 4.97 (175.28)   |
| 115              | 24 (0.94)               | 43.9 (1.73) | 86.1 (3.39)             | 97.8 (3.85)  | 101.5 (4)                        | 110.2 (4.34) | 138.0 (5.44)                 | 151.8 (5.98)                   | 161.3 (6.35)                         | LSF34               | 7.72 (272.35)   |
| 130              | 24 (0.94)               | 46.7 (1.84) | 97.0 (3.82)             | 114.8 (4.52) | 110.2 (4.34)                     | 123.2 (4.85) | 157.0 (6.19)                 | 172.7 (6.8)                    | 173.3 (6.82)                         | LSF35               | 9.78 (344.37)   |

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