

# T3 Series Nickel Plated Brass Cable Glands

## Increased Safety and Flameproof. Ex d ①.

With Elastomer Seal for Armored Cables.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups E, F, G  
Class III  
NEMA 3, 4, 4X

### NEC/CEC:

Class I, Zone I, AEx e II / Ex d IIC  
Class I, Zone 2, AEx e II / Ex e II  
IP66, IP67 ①, IP68 ①

### ATEX/IECEX:

Zone 1 and 2 - 21 and 22  
② II 2 GD  
IP66 / 68 (10 m)

### Applications

- Cable gland for all types of armored cable certified for enclosures with the following protection modes:
  - Ex d flameproof IIB or IIC (as per §10.4.2 of IEC 60079-14) (Refer to ATX Guide for Use of Electrical Products in Hazardous Locations)
  - 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 CDS system is designed to alleviate any pressure on soft bedded cables.
- The cable gland allows mechanical cable retention and earth continuity via armor termination.

- A reversible armor cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from equipment.
- The cable gland is IP66/68 rated with deluge protection to DTS01: 91.
- Inspection of the armor can be carried out while still maintaining the protection mode of the enclosure.

### Standard Materials

- Body: nickel plated brass
- Seal: LSF (Low Smoke Fume) thermoplastic elastomer
  - Inner CDS system and LRS (Load Retention Seal) outer seal

### Options

- 316L stainless steel version: replace last digit 5 with 4
- Lead sheath version: replace T3 with T3PB
- Copper-free 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: 2225
- CSA Standard: C22.2 No. 174
- cCSAus Certified: 101909

Cable Gland Size	Metric Thread C	Standard Metric ②	Standard NPT Thread C	Catalog Numbers			Minimum Thread Length mm (in) E
				Standard NPT ②	Optional NPT Thread C	Optional NPT Thread ②	
20S16	M20	2016T35	1/2	2016T30505	3/4	2016T30755	15.0 (0.59)
20S	M20	20ST35	1/2	20ST30505	3/4	20ST30755	15.0 (0.59)
20	M20	20T35	1/2	20T30505	3/4	20T30755	15.0 (0.59)
25S	M25	25ST35	3/4	25ST30755	1	25ST31005	15.0 (0.59)
25	M25	25T35	3/4	25T30755	1	25T31005	15.0 (0.59)
32	M32	32T35	1	32T31005	1-1/4	32T31255	15.0 (0.59)
40	M40	40T35	1-1/4	40T31255	1-1/2	40T31505	15.0 (0.59)
50S	M50	50ST35	1-1/2	50ST31505	2	50ST32005	15.0 (0.59)
50	M50	50T35	2	50T32005	2-1/2	50T32505	15.0 (0.59)
63S	M63	63ST35	2	63ST32005	2-1/2	63ST32505	15.0 (0.59)
63	M63	63T35	2-1/2	63T32505	3	63T33005	15.0 (0.59)
75S	M75	75ST35	2-1/2	75ST32505	3	75ST33005	15.0 (0.59)
75	M75	75T35	3	75T33005	3-1/2	75T33505	24.0 (0.94)
90	M90	90T35	3	90T33005	3-1/2	90T33505	24.0 (0.94)
100	M100	100T35	4	100T34005	5	100T35005	24.0 (0.94)
115	M115	115T35	4	115T34005	5	115T35005	24.0 (0.94)
130	M130	130T35	5	130T35005	6	130T36005	24.0 (0.94)

① The T3 Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 and Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.  
② Entry thread seal not supplied, see *Cable Gland Accessories and Tools*.

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NEMA 3, 4, 4X

## NEC/CEC:

Class I, Zone 1, AEx e II / Ex d IIC  
Class I, Zone 2, AEx e II / Ex e II  
IP66, IP67 ①, IP68 ①

## ATEX/IECEX:

Zone 1 and 2 – 21 and 22  
② II 2 GD  
IP66 / 68 (10 m)

## ATEX/IECEX Certifications and Compliances

- Certification Type T3CDS
  - Gas: Zones 1 and 2
    - Type of Protection: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc
  - Dust: Zone 20
    - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 94/9/CE: ② II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- CE Declaration of Conformity: DC07001
- ATEX Certificate: Sira 13ATEX1073X, Sira 13ATEX4079X
- IECEX Certificate: IECEX SIR 13.0028X, IECEX SIM 14.0007X
- Other Certifications: cCSAus, UL, CCOE/PESO (India)
- Marine Approval: LLOYDS, DNV, ABS
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68
- Deluge Protection Compliance: DTS01:91

## INMETRO Certification

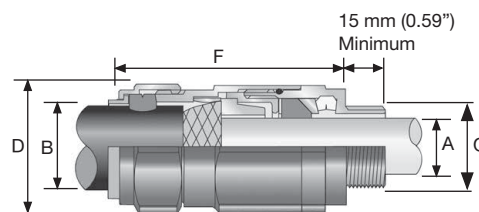
- INMETRO Certificate: TÜV 11.0374X

## EURASEC Certification

- TC RU C-GB. Г505.В.00138



Dimensions in Millimeters (Inches)



Cable Gland Size	Cable Bedding Diameter mm (in) A		Overall Cable Diameter mm (in) B		Across Corners mm (in) D	Across Flats mm (in) D	Nominal Protrusion Length mm (in) F	Optional PVC Shroud	Weight kg (oz)
	Min	Max	Min	Max					
20S16	3.2 (0.13)	8.7 (0.34)	6.1 (0.24)	13.2 (0.52)	26.4 (1.04)	24.0 (0.94)	70.0 (2.76)	PVC36	0.17 (6.00)
20S	6.1 (0.24)	11.7 (0.46)	9.5 (0.37)	15.9 (0.63)	26.4 (1.04)	24.0 (0.94)	70.0 (2.76)	PVC36	0.17 (6.00)
20	6.5 (0.26)	14.0 (0.55)	12.5 (0.49)	20.9 (0.82)	33.6 (1.32)	30.5 (1.20)	72.0 (2.83)	PVC06	0.26 (9.03)
25S	11.0 (0.43)	20.0 (0.79)	14.0 (0.55)	22.0 (0.87)	41.3 (1.63)	37.5 (1.48)	82.0 (3.23)	PVC09	0.38 (13.55)
25	11.0 (0.43)	20.0 (0.79)	18.2 (0.72)	26.2 (1.03)	41.3 (1.63)	37.5 (1.48)	82.0 (3.23)	PVC09	0.38 (13.37)
32	17.0 (0.67)	26.3 (1.04)	23.7 (0.93)	33.9 (1.33)	50.6 (1.99)	46.0 (1.81)	85.0 (3.35)	PVC11	0.56 (19.75)
40	22.0 (0.87)	32.2 (1.27)	27.9 (1.10)	40.4 (1.59)	60.5 (2.38)	55.0 (2.17)	86.0 (3.39)	PVC15	0.85 (29.91)
50S	29.5 (1.16)	38.2 (1.50)	35.2 (1.39)	46.7 (1.84)	66.0 (2.60)	60.0 (2.36)	98.0 (3.86)	PVC18	1.06 (37.21)
50	35.6 (1.40)	44.1 (1.74)	40.4 (1.59)	53.1 (2.09)	77.0 (3.03)	70.0 (2.76)	100.0 (3.94)	PVC21	1.52 (53.65)
63S	40.1 (1.58)	50.0 (1.97)	45.6 (1.80)	59.4 (2.34)	82.5 (3.25)	75.0 (2.95)	108.0 (4.25)	PVC23	1.75 (61.73)
63	47.2 (1.86)	56.0 (2.20)	54.6 (2.15)	65.9 (2.59)	88.0 (3.46)	80.0 (3.15)	103.0 (4.06)	PVC25	1.69 (59.44)
75S	52.8 (2.08)	62.0 (2.44)	59.0 (2.32)	72.1 (2.84)	97.9 (3.85)	89.0 (3.50)	105.0 (4.13)	PVC28	2.35 (82.72)
75	59.1 (2.33)	68.0 (2.68)	66.7 (2.63)	78.5 (3.09)	108.9 (4.29)	99.0 (3.90)	114.0 (4.49)	PVC30	3.2 (112.88)
90	66.6 (2.62)	80.0 (3.15)	76.2 (3.00)	90.4 (3.56)	125.4 (4.94)	114.0 (4.49)	140.0 (5.51)	PVC32	5.1 (179.90)
100	76.6 (3.02)	91.0 (3.58)	86.1 (3.39)	101.5 (4.00)	135.3 (5.33)	123.0 (4.84)	170.0 (6.69)	LSF33	6.5 (229.28)
115	86.0 (3.39)	98.0 (3.86)	101.5 (4.00)	110.3 (4.34)	146.1 (5.75)	133.4 (5.25)	210.0 (8.27)	LSF34	7.0 (246.92)
130	97.0 (3.82)	115.0 (4.53)	114.2 (4.50)	123.3 (4.85)	160.7 (6.33)	146.1 (5.75)	250.0 (9.84)	LSF35	7.8 (275.14)

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