

## 1 SPECIAL CONDITIONS OF USE

- Rated for ambient temperature from -35°C → 120°C
- Installation shall be carried out by suitably trained personnel only.
- Cable gland size must be carefully selected with reference to Bedding diameter (D1) in Table 1. Failure to do so may compromise the Ex safety of the installation. (See also Fig. 4).



## CERTIFICATION

Ex db I Mb  
Ex eb I Mb  
Ex db IIC Gb  
Ex e IIC Gb  
Ex nR IIC Gc  
Ex ta IIC Da  
IP66/68 (350m)



SANS/IEC 60079-0/1  
SANS/IEC 60079-7  
SANS/IEC 60079-15  
SANS/IEC 60079-31  
SANS/IEC 60529

- SUITABLE FOR USE IN ZONE 1, 2, 20, 21 & 22
- I.A. CERTIFICATE: MASC MS/19-9011X
- IECEx ICS 19.0018X

## 2 PRODUCT DESCRIPTION

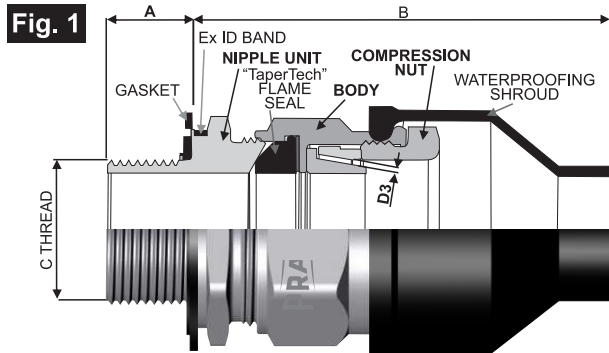


Fig. 2

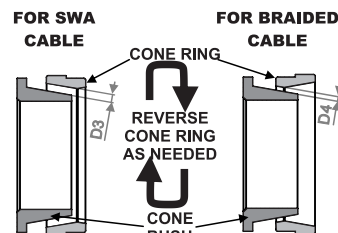


Table 1

			0s	0	1	2	3	4	5	6s	6L			
GLAND SELECTION INFORMATION	C	Entry Thread	Metric	M20	M20	M20	M25	M32	M40	M50	M63	M63		
			NPT	½"	½"	½"	¾"	¾"	1"	1"	1¼"	1½"	2"	2½"
	A	Thread Length	Metric	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
			NPT	19.9	19.9	19.9	20.2	20.2	25.0	25.0	25.6	26.0	26.9	39.9
	(D1)	Bedding Diameter	Min	6.5	8.5	12.6	14.7	20.4	26.3	34.7	43.3	49.3		
			Max	8.5	12.6	14.7	20.4	26.3	34.7	43.3	49.3	55.8		
	(D2)	Outer Sheath Diameter	Min	10.3	12.6	16.0	21.5	25.0	32.5	42.0	52.5	52.5		
			Max	14.0	18.6	22.1	27.2	33.2	43.2	53.2	67.0	67.0		
	(D3)	Armour Wire Size	Min	0.9	0.9	0.9	1.25	1.6	1.6	2.0	2.5	2.5		
			Max	1.25	1.25	1.25	1.6	2.0	2.0	2.5	3.0	3.0		
	(D4)	Braid Thickness	Min	N/A	0.3	0.3	0.3	0.4	0.6	0.8	0.8	0.8		
			Max	N/A	1.0	1.2	1.2	1.5	1.6	1.7	1.7	1.7		
B	Max Protrusion Length			64.0	64.0	72.0	80.0	90.0	103.0	123.0	151.0	151.0		
AC	Max Diameter			31.0	31.0	34.0	40.0	51.0	63.0	79.0	102.0	102.0		
T1	Install Torque (Seal)(Nm)			15.0	20.0	25.0	35.0	55.0	75.0	90.0	115.0	115.0		
T2	Install Torque (Armour)(Nm)			13.0	15.0	20.0	25.0	35.0	50.0	65.0	75.0	75.0		
L1	Bedding Trim Length (min)			33.0	33.0	35.0	37.0	40.0	43.0	48.0	52.0	52.0		
L2	Armour/Braid Trim Length (max)			23.0	23.0	26.0	27.0	30.0	32.0	42.0	46.0	46.0		

Scan this QR code to view the Pratley Electrical website.

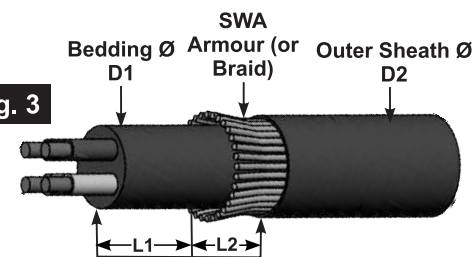


## 3 CABLE PREPARATION

### PROCEDURE:

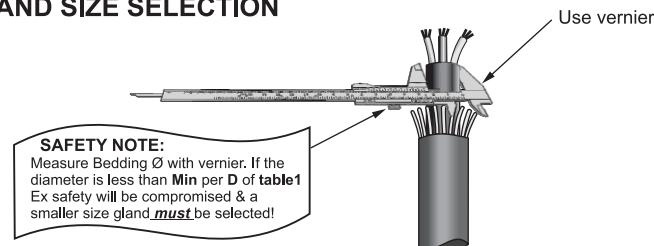
- Check the cable bedding dimension per Fig. 4 and ensure correct size gland is selected.
- Trim back the cable outer sheath to the desired length L1 + L2 (or longer).
- Cut the armour wires or braid to specified length L2 per Table 1.

Fig. 3



## 4 CHECK GLAND SIZE SELECTION

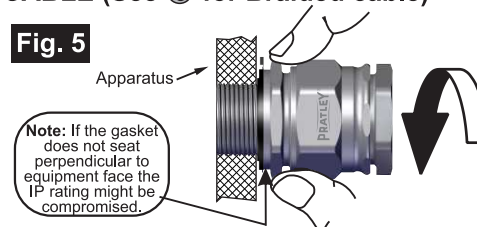
Fig. 4



## 5 FITTING PROCEDURE FOR SWA CABLE (See 6 for Braided cable)

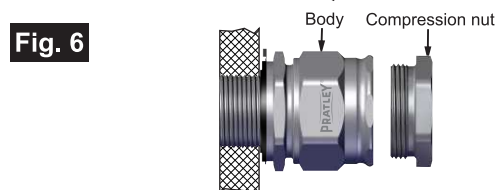
- (Fig. 5) Screw the complete cable gland assembly into the apparatus threaded entry, as shown.

Fig. 5



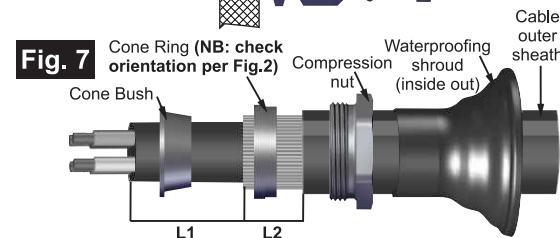
- (Fig. 6) Unscrew the compression nut from the gland body.

Fig. 6



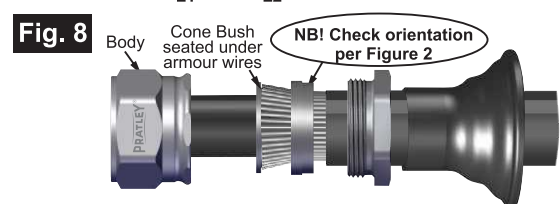
- (Fig. 7) First slide the waterproofing shroud (inside out) and then the compression nut over the armour or cable outer sheath, size permitting. Then fit the cone ring over the armouring (ensure the cone ring is the correct way around per Fig. 2 for SWA cable).

Fig. 7



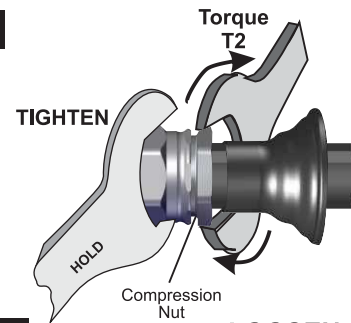
- (Fig. 8) Splay the armour wires and seat the Cone Bush under them.

Fig. 8



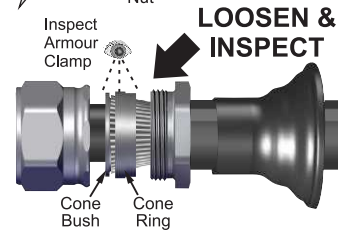
5.e) (Fig. 9) Tighten the Compression Nut onto the gland body to torque T2.

Fig. 9



f) (Fig. 10) Disassemble the gland to inspect the armour clamp.

Fig. 10

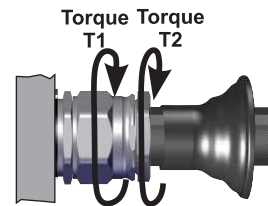


5. (Fig. 11) In sequence:

g) First: Torque the body unit to Torque T1 in Table 1, to effect a flameproof seal on the cable bedding.

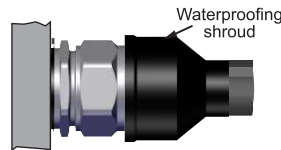
h) Then: Re-tighten the compression nut to the gland body and tighten to Torque T2 in Table 1.

Fig. 11



i) (Fig. 12) Roll the shroud the right way around, to fit into the groove and create a waterproof seal (IP68).

Fig. 12



**CONGRATULATIONS!**

You now have a safe

PRATLEY® IP68 Ex d/e termination.

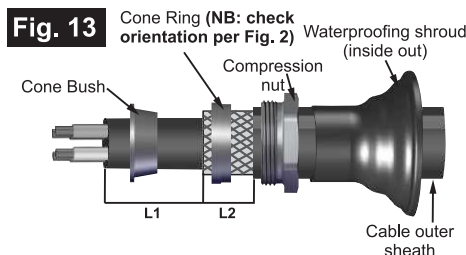
## ⑥ GLAND FITMENT FOR BRAIDED CABLE

6.a) Screw the complete cable gland body into the apparatus threaded entry, as shown for SWA cable. (Fig. 5)

b) Unscrew the compression nut from the gland body. (Fig. 6)

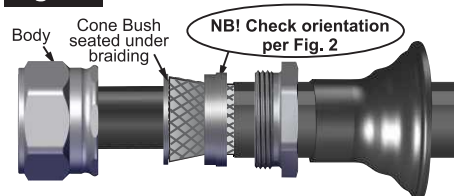
c) (Fig. 13) First slide the Waterproofing shroud (inside out) & then the compression nut over the cable outer sheath. Then fit the cone ring over the braid (making sure to **reverse the cone ring for braided cable** per Fig. 2).

Fig. 13



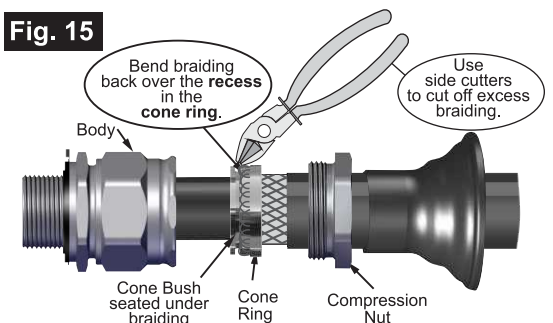
d) (Fig. 14) Splay the braiding and seat the Cone Bush under the braiding.

Fig. 14



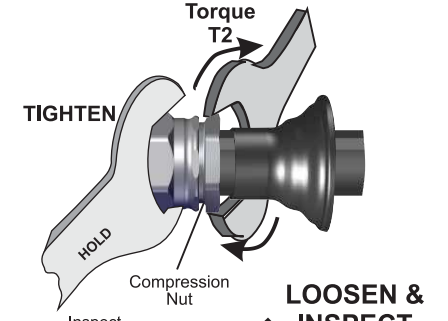
6 e)(Fig. 15) Bend braiding back over the recess in the cone ring, use side cutters to cut off excess braiding.

Fig. 15



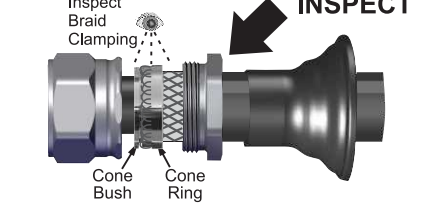
f)(Fig. 16) Tighten the Compression Nut onto the gland body.

Fig. 16



g)(Fig. 17) Disassemble the gland to inspect the braid clamping.

Fig. 17

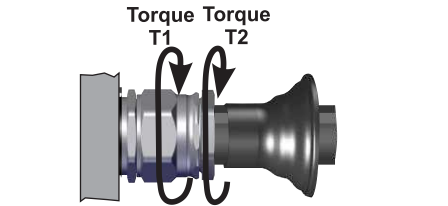


6.(Fig. 18) In sequence:

h)First: Torque the body unit to Torque T1 in Table 1, to effect a flameproof seal on the cable bedding.

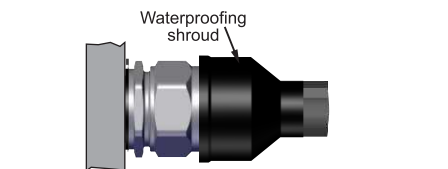
i)Then: Re-tighten the compression nut to the gland body to Torque T2 in Table 1.

Fig. 18



j)(Fig. 19) Roll the shroud the right way around, to fit into the groove and create a waterproof seal (IP68).

Fig. 19



**CONGRATULATIONS!**

You now have a safe

PRATLEY® IP68Ex d/e termination.

## ⑦ INSPECTION

- Periodic inspection of seals for damage and a tightening torque check should be carried-out by trained personnel.

## ⑧ MAINTENANCE & REPAIR

- This product contains no parts which may be repaired.
- Only the Seals may be replaced and they must be sourced from Pratley.
- Inspection of termination & condition of seals may only be carried-out by trained personnel.
- Any incorrectly fitted, damaged or modified parts will invalidate the type of protection.

Pratley (Pty) Ltd declares that this product complies with the requirements of the above listed standards.