

TECHNICAL DATA	
CABLE GLAND TYPE	: A2F100, RA2F100, TC, RTC
INGRESS PROTECTION	: IP66, IP67, IP68, Enclosure Type 4X, 6, 6P
PROCESS CONTROL SYSTEM	: ISO 9001 ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No
ATEX CERTIFICATION CODE

UKEX CERTIFICATION No
UKEX CERTIFICATION CODE

IECEX CERTIFICATION No
IECEX CERTIFICATION CODE
CSA CERTIFICATION No
CSAus CERTIFICATION CODE

cCSA CERTIFICATION CODE

UL CERTIFICATION No
ULUS CERTIFICATION CODE
cUL CERTIFICATION CODE

- : CML 18ATEX1307, CML 18ATEX4311
- Ⓢ II 2G Ex db IIC Gb, II 2G Ex eb IIC Gb, II 1D Ex ta IIIC Da
- Ⓢ II 3G Ex nR IIC Gc Ⓢ I M2 Ex db I Mb, Ex eb I Mb IP66, IP67, IP68
- : CML 21UKEX1247, CML 21UKEX4248
- Ⓢ II 2G Ex db IIC Gb, II 2G Ex eb IIC Gb, II 1D Ex ta IIIC Da
- Ⓢ II 3G Ex nR IIC Gc Ⓢ I M2 Ex db I Mb, Ex eb I Mb IP66, IP67, IP68
- : IECEX CML 18.0172, IECEX SIM 17.0010
- : Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc, Ex db I Mb, Ex eb I Mb IP66, IP67, IP68
- : CSA20CAB0036227
- : CLASS 4418 85 - CABLE - Hardware - For Hazardous Locations - Certified to U.S. Standards Class I Zone 1 AEx eb IIC Gb Zone 20 AEx ta IIIC Da Type 4X; Type 6; Type 6P; IP66; IP67; IP68; Oil resistant II
- : CLASS 4418 05 - CABLE - Hardware for hazardous locations - Class I, Division 2 Groups A, B, C and D; Class II Division 2 Groups F, G; Class III Division 2 Ex db IIC Gb; Ex eb IIC Gb; Ex nR IIC Gc; Ex ta IIIC Da Type 4X; Type 6; Type 6P; IP66; IP67; IP68; Oil resistant II
- : ES09101
- : Class I Zone 1 AEx eb IIC Gb Zone 20 AEx ta IIIC Da Type 4X; Type 6; Type 6P; IP66; IP67; IP68; Oil resistant II
- : Ex eb IIC Gb; Ex nR IIC Gc; Ex ta IIIC Da Type 4X; Type 6; Type 6P; IP66; IP67; IP68; Oil resistant II

IMPORTANT NOTES FOR INSTALLERS

- Read all instructions before beginning installation. Installation shall only be performed by competent, suitably trained personnel, (in accordance with EN/IEC 60079-14 or CEC/NEC (Initial Inspection)) using the correct tools; spanners should be used for tightening.
- The interface between a cable entry device and its associated enclosure / cable entry may require additional sealing to achieve ingress protection (IP) ratings higher than IP54. The minimum protection level is IP54 for explosive gas atmospheres and IP6X for explosive dust atmospheres. Parallel threads (and tapered threads when using a non-threaded entry) require a CMP sealing washer or integral O-ring face seal (where available) to maintain IP66, 67 and 68 (when applicable). It is the installers responsibility to ensure the IP rating is maintained at the interface, within the limitations of the sealing method detailed in the Sealing Method table. Note: when fitted to a threaded entry, all tapered threads will automatically provide an ingress protection rating of IP66.
- The standard product temperature range is -60°C to +130°C (UL certified Flexible Cord temperature range -60°C to +65°C). The equipment should not be used outside of this range.
- Cable glands do not have any serviceable parts and are therefore not intended to be repaired.
- Cable glands are manufactured from Brass, Nickel Plated Brass, Stainless Steel, Mild Steel (IECEX/ATEX) or Aluminium, with Silicone seals. The end user shall consider the performance of these materials with regard to attack by aggressive substances that may be present in the hazardous area. Consideration should be given to potential degradation due to galvanic corrosion at the interface of dis-similar metallic materials.
- It is the end user's responsibility to ensure the equipment materials are suitable for their final installation location. If in doubt consult CMP Products Limited.
- Once installed do not dismantle, except for inspection or maintenance, conducted as per IEC/EN 60079-17 or CEC/NEC by a qualified person. Then reassemble as instructed, ensuring the outer seal nut is correctly tightened to ensure the cable is secured.
- (IECEX/ATEX) 3/8" NPT, Ingress Discs (all materials) and Aluminium Cable Glands not to be used for Group I applications.
- Metric entry threads comply with ISO 965-1 and ISO 965-3 with a 6g tolerance as required by IEC 60079-1:2014. The CMP standard metric thread pitch is 1.5mm for threads up to M75, and 2.0mm from M90 and above. Special thread pitches between 0.7 – 2.0mm are available on all products on request. See certificate for details of other thread types, NPT threads are in accordance with ASME B1.20.1-2013 gauging to J 3.2 for external threads. For details of other thread types refer to IECEX certificate.
- The enclosure surface finish must be smooth and flat to facilitate sealing with an O-ring or Entry Thread Sealing Washer for the required IP rating.
- Enclosure walls must be sufficiently strong enough to support the cable and cable gland assembly. Enclosure entries must be perpendicular. Any draft angles from the casting/moulding process should have a perpendicular flat spot machined to facilitate sealing with an O-ring or Entry Thread Sealing Washer.
- CMP Products recommends when using the cable gland with a through-hole, the hole must be circular, free of burrs and the diameter no larger than the thread major diameter that will interfere with sealing. A suitable CMP Products locknut shall be used to secure the product. See CMP Products catalogue for locknut options.
- A CMP earth tag should be used when it is necessary to provide an earth bond connection. CMP earth tags have been independently tested to comply with Category B rating specified in IEC 62444 (no ratings stated in IEC 60079-0). Ratings are shown in the associated table. CMP earth tags slip over the cable gland or accessory entry thread from inside/outside the enclosure and must be secured with a locknut (if fitted internally).
- cCSAus and cULus certification is up to gland size 75. This is for cable types TC, TC-ER, TC-ER-HL and unarmoured marine shipboard cables only, each with or without EMI shield. Cables and cable glands must be installed as per the relevant local installation code.
- cULus certification for flexible cord is up to gland size 50S.
- (cCSAus) The cable glands when used in Class 1 Division 2 Classified areas, are not suitable to be interfaced with an explosion proof or dust ignition proof enclosure containing arcing and sparking devices and/or high temperature devices, unless installed in conjunction with an approved explosion proof/dust ignition proof sealing fitting.
- (cCSAus) Cable gland trade sizes 16 and 16P when installed in clearance hole enclosure entry are not suitable for 'AEx eb' or 'AEx ta' applications.
- (cCSAus) Cable glands manufactured from unplated brass are not suitable for Type 4X, Type 6 or Type 6P rated enclosures.
- (cCSAus) The cable gland is suitable for maintaining enclosure IP ratings and Type ratings as detailed on first page.
- (cULus) a CMP Entry Thread Sealing Washer or O-ring face seal must be used when Flexible cords are installed in Wet Locations.
- (cULus) The installation temperature range is -20°C to + 50°C

IEC 62444 Earth Tag Ratings	
CMP Earth Tag Size	Short Circuit Ratings Symmetrical Fault Current (kA) for 1 second
20	3.06
25	4.06
32	5.40
40	7.20
50	10.40
63	10.40
75	10.40

ACCESSORIES

The following optional accessories are available to assist with fixing, sealing and earthing: Locknut, Ingress Disc, Grounding Locknut, Earth Tag, Serrated Washer, Entry Thread (I.P.) Sealing Washer, Shroud.

SPECIFIC CONDITIONS OF USE

None
 CMP Products Limited on its sole responsibility declares that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and UK statutory requirements SI 2016 No. 1107 (as amended). This is shown in the following harmonised/designated standards;

EN 60079-0:2018, EN 60079-1:2014, EN 60079-2:2015 + A1:2018, EN 60079-15:2017 + A1:2018, EN 60079-31:2014, BS 6121:1989, EN 62444:2013

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 17th March 2020



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Approved Body: Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ



SCAN FOR INSTALLATION VIDEOS



INSTALLATION INSTRUCTIONS FOR A2F100, RA2F100, RTC CABLE GLAND

A2F100, RA2F100, RTC, AND LOW PROFILE VARIANT CABLE GLANDS FOR USE WITH UNARMoured AND BRAID ARMoured CABLES (IECEX/ATEX), FOR USE WITH TRAY CABLES, UNARMoured AND SHIELDED MARINE SHIPBOARD CABLES (CSA & UL), AND FOR FLEXIBLE CORD (UL)

INCORPORATING EU DECLARATION OF CONFORMITY TO DIRECTIVE 2014/34/EU AND UK STATUTORY REQUIREMENTS SI 2016 No. 1107 (AS AMENDED)

A2F100 - no face seal

RA2F100 & RTC - with face seal



SHIPBOARD CABLE SEALING FITTING FOR USE IN HAZARDOUS LOCATIONS 462M



TYPE TC CABLE SEALING FITTING FOR USE IN HAZARDOUS LOCATIONS 5907

Cable Gland Size	Available Entry Threads (Alternative Metric Thread Lengths Available)					Overall Cable Diameter		RA2F100 Across Flats	RA2F100 Across Corners	A2F100 Across Flats	A2F100 Across Corners	Protrusion Length
	Standard			Option		Min	Max	Max	Max	Max	Max	Max
	Metric	Thread Length (Metric)	NPT	Thread Length (NPT)	NPT							
+ 16 §	M16	15.0	3/8"	15.3 (0.602)	-	3.2 (0.126)	8.0 (0.315)	24.0 (0.945)	26.4 (1.039)	24.0 (0.945)	26.4 (1.039)	34.9 (1.374)
+ 16P §	M16	15.0	-	-	-	3.2 (0.126)	8.0 (0.315)	-	-	22.0 (0.866)	24.2 (0.953)	34.7 (1.366)
+ 20S16 §	M20	15.0	1/2"	19.9 (0.783)	3/4"	3.2 (0.126)	8.0 (0.315)	27.0 (1.063)	29.7 (1.169)	24.0 (0.945)	26.4 (1.039)	31.4 (1.236)
+ 20S16P §	M20	15.0	-	-	-	3.2 (0.126)	8.0 (0.315)	-	-	22.0 (0.866)	24.2 (0.953)	32.1 (1.264)
+ 20S §	M20	15.0	1/2"	19.9 (0.783)	3/4"	6.5 (0.256)	11.2 (0.441)	27.0 (1.063)	29.7 (1.169)	24.0 (0.945)	26.4 (1.039)	32.1 (1.264)
+ 20SP §	M20	15.0	-	-	-	6.5 (0.256)	11.2 (0.441)	-	-	22.0 (0.866)	24.2 (0.953)	32.1 (1.264)
+ 20	M20	15.0	1/2"	19.9 (0.783)	3/4"	7.0 (0.256)	13.5 (0.531)	27.0 (1.063)	29.7 (1.169)	27.0 (1.063)	29.7 (1.169)	35.8 (1.409)
+ 20P	M20	15.0	-	-	-	7.0 (0.256)	13.5 (0.531)	-	-	24.0 (0.945)	26.4 (1.039)	41.4 (1.630)
+ 20L	M20	15.0	1/2"	19.9 (0.783)	3/4"	8.7 (0.343)	14.0 (0.551)	27.0 (1.063)	29.7 (1.169)	27.0 (1.063)	29.7 (1.169)	34.3 (1.350)
+ 20LP	M20	15.0	-	-	-	8.7 (0.343)	14.0 (0.551)	-	-	24.0 (0.945)	26.4 (1.039)	41.4 (1.630)
+ 25	M25	15.0	3/4"	20.2 (0.795)	1"	11.5 (0.453)	19.5 (0.768)	36.0 (1.417)	39.6 (1.559)	36.0 (1.417)	39.6 (1.559)	40.4 (1.591)
+ 25P	M25	15.0	-	-	-	11.5 (0.453)	19.5 (0.768)	-	-	32.0 (1.260)	35.2 (1.386)	49.7 (1.957)
+ 25L	M25	15.0	3/4"	20.2 (0.795)	1"	14.0 (0.551)	20.0 (0.787)	36.0 (1.417)	39.6 (1.559)	36.0 (1.417)	39.6 (1.559)	39.9 (1.571)
+ 25LP	M25	15.0	-	-	-	14.0 (0.551)	20.0 (0.787)	-	-	32.0 (1.260)	35.2 (1.386)	49.7 (1.957)
+ 32	M32	15.0	1"	25.0 (0.984)	1 1/4"	19.0 (0.748)	25.5 (1.004)	41.0 (1.614)	45.1 (1.776)	41.0 (1.614)	45.1 (1.776)	38.5 (1.516)
32L	M32	15.0	1"	25.0 (0.984)	1 1/4"	20.2 (0.795)	26.3 (1.035)	41.0 (1.614)	45.1 (1.776)	41.0 (1.614)	45.1 (1.776)	38.9 (1.531)
+ 40	M40	15.0	1 1/4"	25.6 (1.008)	1 1/2"	25.0 (0.984)	32.2 (1.268)	50.0 (1.969)	55.0 (2.165)	50.0 (1.969)	55.0 (2.165)	39.1 (1.539)
+ 50S	M50	15.0	1 1/2"	26.1 (1.028)	2"	31.0 (1.220)	38.2 (1.504)	60.0 (2.362)	66.0 (2.598)	60.0 (2.362)	66.0 (2.598)	41.4 (1.630)
50	M50	15.0	2"	26.9 (1.059)	2 1/2"	35.6 (1.402)	44.0 (1.732)	60.0 (2.362)	66.0 (2.598)	60.0 (2.362)	66.0 (2.598)	45.8 (1.803)
63S	M63	15.0	2"	26.9 (1.059)	2 1/2"	41.5 (1.634)	49.9 (1.965)	75.0 (2.953)	82.5 (3.248)	70.5 (2.776)	77.6 (3.055)	43.3 (1.705)
63	M63	15.0	2 1/2"	39.9 (1.571)	3"	48.2 (1.898)	54.9 (2.161)	75.0 (2.953)	82.5 (3.248)	75.0 (2.953)	82.5 (3.248)	43.6 (1.717)
75S	M75	15.0	2 1/2"	39.9 (1.571)	3"	54.0 (2.126)	61.9 (2.437)	89.9 (3.539)	98.9 (3.894)	84.0 (3.307)	92.4 (3.638)	45.4 (1.787)
75	M75	15.0	3"	41.5 (1.634)	3 1/2"	61.1 (2.406)	67.9 (2.673)	89.9 (3.539)	98.9 (3.894)	84.0 (3.307)	92.4 (3.638)	49.0 (1.929)
90	M90	24.0	3"	41.5 (1.634)	3 1/2"	66.6 (2.622)	79.9 (3.146)	108.0 (4.252)	118.8 (4.677)	108.0 (4.252)	118.8 (4.677)	66.0 (2.598)
100	M100	24.0	3 1/2"	42.8 (1.685)	4"	76.0 (2.992)	89.0 (3.504)	123.0 (4.843)	135.3 (5.327)	123.0 (4.843)	135.3 (5.327)	72.2 (2.843)
115	M115	24.0	4"	44.0 (1.732)	5"	86.0 (3.386)	97.9 (3.854)	133.4 (5.252)	146.7 (5.776)	133.4 (5.252)	146.7 (5.776)	69.9 (2.752)
130	M130	24.0	5"	46.8 (1.843)	-	97.0 (3.819)	114.9 (4.524)	152.4 (6.000)	167.6 (6.598)	152.4 (6.000)	167.6 (6.598)	81.1 (3.193)

Dimensions are displayed in millimetres and inches unless otherwise stated

† Sealing Ranges for UL Marking (Flexible Cord Only)			
Gland Size	Min	Max	
16 / 16P	6.7 (0.264)	8.0 (0.315)	
20S16 / 20S16P	6.7 (0.264)	8.0 (0.315)	
20S / 20SP	6.7 (0.264)	11.2 (0.441)	
20 / 20P	7.0 (0.276)	13.5 (0.531)	
20L / 20LP	8.7 (0.343)	13.7 (0.539)	
25 / 25P	11.5 (0.453)	19.5 (0.768)	
25L / 25LP	14.4 (0.567)	20.0 (0.787)	
32	19.0 (0.748)	25.5 (1.004)	
40	25.9 (1.020)	31.5 (1.240)	
50S	31.0 (1.220)	38.2 (1.504)	

	Sealing Method			
	Nylon Entry Thread Seal	Viton O-Ring	Silicone O-Ring	NPT Threaded Entry**
IP Rating	IP66/67/68/69/69K	IP66/67/68/69/69K	IP66/67/68/69/69K	IP66/67/68/69/69K
IPX8 Conditions*	IP68 - 100M (10 Bar) / 24 Hours *	IP68 - 100M (10 Bar) / 24 Hours *	IP68 - 100M (10 Bar) / 24 Hours *	IP68 - 100M (3 Bar) / 24 Hours *
NEMA Type Rating	Type 4X/6/6P	Type 4X/6/6P	Type 4X/6/6P	Type 4X/6/6P
Impact Rating	20 Joules (2J Fer M10, M12 Only)	20 Joules	7 Joules	20 Joules (2J Fer 14", 3/8" Only)
Operating Temperature	-60°C to +130°C	-60°C to +130°C	-60°C to +180°C	As Per Product Rating

Note: The ingress ratings and operating temperatures detailed here refer to the sealing method ONLY; these may exceed the IP rating/operating temperature of the product, in which case the operating temperature of the product must be considered for the installation.

* Alternative IP68 submersion depths and durations are available on request from CMP Products

** As good engineering practice, CMP recommends installers to add additional non-setting, non-metallic, non-combustible thread sealant or grease to NPT threads, to assist in maintaining the equipment Ingress Protection rating in the long-term. This is particularly important on IP67/68/69/69K installations.

<p>§ Minimum Cable Range for Canada Division Locations Only</p>	16	6.2 (0.244)
	16P	6.2 (0.244)
	20S16	6.2 (0.244)
	20S16P	6.2 (0.244)
	20S	7.7 (0.303)
	20SP	7.7 (0.303)
	20P	7.7 (0.303)

FI492		
Certificate	Revision	Date
UKEX	0	04/21
IFS	20	05/25
ATEX / IECEX	11	04/19
UL	1	05/25
CSA	1	08/20

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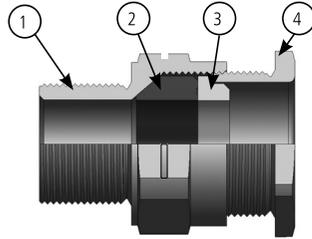


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INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES A2F100, RA2F100

CABLE GLAND COMPONENTS

1. Entry Item
2. Seal
3. Skid Washer
4. Seal Nut



PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

USING OPTIONAL CMP INGRESS DISCS

CMP ingress discs are used as a means of maintaining the integrity of the enclosure and exclude dust and moisture, enabling the cable gland to be installed prior to the cable.

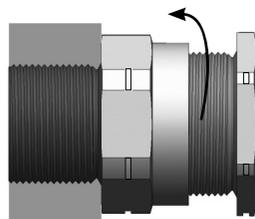
Ingress discs are rated to IP66.

Do not re-use the disc once removed.



*Seal nut (3) should be loosened to relax the seal (2) then tightened using finger pressure until light resistance is felt, then turn the seal nut:
16 – 25 = 2 turns
32 – 75s = 2.5 turns
 with a spanner

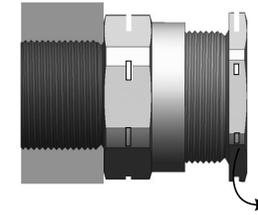
1. Fit the gland into the equipment and fully tighten the entry item (1). When the gland is fitted into a through-hole clearance fully tighten the lock nut. RA2F100 'O' ring face seal will engage when fully tightened



2. Determine the conductor length required to suit the installation and prepare the cable accordingly, removing part of the outer sheath where required to reveal the insulated conductors.

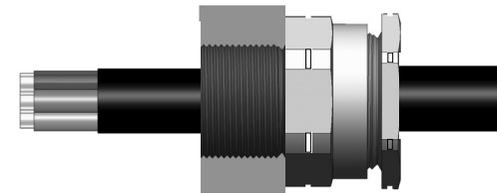


3. Slacken the seal nut (3) to relax the seal (2).



4. Only using finger pressure, tighten the seal nut until light resistance to tightening is met.

Then use the seal tightening guide table below to determine how much further to tighten the seal using a spanner.



Number of turns to tighten	GLAND SIZE																				
	16/16P	20S16/20S16P	20S/20SP	20/20P	20L/20LP	25/25P	25L/25LP	32	32L	40	50S	50	63S	63	75S	75	90	100	115	130	
	CABLE DIAMETER MM (inch)																				
1.0										32.2 (1.268)	44.0 (1.732)	49.6 (1.953)								89.0 (3.504)	114.7 (4.516)
1.5	8.0 (0.315)	8.0 (0.315)			14.0 (0.551)	19.5 (0.768)	20.0 (0.787)	25.9 (1.020)	25.9 (1.020)	31.5 (1.240)	37.7 (1.484)	43.4 (1.709)	54.5 (2.146)	61.3 (2.413)	67.5 (2.657)				87.9 (3.461)	97.9 (3.854)	113.4 (4.465)
2.0	7.1 (0.280)	7.1(0.280)	11.2 (0.441)	13.0 (0.512)	13.0 (0.512)	18.7 (0.736)	19.2 (0.756)	25.0 (0.984)	25.0 (0.984)	30.7 (1.209)	36.9 (1.453)	42.7 (1.681)	53.9 (2.122)	60.6 (2.386)	66.7 (2.626)				87.2 (3.433)	96.9 (3.815)	112.1 (4.413)
2.5	8.0 (0.315)	6.0 (0.236)	10.6 (0.417)	11.9 (0.469)	11.9 (0.469)	17.8 (0.701)	18.4 (0.724)	24.1 (0.949)	24.1 (0.949)	29.9 (1.177)	36.0 (1.417)	42.0 (1.654)	53.2 (2.094)	59.9 (2.358)	65.8 (2.591)				86.5 (3.406)	95.9 (3.776)	110.8 (4.362)
3.0	4.8 (0.189)	4.8 (0.189)	9.9 (0.390)	10.8 (0.425)	10.8 (0.425)	16.9 (0.665)	17.7 (0.697)	23.1 (0.909)	23.1 (0.909)	29.1 (1.146)	35.3 (1.390)	41.3 (1.626)	52.4 (2.063)	59.2 (2.331)	65.0 (2.559)	79.7 (3.138)			85.7 (3.374)	94.8 (3.732)	109.6 (4.315)
3.5	3.2 (0.126)	3.2 (0.126)	9.1 (0.358)	9.7 (0.382)	9.7 (0.382)	15.9 (0.626)	16.9 (0.665)	22.0 (0.866)	22.0 (0.866)	28.2 (1.110)	34.6 (1.362)	40.7 (1.602)	51.7 (2.035)	58.4 (2.299)	64.1 (2.524)	77.4 (3.047)			85.0 (3.346)	93.8 (3.693)	108.3 (4.264)
4.0			8.0 (0.315)	8.6 (0.339)	8.7 (0.343)	14.8 (0.583)	16.2 (0.638)	20.9 (0.823)	20.9 (0.823)	27.4 (1.079)	33.9 (1.335)	40.0 (1.575)	50.8 (1.987)	57.5 (2.264)	63.3 (2.492)	75.1 (2.957)			84.3 (3.319)	92.7 (3.650)	107.1 (4.217)
4.5			6.5 (0.256)	7.5 (0.295)		14.0 (0.551)	15.4 (0.606)	19.6 (0.772)	20.2 (0.795)	26.5 (1.043)	33.3 (1.311)	39.3 (1.547)	44.6 (1.756)	50.6 (1.995)	56.6 (2.228)	72.9 (2.870)			83.6 (3.291)	91.7 (3.610)	105.8 (4.165)
5.0						12.1 (0.476)	14.7 (0.579)			18.7 (0.736)	24.8 (0.976)	30.8 (1.212)	38.7 (1.524)	45.8 (1.803)	52.5 (2.069)	61.6 (2.425)			82.8 (3.260)	90.6 (3.567)	104.6 (4.118)
5.5							14.0 (0.551)				22.1 (0.871)	28.1 (1.106)	34.1 (1.343)	42.3 (1.667)	50.0 (1.968)				81.1 (3.193)	89.6 (3.528)	103.4 (4.071)
6.0										31.5 (1.240)	37.5 (1.476)	43.5 (1.712)	54.5 (2.146)	61.5 (2.421)					86.6 (3.386)	96.6 (3.800)	112.6 (4.431)
6.5											31.0 (1.220)	37.0 (1.455)	43.0 (1.691)	54.0 (2.126)					80.7 (3.177)	89.7 (3.535)	102.6 (4.034)
7.0												36.0 (1.417)							76 to 79.9 (2.992 to 3.146)		99.8 (3.929)
7.5																					98.6 (3.882)
8.0																					97.5 (3.839)

Number of turns to tighten	GLAND SIZE											
	16/16P	20S16/20S16P	20S/20SP	20/20P	20L/20LP	25/25P	25L/25LP	32	40	50S		
	CABLE DIAMETER MM (inch)											
2.0	8.0 (0.315)	8.0 (0.315)				19.5 (0.768)	20.0 (0.787)	25.5 (1.004)				
2.5	6.7 (0.264)	6.7 (0.264)				18.3 (0.720)	19.1 (0.752)	24.4 (0.961)				
3.0					13.5 (0.531)	13.7 (0.539)	17.2 (0.677)	18.2 (0.717)	23.3 (0.917)	31.5 (1.240)		
3.25					11.2 (0.441)	12.8 (0.504)	13.2 (0.520)	16.6 (0.654)	17.8 (0.701)	22.8 (0.898)	30.8 (1.213)	
3.5					10.7 (0.421)	12.2 (0.480)	12.7 (0.500)	16.0 (0.630)	17.4 (0.685)	22.2 (0.874)	30.1 (1.185)	38.2 (1.504)
4.0					9.7 (0.382)	10.9 (0.429)	11.7 (0.461)	14.9 (0.587)	16.5 (0.650)	21.1 (0.831)	28.7 (1.130)	37.3 (1.469)
4.5					8.7 (0.343)	9.6 (0.378)	10.7 (0.421)	13.7 (0.539)	15.6 (0.614)	20.0 (0.787)	27.3 (1.075)	36.4 (1.433)
5.0					7.7 (0.303)	8.3 (0.327)	9.7 (0.382)	12.6 (0.496)	14.8 (0.583)	19.0 (0.748)	25.9 (1.020)	35.5 (1.398)
5.25					7.2 (0.283)	7.6 (0.299)	9.2 (0.362)	12.0 (0.472)	14.4 (0.567)			35.0 (1.378)
5.5					6.7 (0.264)	7.0 (0.276)	8.7 (0.343)	11.5 (0.453)				34.6 (1.362)
6.0												33.7 (1.327)
6.5												32.8 (1.291)
7.0												31.9 (1.256)
7.5												31.0 (1.220)