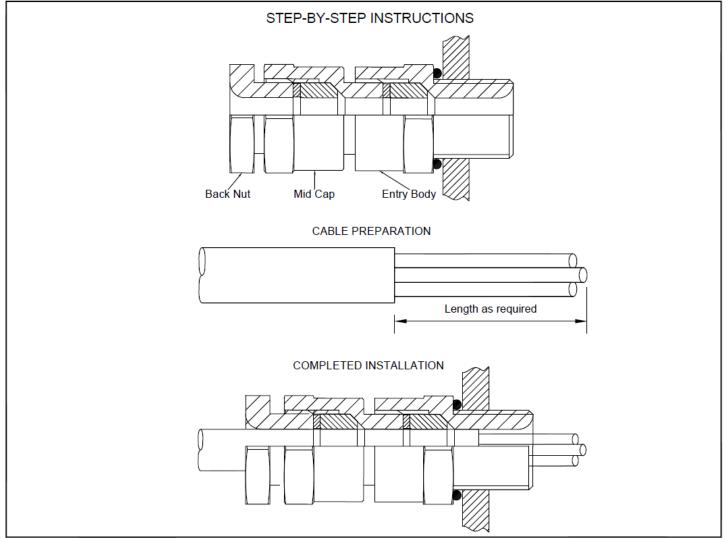
A*LDS** Type Cable Glands – ASSEMBLY INSTRUCTIONS

Brief Description

Peppers A*LDS** type cable glands are for outdoor use in the appropriate Hazardous Areas with unarmoured, braided or armoured cable, where the braid or armour is to be terminated inside the enclosure. They provide a double displacement seal on the cable outer sheath and give environmental protection to IP66, IP67 & IP68 (50 metres for 7 days) and deluge.

Warning

Please read these instructions carefully. These products should not be used in applications except as detailed here or in our datasheets, unless confirmed in writing by Peppers. Peppers take no responsibility for any damage, injury or other consequential loss caused where products are not installed or used according to these instructions. This leaflet is not intended to advise on the selection of product. Further guidance can be found in the standards listed overleaf or the prevailing code of practice.



STEP-BY-STEP FITTING INSTRUCTIONS

1. Check there is no tension in the threads. It is not necessary to dismantle the gland.

- 2. Fit Entry Body, allowing for any installation accessories, and fully engage the thread into the equipment. Hand-tighten, then suitably secure with a wrench. Further guidance can be found in Peppers document CT0030 which can be found on our website.
- 3. Prepare cable as required for the installation. If required, fit the shroud over the cable.
- Insert cable through cable gland. Position the cable correctly. BOTH seals must grip the outer jacket of the cable when the cable gland is tightened.
 Tighten Mid Cap to Entry Body. Ensure the seal makes full contact with cable sheath and then tighten by the additional turns detailed in Table 1. Support the cable to
- prevent it from twisting during tightening.
- 6. Secure the Mid Cap with a spanner/wrench to prevent rotation. Tighten Back Nut to Mid Cap. Ensure the seal makes full contact with cable sheath and then tighten by the additional turns detailed in Table 1. Support the cable to prevent it from twisting during tightening. If fitted, pull shroud over gland assembly.

Note - Cable Glands featuring Lead Sheath Option (A1LDS** and A4LDS** types)

- To ensure that continuity is provided for the lead sheath and the installation is completed correctly the cable gland should be installed as follows: -
- A section of the cable outer sheath should be stripped back to expose the lead sheath. It should be stripped back in a position suitable to terminate the conductors correctly and for the internal cable gland seal to secure the cable outer sheath.
- The continuity washer within the gland should make full contact with the lead sheath of the cable.
- The contract with the grand should make full contact with the lead sheart of the The gland should then be installed as per the above instructions.
- Contact Peppers for further advice if required.

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able 1 – I	nstallation Data and Cable S	Sizes (mm)						
Gland siz	ze Mid Cap / Back Nut	Outer	Sheath					
	Turns – Steps 5 & 6	Min.	Max.					
12	1/4	0.9	6.0					
16	2	4.0	8.4					
205	1	7.2	11.7					
20 25	2 2	9.4 13.5	14.0 20.0					
32	2	19.5	26.3					
40	2	23.0	32.2					
50S	1.5	28.1	38.2					
50	2	33.1	44.1					
63S	1.5	39.2	50.1					
63	2	46.7	56.0					
75S	2	52.1	62.0					
75	2	58.0	68.0					
80	1.5	62.2	72.0					
85	1.5	69.0	78.0					
90	1.5	74.0	84.0					
100	2	82.0	90.0					
provals	and Certification							
Approval		Certificate Nu	mber	Protection Concept / Type				
	14/34/EU)	CML 19ATEX	345X / CML 21UKEX1032X	Ex II 1D 2G Ex db IIC Gb / Ex	eb IIC Gł) / Ex ta IIIC Da		
	,					-		
,	2016 No. 1107)		109X / CML 21UKEX4043X	Ex II 3G Ex nR IIC Gc	B 110 C			
ECEx		IECEx CML 19	0.0103X	Ex db IIC Gb / Ex eb IIC Gb / Ex				
CSA		1356011		Ex db IIC Gb / Ex eb IIC Gb / Ex Class I Zone 1 AEx eb IIC Gb / Z				
55A		1330011		CL II Gr EFG / CL III Type 4X / I				
NMETRO)	NCC 13.2012	X	Ex db IIC Gb / Ex eb IIC Gb / Ex				
EAC	, 		С ЕСТ RU C-GB.АЖ58.В.05106					
JKRAINE		СЦ 18.0325 Х		II 1D 2G 3G Ex db IIC Gb / Ex e				
CCC		202131231300		Ex db IIC Gb / Ex eb IIC Gb / Ex				
COE (PE	ESO)	P494321/6 & F		Ex db IIC Gb / Ex eb IIC Gb / Ex				
ECASEx	*	25-06-153223	E25-06-159811/NB0007	Ex db IIC Gb / Ex eb IIC Gb / Ex	ta IIIC Da	a / Ex nR IIC Gc		
ABS		25-0158110-P	DA	Specified ABS Rules – See cert	ificate			
_loyd's Re	egister	LR2124442TA		Ex db IIC Gb / Ex eb IIC Gb / Ex				
DNV		TAE00004XK		Ex db IIC Gb / Ex eb IIC Gb / Ex	nR IIC Go	: / Ex ta IIIC Da		
stallatio	n Guidance							
Point	Advice							
	BS/EN/IEC 60079-10 BS/EN/IEC 60079-14 National Electrical Code (NEC 500-505) Canadian Electrical Code (CSA C22.1)							
	Installation should only be carried out by a competent electrician, skilled in cable gland and appropriate electrical installations.							
	Comprehensive details of the compliance standards can be found in the product certificates which are available for download from our website.							
	NO INSTALLATION SHOULD B							
5	Threaded entries: the product ca	an be installed directly in	nto threaded entries. Threaded	I entries should comply with the releva	int applica	ble standards and have a lead-in		
			lure to provide a sufficient lead	I-in chamfer may lead to ingress sealing	ng issues.	For Ex db applications a minimum of 5		
	fully engaged threads is required							
				the external entry thread. The product				
						e used to maintain IP ratings. A Peppers		
				ot recommend using tapered threads in		e noies. enclosure. The surface should be clean		
				nt. Metric threads are supplied with an				
						an IP64. Whilst Peppers products with		
				66 without any additional sealant, due				
				lant if an IP rating higher than IP64 is i				
						ture at the point of mounting, not contain		
						a thread run out according to general		
						er to ensure a seal is maintained, furthe		
		ers website. It is the use	er's/installer's responsibility to	ensure that the interface between the	enclosure	and cable gland is suitably sealed for		
	the required application.	earth is required a D	are earth too should be used	Penners earth tags have been inder	ndently	sted to comply with the Cotogon, P		
				Peppers earth tags have been indeper thread from either inside or outside the				
						170 which can be found on our website.		
						1.5mm for threads up to M75 and 2.0m		
				rs external NPT threads comply with A				
				Information on other thread types can				
10	Once installed do not dismantle	except for routine inspe	ction. An inspection should be	conducted as per IEC 60079-17. After		on the gland should be re-assembled as		
	instructed, ensuring the compres							
	11 If required an anti-seize lubricant may be used to aid assembly and routine inspection, if used care should be taken to ensure no lubricant comes into contact with the cable							
gland seals as this may impair performance. Any lubricant used should comply with the prevailing code of practice, be suitable for use in the hazardous area or location where the equipment is installed, have a suitable temperature range and not contain evaporating solvents.								
		i, nave a suitable tempe	rature range and not contain of	evaporating solvents.				
erpretat	tion of Markings							
rkings o	on the outside of this gland car	ry the following mean	ings: A -a- LDS -b-c-eee-fff-n	n.				
a= S	eal Type	1 = Neoprene	(black) 2	= Neoprene with Continuity Washer	eee =	Gland size		
		3 = Silicone (w	hito)	- Silicone with Continuity Washer	fff =	Entry thread type and size		

а	=	Seal Type	1 = Neoprene (black)		2 = Neoprene with Continuity Washer		eee =	Gland size
			3 = Silicone (white)		4 = Silicone with Continuity Washer		fff =	Entry thread type and size
b	=	Main component material	B = Brass S = Stainless		s Steel	A = Aluminium	nn =	Year of manufacture
С	=	Design option	F = Dual certified Ex db & Ex eb		E = Ex eb certified only			

Specific Conditions of Use

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A*LDS** glands must not be used in enclosures where the temperature at the point of contact is outside the range of -35°C to +90°C using neoprene seals, or -60°C to 1.

+180°C using silicone seals. A*LDS** cable glands cable glands shall only be used for fixed installations, in addition the cables must be effectively clamped to prevent pulling or twisting. 2 3.

When installed in accordance with these instructions within appropriate equipment, A*LDS** glands are capable of providing an ingress protection of IP66 and IP68 (50 metres - 7 days).

4. When used in explosive dust atmospheres and installed in threaded entries without interface O-ring seals, A*LDS** glands shall only be fitted into enclosures that have either:

Ex

parallel entries that will ensure a minimum of 5 full threads of contact will be maintained, this is in accordance with clause 5.1.2 of IEC 60079-31. •

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tapered entries that will ensure a minimum of 3 ½ full threads of contact will be maintained, this is in accordance with clause 5.1.2 of IEC 60079-31.





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