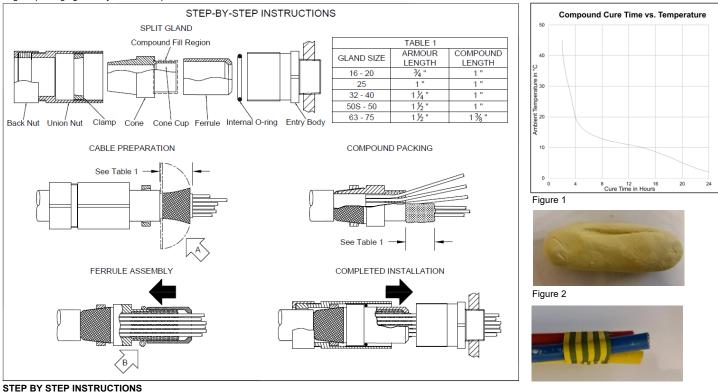
UL-C** Marine Shipboard Cable Glands featuring CROCLOCK* - ASSEMBLY INSTRUCTIONS

Brief Description

Peppers UL-C** Compound-filled cable glands featuring Croclock® are for outdoor use in the appropriate Hazardous Locations with Tray cable and Armoured Marine Shipboard cables (CEC and NEC applications), circular pliable wire, steel wire, steel tape armoured, braided, screened and unarmoured cable (IEC applications). They give environmental protection to IP66, IP68 & Type 4X.

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. The compound has application limitations and may be adversely affected by some solvent vapours. If such vapours are likely to be present when the cable gland is in service, necessary precautions should be taken. Peppers Technical Datasheet can be downloaded from our website for further guidance. The compound should be stored in its original packaging in a dry area at temperatures between 5°C and 21°C.



- Split gland as shown
- 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.
- Slide Back Nut, Mid Cap and Clamp (Rear Assembly) and shroud if required onto cable as shown. Put Ferrule and Internal O-ring to one side. 3

4 CABLE PREPARATION

- Strip off outer jacket, length to suit installation. A
- В. Cut armour. For approximate exposed lengths see Table 1.
- Remove inner sheath. Remove protective foils, and any cords/fillers from around and between the cores level with the inner sheath. Take care not to cut the C. insulating sleeves of the cores. Using Listed sleeving, pigtail and sleeve screens to be passed through compound and Entry Body.
- Tease out armour using a suitable tool (e.g. thin screwdriver) and splay out radially as shown (arrow A).
 Slide Cone all the way back onto inner sheath. Press down armour around cone. Slide Clamp onto armour. Trim armour if required. Insert cable through Entry Body and
- 5 engage Cone into Entry Body (Ferrule may be left off to aid Step 6).
- To clamp armour onto Cone, hand-tighten Mid Cap to Entry Body, then using wrench tighten a further 1 turn. Cable with maximum diameter wire armour may require an 6 additional 1/2 to 1 turn.
- 7 Unscrew Mid Cap to visually check armour is securely clamped. If armour has not clamped repeat the clamping process. Pull out cable and Cone. HEALTH AND SAFETY WARNING: The resin used in the compound can cause eye and skin irritation. For your personal protection, wear the gloves supplied whilst in contact with the compound. A COMPREHENSIVE SAFETY DATA SHEET IS AVAILABLE FOR DOWNLOAD FROM OUR WEBSITE.
- Check compound has not passed its "Use By" date. It has a work life of about 30 minutes at 16-27°C (60-80°F), during which time it can be worked and shaped before it 8 begins to cure. Full cure takes 24 hours at 16-27°C (60-80°F). Lower temperatures will give a longer cure time. E.g. at 3°C (37°F) full cure takes about seven days. See Compound Cure Time Vs. Temperature. It is recommended to mix the putty and pack the fitting at 20°C (68°F). Minimum mixing/packing temperature is 10°C. Minimum curing temperature is 3°C.
- Trim any hardened pieces from ends of stick. Mix the compound by rolling, folding and breaking. Ease mixing by cutting large sticks in half. Fully mixed compound has a 9 uniform colour with no streaks, see Figure 1.
- Support cable and Rear Assembly. Splay out cores. Starting in the middle, fill Cone Cup by packing small amounts of rolled-out compound around and between the 10 cores. Re-straighten each core and work outwards until all gaps are filled. Pack around the outside of the outer cores. Push compound down to make sure the Cone Cup is filled.
- Similarly build up compound in and around the protruding cores. Apply the compound in rolled-out strips wherever possible so that unbroken layers are formed. Where 11. joins occur in the fill or there are suspected holes, work the compound together to ensure a gas-tight seal. The cylinder of compound should project approx. 1 in / 25mm (or 1% in / 35mm for sizes 63 & 75 - see diagram). Retrieve Ferrule and pass it over cores. Locate and press Ferrule onto Cone and remove any squeezed-out compound (arrow B). Pass cores through Entry Body. Engage Ferrule in Entry Body and screw on Mid Cap. Tighten with wrench to close up the Ferrule Assembly.
- 12 Slacken off Mid Cap to inspect Cable Unit. Where the cores exit the Ferrule, projecting compound must not foul the Entry Body. Bundle cores with cable-tie, cord or tape so they are not disturbed, see figure 2. Leave to cure. Cores may be disturbed after 1 hour.
- Slide silicone O-ring over outer diameter of ferrule and ensure it is located at base of ferrule. 13
- Re-assemble Cable Unit to Entry Body ensuring the O-ring is seated on the outside of the ferrule. Fully tighten Mid Cap using wrench. Hold Mid Cap with wrench and 14 tighten Back Nut onto cable. Ensure jacket seal makes full contact with cable then tighten Back Nut 1 extra turn.

Gland Trade Size, Cable Size (imperial & metric) and Construction

		Max. Number of Cores by Approval		Maximum Diameter Over Cores		Inner Sheath		Outer Jacket Diameter									Armour Size.	
Gland Size	Standard							Standard				Reduced Bore				mm		
								Min.		Max.		Min.		Max.				
	NPT	Metric	UL	Other	inch	mm	Min.	Max.	inch	mm	inch	mm	inch	mm	inch	mm	Min.	Max.
16	1/2" & 3/4"	M20 & M25	1	15	0.409	10.4	0.461	11.6	0.362	8.4	0.531	13.5	0.264	6.7	0.406	10.3	0.15	1.25
20S	¹ / ₂ " & ³ / ₄ "	M20 & M25	4	35	0.409	10.4	0.461	11.6	0.453	11.5	0.630	16.0	0.370	9.4	0.492	12.5	0.15	1.25
20	1/2" & 3/4"	M20 & M25	8	40	0.492	12.5	0.551	14.0	0.610	15.5	0.831	21.1	0.563	14.3	0.693	17.6	0.15	1.25

Issue: 10	www.peppers.co.uk	Doc: PA114
Date: 17/06/2025	'CROCLOCK' is a registered trademark of Peppers Cable Glands Ltd	Page 1 of 2

Peppers Cable Glands Ltd. Stanhope Road Camberley GU15 3BT UK

UL-C** Marine Shipboard Cable Glands featuring CROCLOCK* - ASSEMBLY INSTRUCTIONS

Gland	Standard	Trade Size	Max. Number of Cores by Approval		Maximum Diameter Ove Cores		er Inner Shea			Standard			acket Diameter Reduced B					Armour Size, mm	
Size	NDT	Matria					Min	Max				ax.	Mi		Max.				
25	NPT ³ ⁄ ₄ " & 1"	Metric M25 & M32	UL 16	Other 60	inch 0.701	mm 17.8	Min. 0.787	Max. 20.0	inch 0.799	mm 20.3	inch 1.079	mm 27.4	inch 0.689	mm 17.5	inch 0.941	mm 23.9	Min. 0.15	Max 1.6	
32	1" & 1 ¼"	M32 & M40	30	80	0.925	23.5	1.035	26.3	1.051	26.7	1.339	34.0	0.984	25.0	1.201	30.5	0.15	2.0	
40	1 1/4" & 1 1/2"	M40 & M50	60	130	1.134	28.8	1.267	32.2	1.299	33.0	1.598	40.6	1.154	29.3	1.425	36.2	0.13	2.0	
50S	2"	M50 & M63	5	200	1.374	34.9	1.503	38.2	1.551	39.4	1.839	46.7	1.499	38.1	1.669	42.4	0.2	2.5	
50	2"	M50 & M63	5	400	1.551	39.4	1.736	44.1	1.799	45.7	2.094	53.2	1.618	41.0	1.909	48.5	0.2	2.5	
63S	2 1/2"	M63 & M75	4	400	1.764	44.8	1.972	50.1	2.051	52.1	2.343	59.5	1.846	46.9	2.157	54.8	0.3	2.5	
63	2 1/2"	M63 & M75	4	425	1.969	50	2.204	56.0	2.299	58.4	2.591	65.8	2.118	53.8	2.409	61.2	0.3	2.5	
75S	3"	M75	4	425	2.181	55.4	2.440	62.0	2.551	64.8	2.843	72.2	2.469	62.7	2.677	67.7	0.3	2.	
75	3"	M75	4	425	2.394	60.8	2.677	68.0	2.799	71.1	3.071	78.0	2.618	66.5	2.890	73.4	0.3	2.	
pproval	s and Certification	า																	
pproval	i	Certificate Nu	mber			P	Protection	n Concep	ot / Type										
TEX (20)14/34/EU)	CML 19ATEX1	349X / C	ML 21UK	EX1028	< (Ex IM2	ll 1D 2G	Ex db I M	/lb / Ex d	b IIC Gb	/ Ex eb I	Mb / Exe	eb IIC Gb	/ Ex ta II	IIC Da			
	,						€x I 3G						-		-	-			
	l 2016 No. 1107)	CML 19ATEX4		ML 210K	EX40377														
ECEx		IECEx CML 19	.0107X				Ex db I Mb						Ex nR II0	C Gc / Ex	ta IIIC D)a			
JL		E248936					Class I Div												
							Class I, Di												
SA		70004604					Class I, Di					, Div. 1, 0	Froups E	, F and G	; Class I	II; Type 4	łX		
							Ex d IIC G					(no 1X /		70no 21					
NMETRO	<u>,</u>	NCC 13.1957 2	Y				Class I Zo Ex db I Mb												
EAC	/	ПРОММАШ ТЕ		C-GB AW	58 B 051		PB Ex db l										Ex ta IIIC		
JKRAINE		СЦ 18.0324 Х			.JU.D.UJ I		M2 Ex db												
CCC	<u> </u>	202131231300	0425				Ex db I Mb											-4	
COE (PE	-50)	P494321/9 & F		20			Ex db I Mb												
	_30)	25-06-153223/			20007		Ex db I Mb)2			
ABS		25-0158110-PI		550 T //N	20001		Specified /									<i>.</i> u			
loyd's R	egister	LR2124442TA					Ex db I Mb					IIC Gh /	Fx nR II/	CGc / Ex	ta IIIC D)a			
DNV	59/3(0)	TAE00004XK					Ex db I Mb												
	Div. 1 applications		allations	Itilisina M	arino Shi							10 00/		E)					
	on Advice			aanoniy W		pooalu (Capic Wilt	ore benni		ie ieleva	n coue.								
	Advice																		
	BS/EN/IEC 60079	10		DQ/ENI/I	EC 6007	0.14			Nationa	I Electric	al Code (505)	Conodi	n Electri	cal Code	ICSA C	22 1)	
2	CEC and NEC Off		hinhoard				ivision 1 (
2	according to the p													vianne o	Inpodia	capies a	inu matai	leu	
3	Comprehensive de													ur websi	te				
4	Installation should																		
5	NO INSTALLATIC								Istanatio										
6	Threaded entries:								ntries sh	ould com	nly with t	he releva	nt annlic	ahle stan	dards an	d have a	lead-in (cham	
0	to allow for full eng																		
	engaged threads i		unoudo.	i unuro to	provido	a bannoic	Sint loud ii	i onannoi	may loc	ia to ingr	000 000	ig loodoo					or or raily	,	
7	Clearance holes: t		larger th	nan 0.7mr	n above f	the nomi	inal diame	ter of the	externa	l entry th	read The	product	should h	e secure	d with a P	Penners	locknut a	and th	
'	tightened to ensur																		
	serrated washer s															0			
8	Ingress protection															ace shou	ld be cle	an. di	
-	and must be suffic																		
	threads will mainta	ain an IP rating o	of IP64. A	Peppers	sealing	vasher s	hould be	used to n	naintain a	all IP ratii	ngs great	er than II	P64. Whil	st Peppe	rs produ	cts with t	apered tl	hread	
	when installed into																		
	tapered threads it																		
	hazardous area or																		
	and not cause cor																		
	and will not have a																		
9	on Peppers websi Where a bonding																		
9	given in IEC 6244																		
	Peppers locknut a																e secure	u wiu	
10	Peppers external																175 and '	2 0 mr	
10	for size M80 and a																		
	comply with the th																e 0.1. Al	i unea	
11	Once installed do																ascomhi	ed ac	
	instructed, ensurin												- mapecti	on the g	ana 310t		233C(11)	u as	
12	Environmental and								- onsure		- 10 000UI	<i>.</i> .							
	If required an anti-								ricant sh	ould com	ulv with t	the preve	ilina code	e of pract	ice and o	care shou	Ild he tel	cen to	
.0	ensure no lubricar										יישי אייקי.	ne pieve				2410 31101			
pproved	I Temperature Ra				J														
~P.0760			Approval					1				A II 4	Other Ap	nrovale					
		-25°C to +85°C			=						6		135°C / -7		275°F				
nviron	ental Protection	-20 0 10 +00 0	, -13 F	100 F 100 F							-0	0 0 10 +	100 07-1	υ Γ IU +	210 1				
nvironin		A												A II O4					
		Approval				00 (400		A Approv		N O'I	1.4		IDOO		her Appr				
		X / Raintight			IP66 / IP	68 (100	metres fo	or / days)	/ Type 4	X OII res	sistant II		IP66	/ 1968 (*	100 metre	es for 7 d	ays)		
•	tion of Markings																		
	on the outside of th		e tollowir	ng meanir	ngs: UL-C	⊱a-R-bb	b-ccc-nn			0'	·								
UL =	Barrier gland								bb =	Gland s									
C =	Crocklock® u	niversal clampin	g ring inc			ky resin d	compound		cc =		read type			/ ···					
a =	Main compone	ent material	ļ	B = Bra					R =				ket seal	(red)					
				S = Stai	inless ste	el		l n	nn =	Year of	manufac	ture							
oecific C	Conditions of Use																		
UL-	C** glands must no	ot be used in end	losures v	where the	tempera	ture at th	ne point o	f contact	is outsid	e the ran	ge of -25	°C to +85	5°C for UL	_ applica	tions or -	60°C to +	+135°C fo	or oth	
(IEC	C based) applicatio	ns.																	
	interface seals co																		
	unting surface. In p							nd their a	ssociate	d enclosi	ure canno	t be defi	ned, there	efore it is	the user	's respor	sibility to	o ensi	
	the appropriate in															-	-		
	C** glands with pai												d equipm	ent, in ac	cordance	e with the	e relevan	ıt	
. UL-		ctice such that a	any ingres	ss protect		estricted													
. UL- insta	allation code of pra								<u> </u>		C** along	to chall a							
. UL- insta	allation code of pra en used in explosiv	e dust atmosphe														s that ha	ve either	:	
. UL- insta	allation code of pra en used in explosiv parallel entries t	e dust atmosphe hat will ensure a	minimun	n of 5 full	threads o	of contac	t will be n	naintaine	d, this is	in accord	lance wit	h clause	5.1.2 of II	EC 6007	9-31.	s that ha	ve either	:	
UL- insta Whe •	allation code of pra en used in explosiv parallel entries t tapered entries t	e dust atmosphe hat will ensure a hat will ensure a	minimun minimur	n of 5 full m of 3 ½ f	threads of full thread	of contac Is of con	t will be n itact will b	naintaine e maintai	d, this is ned, this	in accord is in acc	dance wit	h clause with clau	5.1.2 of II se 5.1.2 o	EC 6007 of IEC 60	9-31. 079-31.	s that ha	ve either	:	
UL- insta Whe •	allation code of pra en used in explosiv parallel entries t	e dust atmosphe hat will ensure a hat will ensure a	minimun minimur	n of 5 full m of 3 ½ f	threads of full thread	of contac Is of con	t will be n itact will b	naintaine e maintai	d, this is ned, this	in accord is in acc	dance wit	h clause with clau	5.1.2 of II se 5.1.2 o	EC 6007 of IEC 60	9-31. 079-31.	s that ha	ve either	:	
UL- insta Whe •	allation code of pra en used in explosiv parallel entries t tapered entries t	e dust atmosphe hat will ensure a hat will ensure a	minimun minimur	n of 5 full m of 3 ½ f	threads of full thread	of contac Is of con	t will be n itact will b	naintaine e maintai	d, this is ned, this	in accord is in acc	dance wit	h clause with clau	5.1.2 of II se 5.1.2 o	EC 6007 of IEC 60	9-31. 079-31.	s that ha	ve either	:	
UL- insta Whe	allation code of pra en used in explosiv parallel entries t tapered entries t	e dust atmosphe hat will ensure a hat will ensure a	minimun minimur	n of 5 full m of 3 ½ f cal flamep	threads of full thread proof joint	of contac Is of con	t will be n itact will b	naintaine e maintai	d, this is ned, this	in accord is in acc	dance wit	h clause with clau	5.1.2 of II se 5.1.2 o	EC 6007 of IEC 60	9-31. 079-31.			:	
UL- insta Whe •	allation code of pra en used in explosiv parallel entries t tapered entries t	e dust atmosphe hat will ensure a hat will ensure a	minimun minimur	n of 5 full m of 3 ½ f cal flamep	threads of full thread proof joint	of contac Is of con	t will be n itact will b	naintaine e maintai	d, this is ned, this	in accord is in acc	dance wit	h clause with clau	5.1.2 of II se 5.1.2 o	EC 6007 of IEC 60	9-31. 079-31.				
UL- insta Whe •	allation code of pra en used in explosiv parallel entries t tapered entries t	e dust atmosphe hat will ensure a hat will ensure a	minimun minimur	n of 5 full m of 3 ½ f cal flamep	threads of full thread	of contac Is of con	t will be n itact will b	naintaine e maintai	d, this is ned, this	in accord is in acc	dance wit	h clause with clau	5.1.2 of II se 5.1.2 o	EC 6007 of IEC 60	9-31. 079-31.		Upyda Register	: 	