



# PRODUCT TYPE UL-U

Double Seal Barrier Gland designed for use with Unarmoured Cable featuring Peppers T-1000 Compound

Class I Div 2 : Class II Div 1 : Class III Type 4 X : Ex db : Ex eb  
Ex nR : Ex ta : AEx d : AEx e : AEx ta : IP66 : IP68

### PART NUMBERS:

UL	U	B
		S



### PRODUCT DESCRIPTION

"UL-U" type glands, certified Explosion Proof Class I Div 2, Gas Groups ABCD, Flameproof Ex db, Increased Safety Ex eb, Restricted Breathing Ex nR & Dust Protected Ex ta. They are suitable for use in Zone 1, Zone 2, Zone 20, Zone 21, Zone 22, Group I Mining, Gas Groups IIA, IIB, IIC and Dust Groups IIIA, IIIB, IIIC. Occasionally referred to as "potting glands", they provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics and an environmental seal on the outer sheath. The gland is suitable for use with all certified Marine Shipboard Cable and Tray Cable whilst being UL listed for Marine Shipboard Unarmoured, Jacketed or Non Jacketed cable. A unique feature includes, Peppers T-1000, the sealing compound that enables a quick and easy installation. The gland is AEx d, AEx e, AEx ta approved and rated Type 4X, maintains IP66, IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot.

### COMPLIANCE STANDARDS:

UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/1/7, ISA 60079-31  
C22.2 No. 0/25/30/94.1/94.2/174 & CAN/CSA C22.2 60079-0/1/7/31  
EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31  
IEC 60079-0, IEC 60079-1, 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529

### CERTIFICATION:

<b>UL</b>	Class I Division 2, Gas Groups A, B, C, D Type 4X
<b>CEC – Canada</b>	Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X Class I Zone 1 Ex d IIC Gb / Ex e IIC Gb Class II Zone 21 Ex ta IIIC Da
<b>NEC – USA</b>	Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb Class II Zone 21 AEx ta IIIC Da
<b>ATEX</b>	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
<b>IECEX</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
<b>EAC</b>	PB Ex d I Mb / 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X
<b>INMETRO – Brazil</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
<b>SAC – China</b>	Ex d IIC Gb / Ex e IIC Gb
<b>UKRAINE</b>	Ex d IIC X / Ex e II X
<b>CCoE – India</b>	Ex d IIC Gb (Zone 1) / Ex e IIC Gb (Zone 2) / Ex nR IIC Gc (Zone 2)
<b>ABS</b>	Specified ABS Rules
<b>LLOYD'S</b>	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
<b>RMRS</b>	Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex ta IIIC / Ex tb IIIC

### CERTIFICATION NO:

<b>UL</b>	E248936
<b>CEC – Canada</b>	CSA 70004604
<b>NEC – USA</b>	CSA 70004604
<b>ATEX</b>	SIRA 09ATEX1066X & SIRA 09ATEX4124X
<b>IECEX</b>	IECEX SIR 09.0033X
<b>EAC</b>	TC RU C-GB.BH02.B.00693-18
<b>INMETRO – Brazil</b>	NCC 13.1957 X
<b>SAC – China</b>	NEPSI GYJ16.1403X
<b>UKRAINE</b>	UA.TR.047.C.0408-13 & 2937
<b>CCoE – India</b>	PESO P365300/3 & P365300/10
<b>ABS</b>	14-LD463991A-1-PDA
<b>LLOYD'S</b>	10/00056(E1)
<b>RMRS</b>	14.02755.315

REFERENCE NUMBER: 4.6.1

EXAMPLE PART NUMBERING:  
UL-UB/NP/20/075NPT

<b>UL-U</b>	Gland featuring a Compound (Barrier) Inner Seal with Nickel Entry Thread
<b>B</b>	Brass (B) / Stainless Steel (S)
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH Shroud (3)
<b>K-V-H</b>	Locknut & Nylon (K), Fibre (V) or PTFE (H) IP Washer
<b>T</b>	Including Earth Tag
<b>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit
<b>NP</b>	Nickel Plated
<b>20</b>	Gland shell size
<b>075NPT</b>	3/4"NPT Male Entry Thread

OPTIONAL ACCESSORIES:

<b>LOCKNUT</b>	Brass (ACBLN) / Stainless Steel (ACSLN)
<b>EARTH TAG</b>	Brass (ACBET) / Stainless Steel (ACSET)
<b>IP WASHERS</b>	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
<b>SERRATED WASHERS</b>	Stainless Steel (ACSSW)
<b>SHROUDS</b>	PVC (ACSPVC) / PCP (ACSPCP) / Silicone LSOH (ACSSIO)

<b>IP RATING:</b>	IP66 & IP68 (100 metres - 7 Days), Type 4X, Oil Resistant II & DTS01:1991
<b>OPERATING TEMP:</b>	-60°C to +135°C (-25°C to +85°C for UL applications)
<b>MATERIALS:</b>	Brass or Stainless Steel
<b>PLATING:</b>	Electroless Nickel
<b>COMPOUND:</b>	Peppers T-1000 Sealing Compound

### CURING TIME:

@ 21°C Conductor termination can be effected after 1 hour.  
The equipment can be energised after 4 hours.

CABLE GLAND SELECTION TABLE  
(ALL DIMENSIONS IN INCHES)

Gland Size	Entry Thread Size		ISO Thread Length [B]	NPT Thread Length [B]	Cable Acceptance Details				Nominal Protusion Length [L]	Dimensions/Weight (NPT Entry Thread Versions)			Shroud Size	
	Metric	NPT			Cable Inner Sheath		Cable Outer Sheath [D]			Across Flats	Across Corners [A]	Weight lbs		
					Number of Cores [C] IEC - NEC	Max O/C Over Cores [C]	Min	Max						
16	M20 x 1.5	1/2" or 3/4"	0.630	0.783 - 0.795	15	1	0.409	0.134	0.331	2.717	1.000	1.102	0.602	EL24
20S	M20 x 1.5	1/2" or 3/4"	0.630	0.783 - 0.795	35	4	0.409	0.189	0.461	2.717	1.000	1.102	0.590	EL24
20	M20 x 1.5	1/2" or 3/4"	0.630	0.783 - 0.795	40	8	0.492	0.374	0.551	2.717	1.180	1.299	0.710	EL30
25	M25 x 1.5	3/4" or 1"	0.630	0.795 - 0.985	60	16	0.701	0.461	0.787	2.953	1.480	1.630	1.120	EL38
32	M32 x 1.5	1" or 1 1/4"	0.630	0.985 - 1.008	80	30	0.925	0.713	1.035	3.425	1.810	1.992	1.797	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	0.630	1.008 - 1.024	130	60	1.134	0.890	1.268	3.543	2.170	2.832	2.577	EL55
50S	M50 x 1.5	2"	0.630	1.059	200	5	1.346	1.110	1.504	3.937	2.560	2.815	3.770	EL65
50	M50 x 1.5	2"	0.630	1.059	400	5	1.551	1.303	1.736	3.937	2.560	2.815	3.263	EL65
63S	M63 x 1.5	2 1/2"	0.748	1.571	400	4	1.764	1.547	1.972	3.937	3.150	3.465	6.190	EL80
63	M63 x 1.5	2 1/2"	0.748	1.571	425	4	1.969	1.839	2.205	3.937	3.150	3.465	5.309	EL80
75S	M75 x 1.5	3"	0.748	1.634	425	4	2.181	2.059	2.441	3.937	3.890	4.280	6.960	EL104
75	M75 x 1.5	3"	0.748	1.634	425	4	2.394	2.283	2.677	3.937	3.890	4.280	6.490	EL104

NOTES

- Gland size does not necessarily equate to the entry thread size.
- UL approval/applications have a reduced core quantity. Consult product installation instructions for specific core data.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- Assembly instructions must be read prior to installation and adhered to in full.
- Peppers supply cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. They usually incorporate a thread run out according to the available machining techniques and will not have a full form thread for the entire length.

Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not been taken into account.

- When selecting IP Washer & Shroud material for use with glands, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
- The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
- All brass entry threads are Nickel Plated as standard.
- Where approval in addition to UL, CSA, ATEX, and IECEX is required, this must be clearly requested at time of enquiry / order.