

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 d : Ex e
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 d, Increased Safety Ex e, 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:

UL	Class I Division 2, Gas Groups ABCD Type 4X
CEC - Canada	Class I Zone 1 Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X
NEC - USA	Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb / AEx ta IIIC Da Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X
ATEX	I M2 II 1D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU
IECEx	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
EAC	Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU
INMETRO - Brazil	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
SAC - China	Ex d IIC / Ex e IIC
UKRAINE	Ex d IIC X / Ex e II X
CCoE - India	Petroleum Rules 2002 (PESO)
ABS	Specified ABS Rules
LLOYD'S	Enclosure Systems (Part 1B)
RMRS	Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014)

CERTIFICATION NO.:

UL	E248936
CEC - Canada	CSA 70004604
NEC - USA	CSA 70004604
ATEX	SIRA 09ATEX1066X & SIRA 09ATEX4124X
IECEx	IECEx SIR 09.0033X
EAC	RU C-GB.17506.B.00098
INMETRO - Brazil	NCC 13.1957 X
SAC - China	NEPSI GYJ16.1403X
UKRAINE	UA.TR.047.C.0408-13 & 2937
CCoE - India	PESO P365300/3 & P365300/10
ABS	14-LD463991A-1-PDA
LLOYD'S	10/00056(E1)
RMRS	14.02755.315

EXAMPLE PART NUMBERING:

UL-UB/NP/20/075NPT

OPTIONAL ACCESSORIES:

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

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

IP RATING:	IP66 & IP68 (100 metres - 7 Days), Type 4X, Oil Resistant II & DTS01:1991
OPERATING TEMP:	-60°C to +135°C (-25°C to +85°C for UL applications)
MATERIALS:	Brass or Stainless Steel
PLATING:	Electroless Nickel
COMPOUND:	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	
					Cable Inner Sheath		Cable Outer Sheath [D]			Across Flats	Across Corners [A]	Weight lbs		
	Number of Cores [C] IEC - NEC	Max Ø 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 ¼"	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 ¼" or 1 ½"	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 ½"	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 ½"	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.