

PRODUCT TYPE UL-X

Single 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	X	B
		S



PRODUCT DESCRIPTION

"UL-X" 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, 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 db & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics. 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 A, B, C, D Type 4X
CEC - Canada	Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class I Zone 1 Ex d IIC Gb / Ex e IIC Gb Class II Zone 21 Ex ta IIIC Da Class III, Enclosure Type 4X
NEC - USA	Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb Class II Zone 21 AEx ta IIIC Da Class III, Enclosure Type 4X
ATEX	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
IECEX	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
EAC	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
INMETRO - Brazil	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
SAC - China	Ex d IIC Gb / Ex e IIC Gb
UKRAINE	I M2 Ex db I Mb / II 2G Ex db IIC Gb / II 2G Ex eb I Mb / II 2G Ex eb IIC Gb II 3G Ex nR IIC Gc / II 1D Ex ta IIIC Da
CCoE - India	Ex d IIC Gb (Zone 1) / Ex e IIC Gb (Zone 2) / Ex nR IIC Gc (Zone 2)
ABS	Specified ABS Rules
LLOYD'S	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
RMRS	Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex ta IIC

CERTIFICATION:

UL	E248936
CEC - Canada	CSA 70004604
NEC - USA	CSA 70004604
ATEX	SIRA 09ATEX1066X & SIRA 09ATEX4124X
IECEX	IECEX SIR 09.0033X
EAC	RU C-GB.BH02.B.00693-18
INMETRO -Brazil	NCC 13.1957 X
SAC - China	NEPSI GYJ16.1403X
UKRAINE	CLJ 18.0324 X
CCoE - India	PESO P365300/3 & P365300/10
ABS	14-LD463991A-1-PDA
LLOYD'S	10/00056(E1)
RMRS	14.02755.315

CURING TIME:

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

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

OPTIONS	UL-X	Gland featuring a Compound (Barrier) Inner Seal with Nickel Plated 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

OPTIONAL
ACCESSORIES:

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

CABLE GLAND SELECTION TABLE
(ALL DIMENSIONS IN inches)

Gland Size	Entry Thread Size		Metric Thread Length [B]	NPT Thread Length [B]	Cable Acceptance Details [C]				Nominal Protrusion Length [L]	Dimensions/Weight (NPT Entry Thread Versions)			Shroud Size (Metric)
	Metric	NPT			Max No. of Cores IEC - NEC	Max Ø Over Cores	Max Outer Sheath [D]	Across Flats [A]		Across Corners	Weight (lbs)		
20S	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	35	4	0.409	0.461	41	1.000	1.102	0.138	L24
20	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	40	8	0.492	0.551	41	1.180	1.299	0.170	L30
25	M25 x 1.5	3/4" or 1"	0.630	0.795 or 0.985	60	16	0.701	0.787	47	1.480	1.630	0.320	L38
32	M32 x 1.5	1" or 1 ¼"	0.630	0.985 or 1.008	80	30	0.925	1.035	58	1.810	1.992	0.612	L46
40	M40 x 1.5	1 ¼" or 1 ½"	0.630	1.008 or 1.024	130	60	1.134	1.268	58	2.170	2.382	0.790	L55
50	M50 x 1.5	2"	0.630	1.059	400	5	1.551	1.736	65	2.560	2.815	0.980	L65
63	M63 x 1.5	2 ½"	0.748	1.571	425	4	1.969	2.205	66	3.150	3.465	1.510	L80
75	M75 x 1.5	3"	0.748	1.634	425	4	2.394	2.677	66	3.890	4.280	1.732	L104

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 products 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.