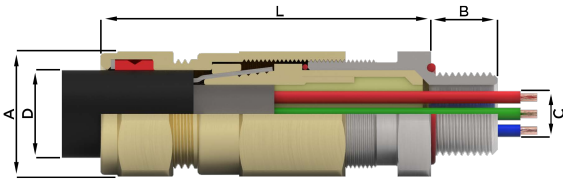




PRODUCT TYPE UL-C

Double Seal Barrier Gland designed for use with Armoured Cable featuring Peppers CROCKLOCK® & T-1000 Compound

Class I Div 1 : Class II Div 1 : Class III Type 4X : Ex db : Ex eb : Ex nR : Ex ta : AEx D : AEx e : AEx ta



REFERENCE NUMBER: 4.5.0

EXAMPLE PART NUMBERING:
UL-CB/NP/20/M20

UL-C	Gland featuring "CROCKLOCK®", single orientation clamping, Compound (Barrier) Inner Seal & Silicone Elastomeric Outer Seal with Nickel Plated Entry Thread
B	Brass (B) / Stainless Steel (S)
R	Reduced Bore Seal Outer Sheath Seal
C	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH Shroud (3)
K-V-H	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
S	Including Serrated Washer
1	Quantity per kit
NP	Nickel Plated
20	Gland shell size
M20	M20 x 1.5 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
ELASTOMERIC SEAL:	Silicone LSOH

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		Metric Thread Length [B]	NPT Thread Length [B]	Cable Acceptance Details				Armour Acceptance Range	Nominal Protrusion Length [L]	Dimensions/Weight (NPT Entry Thread Versions)			Shroud Size				
	Metric	NPT			Internal Cable Details		Cable Outer Sheath Seal [D]				Across Flats [A]	Across Corners	Weight (lbs)					
					Max No. of Cores [C] IEC - NEC	Max Ø Over Cores [C]	Max Inner Sheath	Standard							Reduced			
16	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	15	1	0.409	0.461	0.362	0.531	0.264	0.406	0.006-0.049	3.228	1.000	1.102	0.589	EL24
20S	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	35	4	0.409	0.461	0.453	0.630	0.370	0.492	0.006-0.049	3.228	1.000	1.102	0.606	EL24
20	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	40	8	0.492	0.551	0.610	0.831	0.563	0.693	0.006-0.049	3.268	1.180	1.299	0.721	EL30
25	M25 x 1.5	3/4" or 1"	0.630	0.795 or 0.985	60	16	0.701	0.787	0.799	1.079	0.689	0.941	0.006-0.063	3.661	1.480	1.630	1.290	EL38
32	M32 x 1.5	1" or 1 1/4"	0.630	0.985 or 1.008	80	30	0.925	1.035	1.051	1.339	0.984	1.201	0.006-0.079	4.331	1.810	1.992	2.083	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	0.630	1.008 or 1.024	130	60	1.134	1.268	1.299	1.598	1.154	1.425	0.008-0.079	4.528	2.170	2.382	2.900	EL55
50S	M50 x 1.5	2"	0.630	1.059	200	5	1.374	1.736	1.551	1.839	1.499	1.669	0.008-0.098	4.921	2.560	2.815	4.800	EL65
50	M50 x 1.5	2"	0.630	1.059	400	5	1.551	1.736	1.799	2.099	1.618	1.909	0.008-0.098	4.921	2.560	2.815	4.200	EL65
63S	M63 x 1.5	2 1/2"	0.748	1.571	400	4	1.764	2.205	2.051	2.343	1.846	2.157	0.012-0.098	4.921	3.150	3.465	7.740	EL80
63	M63 x 1.5	2 1/2"	0.748	1.571	425	4	1.969	2.205	2.299	2.591	2.118	2.409	0.012-0.098	4.921	3.150	3.465	6.810	EL80
75S	M75 x 1.5	3"	0.748	1.634	425	4	2.181	2.677	2.551	2.843	2.469	2.677	0.012-0.098	5.315	3.890	4.280	9.150	EL104
75	M75 x 1.5	3"	0.748	1.634	425	4	2.394	2.677	2.799	3.071	2.618	2.890	0.012-0.098	5.315	3.890	4.280	8.040	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.
- Metric versions are supplied with an IP O-ring.
- 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.

PART NUMBERS:

UL	C	B	*
	S	R	



PRODUCT DESCRIPTION

"UL-C" type glands, certified Explosion Proof Class I Div 1, Gas Groups ABCD, Flameproof Ex db, Increased Safety Ex eb, Restricted Breathing Ex nR & dust protected Ex ta 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 Armoured, Jacketed or Non Jacketed cable. The unique features include "CROCKLOCK®", the non reversible multi-clamping system for wire, braid and tape armoured cables and 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, UL14203, UL2225, UL50E, ANSI/UL 60079-1/1/7, ISA 60079-31
C22.2 No. 0/25/30/94.1/94.2/174 & CAN/CSA C22.2 60079-0/177/31
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 1 / Division 2, Gas Groups A,B,C,D Type 4X
CEC - Canada	Class I Division 1, Groups A, B, C & D 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 / Ex ta IIIC Da Class II Zone 21 Ex ta IIIC Da
NEC - USA	Class I Division 1, Groups A, B, C & D 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
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 ta IIIC Da / Ex nR IIC Gc
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 ta IIIC Da / Ex nR IIC Gc
SAC - China	Ex d IIC Gb / Ex e IIC Gb
UKRAINE	Ex d IIC X / Ex e II X
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 IIIC / Ex tb IIC

CERTIFICATION No:

UL	E248936
CEC - Canada	CSA 70004604
NEC - USA	CSA 70004604
ATEX	SIRA 09ATEX1066X & SIRA 09ATEX4124X
IECEX	IECEX SIR 09.0033X
EAC	TC RU C-GB.BH02.B.00693-18
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

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