

Double Seal Barrier Gland for Armoured Cable featuring Peppers MAC™ and Peppers T2000 or T1000 Compound

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : IP69



PRODUCT TYPE EC* C



PRODUCT DESCRIPTION

"EC*-C" type glands are certified Flameproof Ex db, Increased Safety Ex eb, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Group I Mining, Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dusts Groups IIIA, IIIB and 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 and an environmental seal on the outer sheath. The unique features include, Peppers multi-armour clamping system for wire, braid and tape armoured cables and Peppers T1000 or T2000 compound that enables a quick and easy installation. An innovative barrier chamber that allows for a full inspection of the compound fill. The gland maintains IP66, IP68 to 100 metres and IP 69. Is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads and options are available for use with lead sheath cables.

COMPLIANCE STANDARDS:

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529

CERTIFICATION:

UKEX	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
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 db I Mb / 1Ex db IIC Gb X / PB Ex eb I Mb X / 1Ex eb IIC Gb X / 2Ex nR IIC Gc X Ex ta IIIC Da X
CCC - China	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
CCoE - India	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
ABS	Specified ABS Rule
LLOYD'S	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
DNV	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da

CERTIFICATION No:

UKEX	CML 21UKEX1036X & CML 21UKEX4037X
ATEX	CML 19ATEX1113X & CML 19ATEX4114X
IECEX	IECEX CML 19.0035X
EAC	RU C-GB.AXK58.B.051063/24
CCC - China	2021312313000446
CCoE - India	PESO P494321/17 & P494321/20
ABS	20-LD1944057-PDA
LLOYD'S	LR2124442TA
DNV	TAE00004XK

CABLE GLAND SELECTION TABLE
(ALL DIMENSIONS IN mm)

Gland size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details							Armour Acceptance Range		Nominal Protrusion Length [L]	Dimensions/Weight (Metric)			Shroud Size* (Metric)		
	Metric	NPT		Internal Cable Details				Outer Sheath [D]		Reduced [D]		Orientation 1		Orientation 2	Across Flats [A]	Across Corners		Weight (Kgs)	
				Max Number of Cores [C]	Max Ø Over Cores [C]	Min Inner Sheath [T2000]	Max Inner Sheath	Min	Max	Min	Max								
16S	M16 x 1.5	3/8"	16	12	12	8.9	4.0	10.0	8.4	13.5	6.7	10.3	0.80-1.25	0.20-0.80	66	25.4	28.0	0.143	L24
16	M20 x 1.5	1/2" or 3/4"	16	15	15	10.4	4.0	11.7	8.4	13.5	6.7	10.3	0.80-1.25	0.20-0.80	66	25.4	28.0	0.147	L24**
20S	M20 x 1.5	1/2" or 3/4"	16	35	15	10.4	4.0	11.7	11.5	16.0	9.4	12.5	0.80-1.25	0.20-0.80	66	25.4	28.0	0.147	L24**
20	M20 x 1.5	1/2" or 3/4"	16	40	20	12.5	4.0	14.0	15.5	21.1	12.0	17.6	0.80-1.25	0.20-0.80	69	30.0	33.0	0.219	L30
25	M25 x 1.5	3/4" or 1"	16	60	30	16.5	8.0	18.5	20.3	27.4	16.8	23.9	1.25-1.60	0.20-0.80	74	37.6	41.4	0.322	L38
32	M32 x 1.5	1" or 1 1/4"	16	80	50	23.5	14.0	26.3	26.7	34.0	23.2	30.5	1.60-2.00	0.30-1.20	87	46.0	50.6	0.578	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	130	65	28.8	16.0	32.2	33.0	40.6	28.6	36.2	1.60-2.00	0.30-1.20	90	55.0	60.5	0.832	L55
50S	M50 x 1.5	1 1/2" or 2"	16	200	100	34.2	20.0	38.2	39.4	46.7	34.8	42.4	2.00-2.50	0.30-1.60	97	65.0	71.5	1.103	L65
50	M50 x 1.5	2"	16	400	100	39.4	20.0	44.1	45.7	53.2	41.1	48.5	2.00-2.50	0.30-1.60	98	65.0	71.5	1.000	L65
63S	M63 x 1.5	2" or 2 1/2"	19	400	130	44.8	30.0	50.1	52.1	59.5	47.5	54.8	2.00-2.50	0.30-1.60	97	80.0	88.0	1.613	L86
63	M63 x 1.5	2 1/2"	19	425	130	50.0	30.0	56.0	58.4	65.8	53.8	61.2	2.00-2.50	0.30-1.60	97	80.0	88.0	1.475	L86
75S**	M75 x 1.5	2 1/2" or 3"	19	425	-	55.4	-	62.0	64.8	72.2	60.2	68.0	2.00-2.50	0.50-1.60	101	90.0	99.0	1.764	L99
75**	M75 x 1.5	3"	19	425	-	60.8	-	68.0	71.1	78.0	66.5	73.4	2.00-2.50	0.50-1.60	101	90.0	99.0	1.682	L99
80**	M80 x 2.0	3" or 3 1/2"	25	425	-	64.4	-	72.0	77.0	84.0	71.9	79.4	3.15-4.00	0.50-1.60	127	104.7	115.2	3.452	L104
85**	M85 x 2.0	3" or 3 1/2"	25	425	-	69.8	-	78.0	79.6	90.0	75.0	85.4	3.15-4.00	0.50-1.60	127	104.7	115.2	2.936	L104
90**	M90 x 2.0	3 1/2" or 4"	25	425	-	75.1	-	84.0	88.0	96.0	82.0	91.4	3.15-4.00	0.50-1.60	126	114.3	125.7	3.722	L114
100**	M100 x 2.0	3 1/2" or 4"	25	425	-	80.5	-	90.0	92.0	102.0	87.4	97.4	3.15-4.00	0.50-1.60	128	114.3	125.7	3.097	L114

NOTES

- Gland size does not necessarily equate to the entry thread size.
- The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads
- 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 supplies cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. We usually incorporate a thread run out according to general machining techniques and parts will not have a full form thread for the entire length. Peppers Cable Glands Limited will not be held responsible

EXAMPLE PART NUMBERING:
EC2-CB/NP/20/M20

EC	Eclipse style barrier gland for use with Peppers T1000 or T2000 compound
2	Peppers T1000 (1) - Peppers T2000 (2)
C	Gland featuring Peppers multi-armour clamping system, Compound (Barrier) Inner Seal & Silicone Elastomeric Outer Seal
2	For use with Lead Sheath Cables
B	Brass (B) / Stainless Steel (S)
R	Reduced Bore Seal
C	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone 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 (L)	Brass (ACBLN) / Stainless Steel (ACSLN)
EARTH TAG (T)	Brass (ACBET) / Stainless Steel (ACSET)
IP WASHERS	Nylon (N) / Fibre (J) / PTFE (Z)
SERRATED WASHERS	Stainless Steel (S)
SHROUDS	PVC (C) / PCP (P) / LSOH Silicone (3)
IP RATING:	IP66 & IP68 (100 metres - 7 days) & IP69
OPERATING TEMP:	T1000: -60°C to +135°C T2000: -60°C to +120°C
MATERIALS:	Brass or Stainless Steel
PLATING:	Electroless Nickel
COMPOUND:	Peppers T-1000 Compound / Peppers T-2000 Compound
OUTERSEAL:	Silicone LSOH

- 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 compound, gloves and instructions to allow one complete termination
- Where approval in addition to UKEX, ATEX and IECEx is required, this must be clearly requested at time of enquiry / order.
- Size 75S and above only available with T1000 Compound.
- ** For gland sizes 16 and 20S when used with 3/4" NPT entry thread an L30 shroud would be required