

PRODUCT TYPE EC*S*C

Single Seal Barrier Gland featuring Peppers T2000 or T1000 Compound with Rotating Flexible Metallic Conduit Connector
Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : IP69



PRODUCT DESCRIPTION

"EC*-S*C" type glands, used in any orientation, 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. Commonly referred to as a "Conduit Stopper Box" they are suitable for use with conductors carried in conduit or as a line bushing for terminating flying leads. They provide a compound barrier Ex db & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics. The unique features include, 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. The gland is supplied with a rotating flexible conduit connection.

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 IIC 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 IIC 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 IIC Da
EAC	PB Ex db I Mb X / 1Ex db IIC Gb X / PB Ex eb I Mb x / 1Ex eb IIC Gb X / 2Ex nR IIC Gc X Ex ta IIC 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 IIC 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 IIC Da
ECAS-Ex	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC 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 IIC Da
DNV	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da

CERTIFICATION No:

UKEX	CML 21UKEX1036X & CML 21UKEX4037X
ATEX	CML 19ATEX1113X & CML 19ATEX4114X
IECEX	IECEX CML 19.0035X
EAC	RU C-GB.AX58.B.05106/24
CCC - China	2022312313000471
CCoE - India	PESO P494321/17 & P494321/20
ECAS-Ex	25-06-153223/E25-06-159811/NB0007
ABS	25-0158110-PDA
LLOYD'S	LR2124442TA
DNV	TAE00004XK

EXAMPLE PART NUMBERING: EC2-SBC/NP/20-1/M20

EC	Eclipse style barrier gland for use with Peppers T1000 or T2000 compound
2	Peppers T1000 (1) - Peppers T2000 (2)
S	Gland featuring a compound (Barrier) Inner Seal for use with conduit
B	Brass (B) / Stainless Steel (S)
C	Metallic Flexible Conduit connector
OPTIONS	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
20-1	Gland & Connector 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)

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

CABLE GLAND SELECTION TABLE (ALL DIMENSIONS IN mm)

Gland & Connector Size	Entry Thread Size		Metric Thread Length [B]	Cable Sheath & Cores					Typical Conduit Diameter		Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Number of Cores [C] [T1000]	Number of Cores [C] [T2000]	Max Ø Over Cores [C]	Min Inner Sheath [T2000]	Max Outer Sheath [D]	I/D	Max O/D		Across Flats [A]	Across Corners	Weight (Kgs)
16S-1	M16 x 1.5	3/8"	16	12	12	5.4	4.0	5.4	6.8	10.3	62	25.4	28.0	0.132
16S-2	M16 x 1.5	3/8"	16	12	12	6.0	4.0	6.0	7.7	13.0	62	25.4	28.0	0.130
16S-3	M16 x 1.5	3/8"	16	12	12	7.2	4.0	7.2	9.1	14.3	62	25.4	28.0	0.130
16S-4	M16 x 1.5	3/8"	16	12	12	8.4	4.0	8.4	10.2	14.1	62	25.4	28.0	0.128
16S-5	M16 x 1.5	3/8"	16	12	12	8.4	4.0	8.4	10.9	15.8	62	25.4	28.0	0.133
16S-6	M16 x 1.5	3/8"	16	12	12	8.4	4.0	8.4	13.0	17.1	62	25.4	28.0	0.135
16S-7	M16 x 1.5	3/8"	16	12	12	8.9	4.0	11.0	13.0	17.1	62	25.4	28.0	0.122
16S-8	M16 x 1.5	3/8"	16	12	12	8.9	4.0	11.7	13.9	19.3	62	25.4	28.0	0.118
16S-9	M16 x 1.5	3/8"	16	12	12	8.9	4.0	11.7	14.6	20.7	62	25.4	28.0	0.128
20-1	M20 x 1.5	1/2" or 3/4"	16	40	20	12.5	4.0	13.0	13.9	19.3	65	30.0	33.0	0.176
20-2	M20 x 1.5	1/2" or 3/4"	16	40	20	12.5	4.0	14.0	16.9	22.3	65	30.0	33.0	0.172
20-3	M20 x 1.5	1/2" or 3/4"	16	40	20	12.5	4.0	14.0	16.9	23.8	65	30.0	33.0	0.181
20-4	M20 x 1.5	1/2" or 3/4"	16	40	20	12.5	4.0	14.0	18.7	24.8	65	30.0	33.0	0.195
20-5	M20 x 1.5	1/2" or 3/4"	16	40	20	12.5	4.0	14.0	20.7	28.3	65	30.0	33.0	0.214
25-1	M25 x 1.5	3/4" or 1"	16	60	30	16.5	8.0	18.5	20.7	28.3	70	37.6	41.4	0.269
25-2	M25 x 1.5	3/4" or 1"	16	60	30	16.5	8.0	18.5	21.1	26.8	64	37.6	41.4	0.261
25-3	M25 x 1.5	3/4" or 1"	16	60	30	16.5	8.0	18.5	23.7	31.3	70	37.6	41.4	0.304
25-4	M25 x 1.5	3/4" or 1"	16	60	30	16.5	8.0	18.5	25.0	31.3	70	37.6	41.4	0.297
32-1	M32 x 1.5	1" or 1 1/4"	16	80	50	23.5	14.0	26.3	28.1	33.3	79	46.0	50.6	0.409
32-2	M32 x 1.5	1" or 1 1/4"	16	80	50	23.5	14.0	26.3	30.4	40.8	79	46.0	50.6	0.458
32-3	M32 x 1.5	1" or 1 1/4"	16	80	50	23.5	14.0	26.3	30.4	38.8	79	46.0	50.6	0.478
40-1	M40 x 1.5	1 1/4" or 1 1/2"	16	130	65	28.8	16.0	32.2	36.4	46.8	80	55.0	60.5	0.585
40-2	M40 x 1.5	1 1/4" or 1 1/2"	16	130	65	28.8	16.0	32.2	36.4	44.8	80	55.0	60.5	0.553
40-3	M40 x 1.5	1 1/4" or 1 1/2"	16	130	65	28.8	16.0	32.2	37.6	45.3	80	55.0	60.5	0.566
50-1	M50 x 1.5	2"	16	400	100	39.4	20.0	44.1	48.4	55.8	83	65.0	71.5	0.665
63-1	M63 x 1.5	2 1/2"	19	425	130	50.0	30.0	56.0	57.5	64.8	84	80.0	88.0	1.030

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.
- Sizes 16S-1 through 16S-6 max Ø over cores and max outer sheaths are determined by the connector component bore size.
- 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 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.