

# Peppers Cable Glands Limited

Stanhope Road, Camberley, Surrey, GU15 3BT United Kingdom  
 Telephone: +44 (0) 1276 64232 • Facsimile: +44 (0) 1276 691752  
 Email: sales@peppers.co.uk • Website: www.cableglands.com



## Cable Gland Type E - (Double Compression for Armoured Cables)

Ex d : Ex e : Ex nR : Ex tD A21 : IP66 : IP68

Part Numbers:

<b>E</b>	<b>1</b>	<b>W</b>	<b>B</b>	<b>*</b>	<b>F</b>	<b>*</b>
	<b>2</b>	<b>X</b>	<b>S</b>	<b>IE</b>		<b>R</b>
	<b>3</b>	<b>Z</b>				
	<b>4</b>					



"E" type double compression glands, certified Flameproof Ex d, Increased Safety Ex e & Restricted Breathing Ex nR are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC. They provide a controlled Ex d & IP seal on the cable inner sheath, an environmental seal on the outer sheath and a detachable armour specific clamping system for wire (W), braid (X) or tape (Z) armoured cables. The gland has been tested to IP66 and IP68 to 35 metres and is available with an IP O-ring seal on metric entry threads. The "IE" version allows the gland to be used with HV cables where the fault load is greater than 10.4kA and options are available for use with lead sheath, LSOH cables and extreme temperature applications.

**Compliance Standard:** EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 61241-0, EN 61241-1 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1 & IEC 60529

**Certification:** ATEX II 2 GD Ex d IIC / Ex e II / Ex tD A21 II 3 GD Ex nR II  
 IECEx Ex d IIC / Ex e II / Ex tD A21  
 GOST-R Ex d IICU / Ex e IIU  
 CSA Ex d IIC / Ex e II Class I Zone 1 Class I Division 2, Groups A, B, C & D Class II Division 2, Groups E, F & G Class III, Enclosure Types 3, 4 & 4X  
 NEPSI Ex d IIC / Ex e II  
 INMETRO BR - Ex d IIC / Ex e II / Ex nR II / Ex tD A21  
 ABS 1-1-4/7.7, 4.8-3/1.7, 4-8-3/13 and 4-8-4/27.5 MODU Rules 4-3-3/9  
 LLOYD'S Enclosure Systems (Part 1B)  
 RMRS Part XI of Rules for sea-going ships (ed.2008)

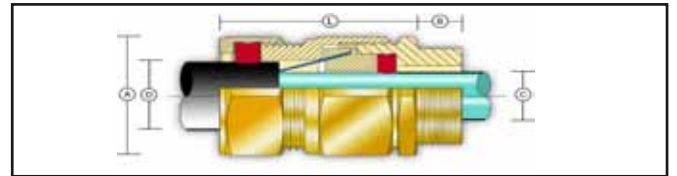
**Certificate No.** ATEX SIRA 01ATEX1271X & SIRA 09ATEX1221X  
 IECEx SIR 07.0097X  
 GOST-R POCC GB.FB06.B00853  
 CSA CSA 1356011  
 NEPSI GYJ06187X  
 INMETRO NCC 5878/09 X  
 ABS 09-LD463991-PDA  
 LLOYD'S 10/00056  
 RMRS 09.00784.011

**IP Rating:** IP66 & IP68 (35 metres - 7 days), NEMA 4X

**Operating Temperature:** Neoprene Seals -20°C to +85°C  
 Silicone Seals -60°C to +180°C

**Materials:** Brass or Stainless Steel

**Plating:** Nickel - Zinc



**Example Part Numbering**  
 (See below for details)

E1WBFC1/NP/20/050NPT

<b>E</b>	Type of gland featuring armour specific clamping	
<b>1</b>	Neoprene Seals (1) - Silicone (3) - Neoprene/Lead (2) - Silicone/Lead (4)	
<b>W</b>	SWA (W) / SWB (X) or STA (Z)	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>IE</b>	Integral Earth (see page TR-3)	
<b>F</b>	Multiple Certification	
<b>R</b>	Reduced Bore Seal	
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - LSOH Shroud (3)	
<b>K or V</b>	Locknut, Earth Tag & Nylon (K) or Fibre (V) IP Washer	
<b>S</b>	Including Serrated Washer	
<b>1</b>	Quantity per kit	
<b>NP</b>	Nickel Plated (NP) - Zinc Plated (ZP)	
<b>20</b>	Gland shell size	
<b>050NPT</b>	1/2"NPT Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW)
	Serrated Washer	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / LSOH (ACSSIO)
<b>Variations:</b>	D***F Omission of Outer Seal	

CABLE GLAND SELECTION TABLE																
Gland Size	Entry Thread Size		ISO Thread Length [B]	Cable Acceptance Details						Armour Acceptance Range		Max Protrusion Length	Dimensions/Weight (Metric)			Shroud Size
				Inner Sheath [C]		Outer Sheath [D]		Reduced [D]					Across Flats	Across Corners [A]	Weight Kgs	
	Metric	NPT		Min	Max	Min	Max	Min	Max	W	XZ					
16	M20 x 1.5	1/2" or 3/4"	16	4.0	8.4	8.4	13.5	4.9	10.3	0.9	0.15-0.35	58	24.0	26.5	0.154	L24
20S	M20 x 1.5	1/2" or 3/4"	16	8.0	11.7	12.9	16.0	9.4	12.5	0.90-1.25	0.15-0.35	58	24.0	26.5	0.125	L24
20	M20 x 1.5	1/2" or 3/4"	16	6.7	14.0	15.5	21.1	12.0	17.6	0.90-1.25	0.15-0.50	58	30.0	33.0	0.180	L30
25	M25 x 1.5	3/4" or 1"	16	13.0	20.0	20.3	27.4	16.8	23.9	1.25-1.60	0.15-0.50	58	38.0	41.4	0.256	L38
32	M32 x 1.5	1" or 1 1/4"	16	19.0	26.3	26.7	34.0	23.2	30.5	1.60-2.00	0.15-0.55	65	46.0	50.6	0.400	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	25.0	32.2	33.0	40.6	28.6	36.2	1.60-2.00	0.20-0.60	72	55.0	60.5	0.649	L55
50S	M50 x 1.5	1 1/2" or 2"	16	31.5	38.2	39.4	46.7	34.8	42.4	2.00-2.50	0.20-0.60	73	65.0	71.5	0.940	L65
50	M50 x 1.5	2"	16	36.5	44.1	45.7	53.2	41.1	48.5	2.00-2.50	0.30-0.80	73	65.0	71.5	0.707	L65
63S	M63 x 1.5	2" or 2 1/2"	19	42.5	50.1	52.1	59.5	47.5	54.8	2.5	0.30-0.80	76	80.0	88.0	1.369	L80
63	M63 x 1.5	2 1/2"	19	49.5	56.0	58.4	65.8	53.8	61.2	2.5	0.30-0.80	76	80.0	88.0	1.123	L80
75S	M75 x 1.5	2 1/2" or 3"	19	54.5	62.0	64.8	72.2	60.2	68.0	2.5	0.30-1.00	82	90.0	99.0	1.660	L90
75	M75 x 1.5	3"	19	60.5	68.0	71.1	78.0	66.5	73.4	2.5	0.30-1.00	82	90.0	99.0	1.310	L90
80	M80 x 2	3" or 3 1/2"	25	62.2	72.0	77.0	84.0	71.9	79.4	3.15	0.45-1.00	110	104.0	115.2	2.718	L104
80H	M80 x 2	3" or 3 1/2"	25	62.2	72.0	79.6	90.0	75.0	85.4	3.15	0.45-1.00	110	104.0	115.2	2.718	L104
85	M85 x 2	3" or 3 1/2"	25	69.0	78.0	79.6	90.0	75.0	85.4	3.15	0.45-1.00	110	104.0	115.2	2.326	L104
90	M90 x 2	3 1/2" or 4"	25	74.0	84.0	88.0	96.0	82.0	91.4	3.15	0.45-1.00	110	114.0	125.7	2.852	L114
90H	M90 x 2	3 1/2" or 4"	25	74.0	84.0	92.0	102.0	87.4	97.4	3.15	0.45-1.00	110	114.0	125.7	2.852	L114
100	M100 x 2	3 1/2" or 4"	25	82.0	90.0	92.0	102.0	87.4	97.4	3.15	0.45-1.00	110	114.0	125.7	2.496	L114

All dimensions in mm

**Notes:**

- \* Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- \* The IP O-ring seal option 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.
- \* Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- \* The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- \* 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. 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 will not be held responsible for clients' installations where this has not been taken into account.
- \* To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- \* For gland size 20 the silicone inner seal has a minimum diameter of 11.0mm and NOT 6.7mm
- \* All gland kits supplied with silicone seals will include a PTFE IP washer in order to maintain the temperature range.