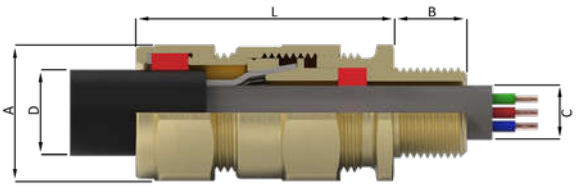
PRODUCT TYPE E

Double Compression Gland for Armoured Cable featuring Dedicated Armour Clamping

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 Class I Div 2 : AEx e : AEx ta



PART NUMBERS:

E	1	W	B	*	F	*
	2	X	S	IE		R
	3		A			
	4					

EXAMPLE PART NUMBERING: EIWBF/NP/20/050NPT

	E	Gland featuring armour specific clamping
	1	Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4)
	W	SWA (W) / SWB or STA (X)
	B	Aluminium (A) / Brass (B) / Stainless Steel (S)
	IE	Integral Earth (see page 43)
	F	Multiple Certification
	R	Reduced Bore Seal
OPTIONS	**C**	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
OPTIONS	**K-V-H**	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
OPTIONS	**S**	Including Serrated Washer
OPTIONS	**1**	Quantity per kit
OPTIONS	**NP**	Nickel Plated
	20	Gland shell size
	050NPT	1/2"NPT Male Entry Thread

OPTIONAL ACCESSORIES:

LOCKNUT	Brass (ACBLN) / Stainless Steel (ACSLN) / Aluminium (ACALN)
EARTH TAG	Brass (ACBET) / Stainless Steel (ACSET) / Aluminium (ACAET)
IP WASHERS	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
SERRATED WASHERS	Stainless Steel (ACSSW)
SHROUDS	PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)

IP RATING:	IP66 & IP68 (50 metres - 7 days), Type 4X
OPERATING TEMP:	Neoprene Seals -35°C to +90°C
	Silicone Seals -60°C to +180°C
MATERIALS:	Aluminium, Brass or Stainless Steel
PLATING:	Electroless Nickel

PRODUCT DESCRIPTION

"E" type double compression 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 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. Also certified for Zone and Division installations for use with Marine Shipboard and Tray Cables under the NEC and CEC. They provide a controlled Ex db & 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/tape (X) armoured cables. The gland has been tested to IP66 and IP68 to 50 metres. The Integral Earth "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 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 60079-31 & IEC 60529
C22.2 (see certificate), CAN/CSA 60079-0/1/7
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

CERTIFICATION:

ATEX	II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
	II 3G Ex nR IIC Gc
IECEx	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
CEC - Canada	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 / Ex e II
NEC - USA	Class II Division 1, Groups E, F & G
	Class III, Enclosure Type 4X
	Class I Zone 1 AEx e IIC Gb
	Class II Zone 20 AEx ta IIIC Da
EAC	1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X
INMETRO - Brazil	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
SAC - China	Ex d IIC Gb / Ex e IIC Gb
UKRAINE	II 2G Ex db IIC Gb / 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 Rule
LLOYD'S	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
RS - Russia	Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex ta IIIC

CERTIFICATION No:

ATEX	CML 19ATE1106X & CML 19ATEX4109X
IECEx	IECEx CML 19.0031X
CEC - Canada	CSA 1356011
NEC - USA	CSA 2627370
EAC	RU C-GB.BH02.B.00693-18
INMETRO - Brazil	NCC 13.2186 X
SAC - China	NEPSI GYJ16.1400X
UKRAINE	СЦ 18.0323 X
CCoE - India	PESO P365300/2 & P365300/13
ABS	20-LD1944057-PDA
LLOYD'S	LR2124442TA
RS - Russia	19.00189.278

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)
				Inner Sheath [C]		Outer Sheath [D]		Reduced [D]								
	Metric	NPT		Min	Max	Min	Max	Min	Max	W	X		Across Flats [A]	Across Corners	Weight (Kgs)	
16	M16 x 1.5	1/2" or 3/4"	16	3.5	8.4	8.4	13.5	4.9	10.0	0.90	0.15-0.35	58	24.0	26.5	0.143	L24**
16	M20 x 1.5	1/2" or 3/4"	16	3.5	8.4	8.4	13.5	4.9	10.0	0.90	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	11.5	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	37.6	41.4	0.256	L38
32	M32 x 1.5	1" or 1 ¼"	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 ¼" or 1 ½"	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 ½" 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
50H	M50 x 1.5	1 ½" or 2"	16	31.5	38.2	45.7	53.2	41.1	48.5	2.00-2.50	0.30-0.80	73	65.0	71.5	0.849	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 ½"	19	42.5	50.1	52.1	59.5	47.5	54.8	2.50	0.30-0.80	76	80.0	88.0	1.369	L80
63H	M63 x 1.5	2" or 2 ½"	19	42.5	50.1	58.4	65.8	53.8	61.2	2.50	0.30-0.80	76	80.0	88.0	1.306	L80
63	M63 x 1.5	2 ½"	19	49.5	56.0	58.4	65.8	53.8	61.2	2.50	0.30-0.80	76	80.0	88.0	1.123	L80
75S	M75 x 1.5	2 ½" or 3"	19	54.5	62.0	64.8	72.2	60.2	68.0	2.50	0.30-1.00	82	90.0	99.0	1.661	L90
75H	M75 x 1.5	2 ½" or 3"	19	54.5	62.0	71.1	78.0	66.5	73.4	2.50	0.30-1.00	82	90.0	99.0	1.553	L90
75	M75 x 1.5	3"	19	60.5	68.0	71.1	78.0	66.5	73.4	2.50	0.30-1.00	82	90.0	99.0	1.310	L90
80	M80 x 2.0	3" or 3 ½"	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 2.0	3" or 3 ½"	25	62.2	72.0	79.6	90.0	75.0	85.4	3.15	0.45-1.00	110	104.0	115.2	2.489	L104
85	M85 x 2.0	3" or 3 ½"	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 2.0	3 ½" 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 2.0	3 ½" 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	2.629	L114
100	M100 x 2.0	3 ½" 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

NOTES

- Gland size does not necessarily equate to the entry thread size.
- 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. 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.
- Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.

* For gland size 20 the silicone inner seal has a minimum diameter of 9.3 mm and NOT 6.7mm
** For gland sizes 16 and 20S when used with 3/4" NPT entry thread an L30 shroud would be required