

PRODUCT TYPE D

Single Compression Gland for Armoured Cable featuring Dedicated Armour Clamping

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 Class I Zone 1 : AEx eb : AEx ta



PRODUCT DESCRIPTION

"D" type single 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 Dust 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 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 "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
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

CERTIFICATION:

UKEX	II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
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	Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da Class II Group E, F & G Class III Type 4X
NEC - USA	Class I Zone 1 AEx eb IIC Gb / Zone 20 AEx ta IIIC Da Class II Group E, F & G Class III Type 4X
EAC	1Ex db IIC Gb X / 1Ex eb 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
CCC - China	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
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 db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
ECAS-Ex - U.A.E	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da Specified ABS Rule
ABS	Specified ABS Rule
LLOYD'S	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
DNV	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da

CERTIFICATION No.:

UKEX	CML 21UKEX1035X & CML 21UKEX4043X
ATEX	CML 19ATEX1106X & CML 19ATEX4109X
IECEX	IECEX CML 19.0031X
CEC - Canada	CSA 1356011
NEC - USA	CSA 1356011
EAC	RU C-GB.AX58.B.05106/24
INMETRO - Brazil	NCC 13.2186 X
CCC - China	2021312313000406
UKRAINE	CLJ 18.0323 X
CCoE - India	PESO P494321/4 & P494321/3
ECAS-Ex - U.A.E	25-06-153223/E25-06-159811/NB0007
ABS	25-0158110-PDA
LLOYD'S	LR25189453TA
DNV	TAE00004XK

EXAMPLE PART NUMBERING: DIWBF/NP/20/OSONPT

D	Gland featuring armour specific clamping
1	Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4)
W	SWA or AWA (W) / SWB or STA (X)
B	Aluminium (A) / Brass (B) / Stainless Steel (S)
IE	Integral Earth (see page 82)
F	Multiple Certification
C	PVC Shroud (C) - 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
OSONPT	1/2"NPT Male Entry Thread

OPTIONAL ACCESSORIES:

LOCKNUT (L)	Brass (ACBLN) / Stainless Steel (ACSLN) / Aluminium (ACALN)
EARTH TAG (T)	Brass (ACBET) / Stainless Steel (ACSET) / Aluminium (ACAET)
IP WASHERS	Nylon (N) / Fibre (J) / PTFE (Z)
SERRATED WASHERS	Stainless Steel (S)
SHROUDS	PVC (C) / LSOH Silicone (3)

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

CABLE GLAND SELECTION TABLE (CALL 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		Inner Sheath [C]		Outer Sheath [D]	W	X		Across Flats [A]	Across Corners	Weight (Kgs)	
				Min	Max	Max							
16	M16 x 1.5	1/2" or 3/4"	16	3.5	8.4	13.5	0.90	0.15-0.35	57	24.0	26.5	0.128	L24**
16	M20 x 1.5	1/2" or 3/4"	16	3.5	8.4	13.5	0.90	0.15-0.35	59	24.0	26.5	0.139	L24**
20S	M20 x 1.5	1/2" or 3/4"	16	8.0	11.7	16.0	0.90-1.25	0.15-0.35	56	24.0	26.5	0.116	L24**
20	M20 x 1.5	1/2" or 3/4"	16	6.7*	14.0	21.0	0.90-1.25	0.15-0.50	56	30.0	33.0	0.158	L30
25	M25 x 1.5	3/4" or 1"	16	13.0	20.0	27.5	1.25-1.60	0.15-0.50	56	38.0	41.4	0.237	L38
32	M32 x 1.5	1" or 1 1/4"	16	19.0	26.3	34.0	1.60-2.00	0.15-0.55	63	46.0	50.6	0.344	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	25.0	32.2	40.0	1.60-2.00	0.20-0.60	69	55.0	60.5	0.567	L55
50S	M50 x 1.5	1 1/2" or 2"	16	31.5	38.2	53.0	2.00-2.50	0.20-0.60	71	65.0	71.5	0.776	L65
50	M50 x 1.5	2"	16	36.5	44.1	53.0	2.00-2.50	0.30-0.80	71	65.0	71.5	0.634	L65
63S	M63 x 1.5	2" or 2 1/2"	19	42.5	50.1	65.5	2.50	0.30-0.80	71	80.0	88.0	1.186	L80
63	M63 x 1.5	2 1/2"	19	49.5	56.0	65.5	2.50	0.30-0.80	71	80.0	88.0	1.003	L80
75S	M75 x 1.5	2 1/2" or 3"	19	54.5	62.0	78.5	2.50	0.30-1.00	79	90.0	99.0	1.408	L90
75	M75 x 1.5	3"	19	60.5	68.0	78.5	2.50	0.30-1.00	79	90.0	99.0	1.163	L90
80	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	84.0	3.15	0.45-1.00	102	104.0	115.2	2.392	L104
80H	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	90.0	3.15	0.45-1.00	102	104.0	115.2	2.481	L104
85	M85 x 2.0	3" or 3 1/2"	25	69.0	78.0	90.0	3.15	0.45-1.00	102	104.0	115.2	2.163	L104
90	M90 x 2.0	3 1/2" or 4"	25	74.0	84.0	96.0	3.15	0.45-1.00	103	114.0	125.7	2.509	L114
90H	M90 x 2.0	3 1/2" or 4"	25	74.0	84.0	102.0	3.15	0.45-1.00	103	114.0	125.7	2.501	L114
100	M100 x 2.0	3 1/2" or 4"	25	82.0	90.0	102.0	3.15	0.45-1.00	104	114.0	125.7	2.199	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 UKEX, 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 9.3mm and not 6.7mm
- ** For gland sizes 16 and 20S when used with 3/4" NPT entry thread an L30 shroud would be required.