



PRODUCT TYPE D

Single Compression for Armoured Cables featuring Dedicated Armour Clamping

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

PART NUMBERS:

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



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
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 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 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 d IIC Gb / Ex e IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
RMRS	Ex d IIC / Ex d IIC / Ex e IIC / Ex e IIC / Ex ta IIIC / Ex tb IIIC

CERTIFICATION No:

ATEX	SIRA 01ATEX1271X & SIRA 09ATEX1221X
IECEx	IECEx SIR 07.0097X
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	CLJ 18.0323 X
CcOe - India	PESO P365300/2 & P365300/13
ABS	14-LD463991-1-PDA
LLOYD'S	10/00056(E1)
RMRS	14.02755.315

EXAMPLE PART NUMBERING:

DIWBF/NP/20/050NPT

OPTIONAL ACCESSORIES:

D	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
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
050NPT	1/2"NPT Male Entry Thread

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

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		Inner Sheath [C]	Outer Sheath [D]	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	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

- * For gland size 20 the silicone inner seal has a minimum diameter of 9.3 mm and NOT 6.7mm
- 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 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 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.