

PRODUCT TYPE A*RDC

Double Seal Gland for Unarmoured Cable featuring a Freely Rotating Flexible Metallic Conduit Connector

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68



PRODUCT DESCRIPTION

"A*RDC" type 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. They provide two controlled pull resistant environmental displacement seals on the cable outer sheath, minimising damage to cables that exhibit "cold flow" characteristics. The gland maintains IP66 & IP68 to 50 metres. It is supplied with an IP O-ring seal as standard on metric entry threads. The gland features a freely rotating flexible metallic 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 60079-31 & IEC 60529

EXAMPLE PART NUMBERING:
A2RDCBF/NP/20-1/M20

A	Gland featuring controlled displacement sealing
2	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
R	Rotating Conduit Design
DC	Double Seal with Rotating Metallic Flexible Conduit Connector
B	Aluminium (A) / Brass (B) / Stainless Steel (S)
F	Multiple Certification
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 1.5mm 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)

IP RATING:	IP66 & IP68 (50 metres - 7 Days)
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

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
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	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
ABS	Specified ABS Rules
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 21UKEX1032X & CML 21UKEX4043X
ATEX	CML 19ATEX1345X & CML 19ATEX4109X
IECEX	IECEX CML 19.0103X
EAC	RU C-GB.AX58.B.05106/24
INMETRO - Brazil	NCC 13.2012 X
CCC - China	2021312313000408
UKRAINE	CLJ 18.0325 X
CCoE - India	PESO P494321/6 & P494321/13
ECAS-Ex	25-06-153223/E25-06-159811/NB0007
ABS	25-0158110-PDA
LLOYD'S	LR2124442TA
DNV	TAE00004XK

CABLE GLAND SELECTION TABLE
(ALL DIMENSIONS IN mm)

Gland & Connector Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details Outer Sheath [D]		Typical Conduit Diameter		Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Min	Max	I/D	Max O/D		Across Flats [A]	Across Corners	Weight (Kgs)
12-1"	M12 x 1.5	1/4"	16	0.9	5.4	6.8	10.3	57	19.0	20.9	0.085
12-2"	M12 x 1.5	1/4"	16	0.9	6.0	10.2	14.1	57	19.0	20.9	0.084
12-3"	M12 x 1.5	1/4"	16	0.9	6.0	9.1	14.3	57	19.0	20.9	0.087
12-4"	M12 x 1.5	1/4"	16	0.9	6.0	10.9	15.8	57	19.0	20.9	0.092
12-5"	M12 x 1.5	1/4"	16	0.9	6.0	7.8	13.0	57	19.0	20.9	0.086
16-1	M16 x 1.5	3/8"	16	4.0	8.4	10.2	14.1	64	25.4	28.0	0.170
16-2	M16 x 1.5	3/8"	16	4.0	8.4	10.9	15.8	64	25.4	28.0	0.177
16-3	M16 x 1.5	3/8"	16	4.0	8.4	13.0	17.1	64	25.4	28.0	0.182
20S-1	M20 x 1.5	1/2" or 3/4"	16	7.2	11.0	13.0	17.1	75	25.4	28.0	0.188
20S-2	M20 x 1.5	1/2" or 3/4"	16	7.2	11.7	13.9	19.3	75	25.4	28.0	0.198
20S-3	M20 x 1.5	1/2" or 3/4"	16	7.2	11.7	14.6	20.7	75	25.4	28.0	0.190
20-1	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	16.9	22.3	75	30.0	33.0	0.247
20-2	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	16.9	23.8	75	30.0	33.0	0.256
20-3	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	18.7	24.8	75	30.0	33.0	0.270
20-4	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	20.7	28.3	75	30.0	33.0	0.289
20-5	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	13.9	19.3	75	30.0	33.0	0.252
25-1	M25 x 1.5	3/4" or 1"	16	13.5	20.0	23.7	31.3	76	37.6	41.4	0.376
25-2	M25 x 1.5	3/4" or 1"	16	13.5	19.0	21.1	26.8	76	37.6	41.4	0.351
25-3	M25 x 1.5	3/4" or 1"	16	13.5	19.0	25.0	31.3	76	37.6	41.4	0.386
25-4	M25 x 1.5	3/4" or 1"	16	13.5	20.0	20.7	28.3	76	37.6	41.4	0.341
32-1	M32 x 1.5	1" or 1 1/4"	16	19.5	26.0	28.1	33.3	77	46.0	50.6	0.487
32-2	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	30.4	40.8	77	46.0	50.6	0.534
32-3	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	30.4	38.8	77	46.0	50.6	0.555
40-1	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	36.4	46.8	83	55.0	60.5	0.826
40-2	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	36.4	44.8	83	55.0	60.5	0.802
40-3	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	37.6	45.3	83	55.0	60.5	0.788
50S-1	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	48.4	55.8	84	65.0	71.5	1.026
50-1	M50 x 1.5	2"	16	33.1	44.1	48.4	55.8	84	65.0	71.5	0.934
63S-1	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	57.5	64.8	84	80.0	88.0	1.523
63-1	M63 x 1.5	2 1/2"	19	46.7	53.6	57.5	64.8	84	80.0	88.0	1.427

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.
- 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.
- It is the installer's responsibility to ensure that the flexible conduit is secured correctly.
- If fit testing is required for specific conduit please contact Peppers.
- Where approval in addition to UKEX, ATEX and IECEX is required, this must be clearly requested at time of enquiry / order.
- Gland sizes 12 not available in aluminium