

PAP - PAPDL

Cable glands for armoured cables



Mechanical characteristics

Body/cab	OT-58 brass (ON) - AISI-316L stainless steel (XX) marine grade copper free aluminium (on project request only)
Finishes	full nickel plating treatment (brass material only)
Rubber rings	EPDM rubber 50-60 shore hardness (standard supply) Silicon rubber 60 shore hardness (on demand only)
O-ring	silicon rubber – 60 shore hardness
Skid washer	nylon 6.0

Installation

hazardous areas - Zone 1/2 (Gases) - Zone 21/22 (Dusts)

Classification

Group II - Category 2G 2D/3G 3D

Reference standards

Directive 2014/34/EU	
Execution	 ☑ II 2 G Ex db / Ex eb / Ex ia / IIC Gb II 2 D Ex tb IIIC Db ☑ II 3 G Ex nR IIC Gc / II 3 D Ex tc IIIC Dc
Rules of compliance	EN/IEC 60079-0; EN/IEC 60079-1; EN/IEC 60079-7; EN/IEC 60079-11; EN/IEC 60079-31
EU type-examination certificate	INERIS 09 ATEX 0028X INERIS 23 ATEX 3004X (Ex nR only)
Protection degree	IP66 or IP66/68
Ambient temperature	-40 °C ÷ +90 °C (Rubber rings EPDM-60) -60 °C ÷ +180 °C (Rubber rings SILICON)
Other available	CCOE PESO: P531870
certificates	ECASEx: 23-06-22481/Q23-06-048569/NB0002
	KC: in progress
	BS standard: EPTI 22 IEC 0423
	IECEx: IECEx INE 11.0017X
	INMETRO: CEPEL 12.2177X
	RINA: ELE411722CS
	Russian Marine Certificate (RMRS): 19.02521.280
	CCC 2023122313116542
	Deluge certification* for sizes 1÷6 with
	silicon rubber rings only:
	SIR20200310-001, SIR20200310-002,
	SIR20200310-003, SIR20200311-004,
	SIR20200311-005, SIR20200311-006
	according to Shell DTS-01:91

^{*}on request only

Applications

For steel wire armoured cables (swa) for steel tape armoured cables

Double Compression Type For Indoor And Outdoor Use

Provided armour clamping using clamping arrangements suitable for all armour wire/braid types

Internal lead device for electrical bond of cable lead inner sheath

Double compression – under armour and overall of armour cable

On Request Accessories

- Locknuts, Gaskets, PVC Shrouds, Earthing Tags, Sealing (See DL-NW-PTD-ET bulletin)
- Deluge option from size 1 to size 6 with silicon rubber rings only





















Cable gland selection table

Code	Ci	Entry thre	ad siz	ze				Dia. unde	rarmour	Outer she	ath Dia.	Hexagon	Material	(2)
(1)	Size	Metric	(2)	NPT	(2)	ISO 228	(2)	min (mm)	max (mm)	min (mm)	max (mm)	(mm)	Material	(3)
		100 1440		0./0 NIDT		0 /011		4,0	7,0	40.0	45.0	0/0	Nickel pl. brass	ON
PAP#	0.0	ISO-M16		3/8"NPT	N.I.	3/8"	0	7,0	10,0	10,0	15,0	24,0	Stainless steel	XX
	00	100 1400	М	4 (OIINIDT	N	1 /01	- G	4,0	7,0	40.0	45.0		Nickel pl. brass	ON
		ISO-M20		1/2"NPT		1/2"		7,0	10,0	10,0	15,0	32,0	Stainless steel	XX
	01	100 M20	N.4	1/2"NPT	N	1/01	- — G	5,5	8,0	10,0	15,0	22.0	Nickel pl. brass	ON
	UT	ISO-M20	М		IN	1/2"	G	10,5	13,0	14,0	19,0	32,0	Stainless steel	XX
		100 1405		0.//!!NIDT	N.I.	0 // !!		7,0 10,0 Stainless ste 5,5 8,0 10,5 13,0 14,0 19,0 32,0 Stainless ste 10,5 13,0 15,5 19,0 20,0 36,0 Stainless ste 10,5 18,0 20,0 24,0 36,0 Stainless ste 15,0 18,0 21,0 25,0 31,0 45,0 Stainless ste 21,0 24,0 25,0 31,0 37,0 53,0 Stainless ste 21,0 27,0 30,0 34,0 40,0 Stainless ste 24,0 27,0 30,0 36,0 43,0 61,0 33,0 Stainless ste 24,0 27,0 30,0 36,0 43,0 61,0 Stainless ste 24,0 27,0 30,0 36,0 42,0 48,0 Stainless ste 24,0 45,0 50,0 56,0 T1,0 Stainless ste 42,0 45,0 50,0 56,0 S8,0 64,0 84,0 Stainless ste 42,0 45,0 58,0 64,0 84,0 Stainless ste 52,0 56,0 59,0 65,0 72,0 Nickel pl. bras	Nickel pl. brass	ON				
	02	ISO-M25	М	3/4"NPT	Ν	3/4"	G					36,0	Stainless steel	XX
		100 1400		- AIINIDT	N.I.	4.11		15,0		20,0	26,0		Nickel pl. brass	ON
PAP#	03	ISO-M32	М	1"NPT	Ν	1"	G					45,0	Stainless steel	XX
PAPDL#*				1 1/4"									Nickel pl. brass	ON
	04	ISO-M40	М	NPT	N	1 1/4"	G					53,0	Stainless steel	XX
		100 1450		1 1/2"		4.4.(0)		24,0	27,0	30,0			Nickel pl. brass	ON
	05	ISO-M50	М	NPT	N	1 1/2"	G	30,0	33,0			61,0	Stainless steel	XX
		100 1400		OILLIDT								71.0	Nickel pl. brass	ON
	06	ISO-M63	М	2"NPT	Ν	2"	G					/1,0	Stainless steel	XX
PAP#				2.1/2"						52,0	58,0		Nickel pl. brass	ON
PAP#	07	ISO-M75	М	2 1/2" NPT	N	2 1/2"	G	48,0	51,0			84,0	Stainless steel	XX
PAP#	08	ISO-M90	М	3"NPT	N	3"	G	56,0 59,0	59,0 62,0	71,0	78,0	101,0	Nickel pl. brass	ON
								62,0 65,0	65,0 68,0	74,0	81,0		Stainless steel	XX
								68,0	74,0	81,0	88,0		Nickel pl. brass	ON
PAP#	09	ISO-M100	М	4"NPT	N	4"	G	74,0 80,0 86,0	80,0 86,0 92,0	88,0 96,0	96,0 104,0	126,0	Stainless steel	XX
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	V		V	★ ★										
РА	P #	0	1	мо	N →	PAP#01MC)N (no	n-barrier ca	ole gland nic	ckel plated b	orass ISO-M2	20 thr.)		
			╫											
PA	P #	0	3	N X	X	PAP#03NX	X (nor	n-barrier cab	le gland sta	inless steel	1"NPT THR.)			
РА	P D	L # 0	3	N X	X -	PAPDL#03	NIXX (r	on-harriar	ahla dland (etainlace eta	al with dalu	ao)		

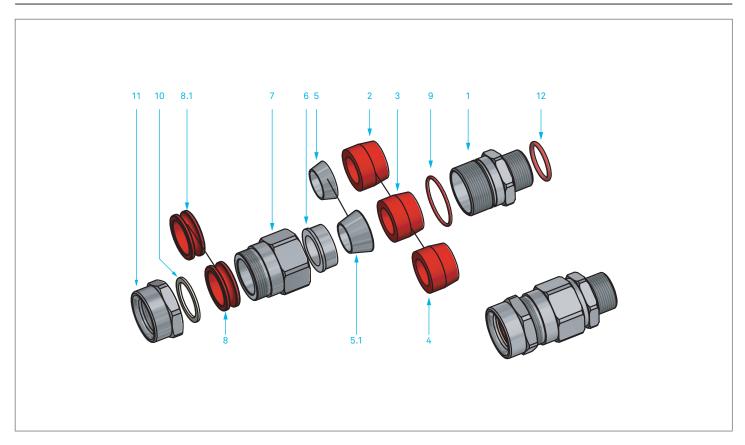
Cable gland ordering examples

Legend

(1) -	cable gland type/model	PAP# = Non-barrier cable gland
(2) -	threading	M = ISO METRIC pitch 1,5mm / N = NPT (ANSI/ASME B1.20.1) - G = ISO-228
(3) -	cable gland material	ON - nickel plated brass / XX = AISI-316l stainless steel



PAP - PAPDL dimensional



1	Body
2 - 3 - 4	Inner sealing ring for armoured cable
5 - 5.1	Armour clamping cone
6	Armour clamping ring for armoured cable
7	Gland barrel
8 - 8.1	Outer sealing silicon ring
9	Deluge* silicon rubber o-ring
10	Anti rubbing washer
11	Gland nut
12	Silicon o. ring (only for isometric body)

^{*}on request, from size 1 to 6 only

REMARK

Due to the development of the national and international specifications and of the technology, the above technical characteristics showed on this bulletin can be considered as binding on our confirmation only.