BARTEC

PAPB

Barrier cable glands for armoured cables

Reference standards

Directive 2014/34/EU	
Execution	Ⓔx II 2 G Ex db / Ex eb/ Ex ia/ IIC Gb Ⓔx II 2 D Ex tb IIIC Db Ⓔx II 3 G Ex nR IIC Gc Ⓔx 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 60079-15; 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 ÷ +100 °C (Rubber rings SILICON)
Other Available Certificates	IECEx: IECEx INE 11.0017X ECASEx: 23-06-22481/Q23-06-048569/NB0002 INMETRO: CEPEL 12.2177X KC: in progress

Installation

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

Classification

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

Mechanical characteristics

Body / cap	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
Chamber for sealing	OT-58 brass OT-58 nickel plated brass (on demand) AISI-316L stainless steel (on demand)

Applications

For steel wire armoured cables (swa) for steel tape armoured cables and for lead inner sheath cables
Double Compression Type For Indoor And Outdoor Use
Provided armour clamping using clamping arrangements suitable for all armour wire/braid types
Double compression - under armour and overall of armour cable (inner and outer sealing)
Sealing with proper resin into “chamber of sealing”

On Request Accessories

– Locknuts, Gaskets, PVC Shrouds, Earthing Tags, Sealing, (See DL-NW-PTD-ET bulletin)

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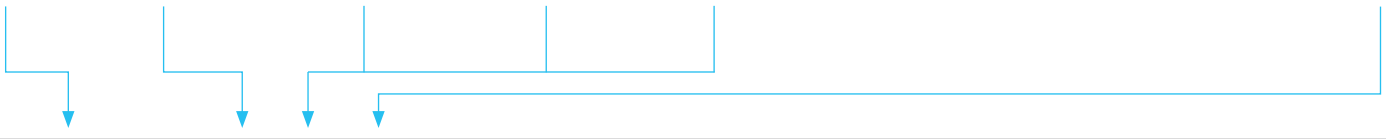
Cable gland selection table

Code (1)	Size	Entry thread size						Dia. under armour		Outer sheath dia.		Hexagon	Material	
		Metric	(2)	NPT	(2)	ISO 228	(2)	min [mm]	max [mm]	min [mm]	max [mm]	[mm]		(3)
PAPB#	00	ISO-M16 ISO-M20	M	3/8" NPT 1/2" NPT	N	3/8" 1/2"	G	4,0 7,0 4,0 7,0	7,0 10,0 7,0 10,0	10,0 10,0	15,0 15,0	24,0 32,0	Nickel pl. brass Stainless steel Nickel pl. brass Stainless steel	ON XX ON XX
PAPB#	01	ISO-M20	M	1/2" NPT	N	1/2"	G	5,5 8,0 10,5	8,0 10,5 13,0	10,0 14,0	15,0 19,0	32,0	Nickel pl. brass Stainless steel	ON XX
PAPB#	02	ISO-M25	M	3/4" NPT	N	3/4"	G	10,5 13,0 15,5	13,0 15,5 18,0	15,0 19,0	20,0 24,0	36,0	Nickel pl. brass Stainless steel	ON XX
PAPB#	03	ISO-M32	M	1" NPT	N	1"	G	15,0 18,0 21,0	18,0 21,0 24,0	20,0 25,0	26,0 31,0	45,0	Nickel pl. brass Stainless steel	ON XX
PAPB#	04	ISO-M40	M	1 1/4" NPT	N	1 1/4"	G	21,0 24,0 27,0	24,0 27,0 30,0	26,0 31,0 34,0	32,0 37,0 40,0	53,0	Nickel pl. brass Stainless steel	ON XX
PAPB#	05	ISO-M50	M	1 1/2" NPT	N	1 1/2"	G	24,0 27,0 30,0 33,0	27,0 30,0 33,0 36,0	30,0 36,0 40,0	37,0 43,0 47,0	61,0	Nickel pl. brass Stainless steel	ON XX
PAPB#	06	ISO-M63	M	2" NPT	N	2"	G	36,0 39,0 42,0	39,0 42,0 45,0	42,0 47,0 50,0	48,0 53,0 56,0	71,0	Nickel pl. brass Stainless steel	ON XX
PAPB#	07	ISO-M75	M	2 1/2" NPT	N	2 1/2"	G	42,0 45,0 48,0 51,0	45,0 48,0 51,0 54,0	52,0 58,0 61,0	58,0 64,0 67,0	84,0	Nickel pl. brass Stainless steel	ON XX
PAPB#	08	ISO-M90	M	3" NPT	N	3"	G	52,0 56,0 59,0 62,0 65,0	56,0 59,0 62,0 65,0 68,0	65,0 71,0 74.0	72,0 78,0 81,0	101,0	Nickel pl. brass Stainless steel	ON XX
PAPB#	09	ISO-M115	M	4" NPT	N	4"	G	68,0 74,0 80,0 86,0	74,0 80,0 86,0 92,0	81,0 88,0 96,0	88,0 96,0 104,0	126,0	Nickel pl. brass Stainless steel	ON XX



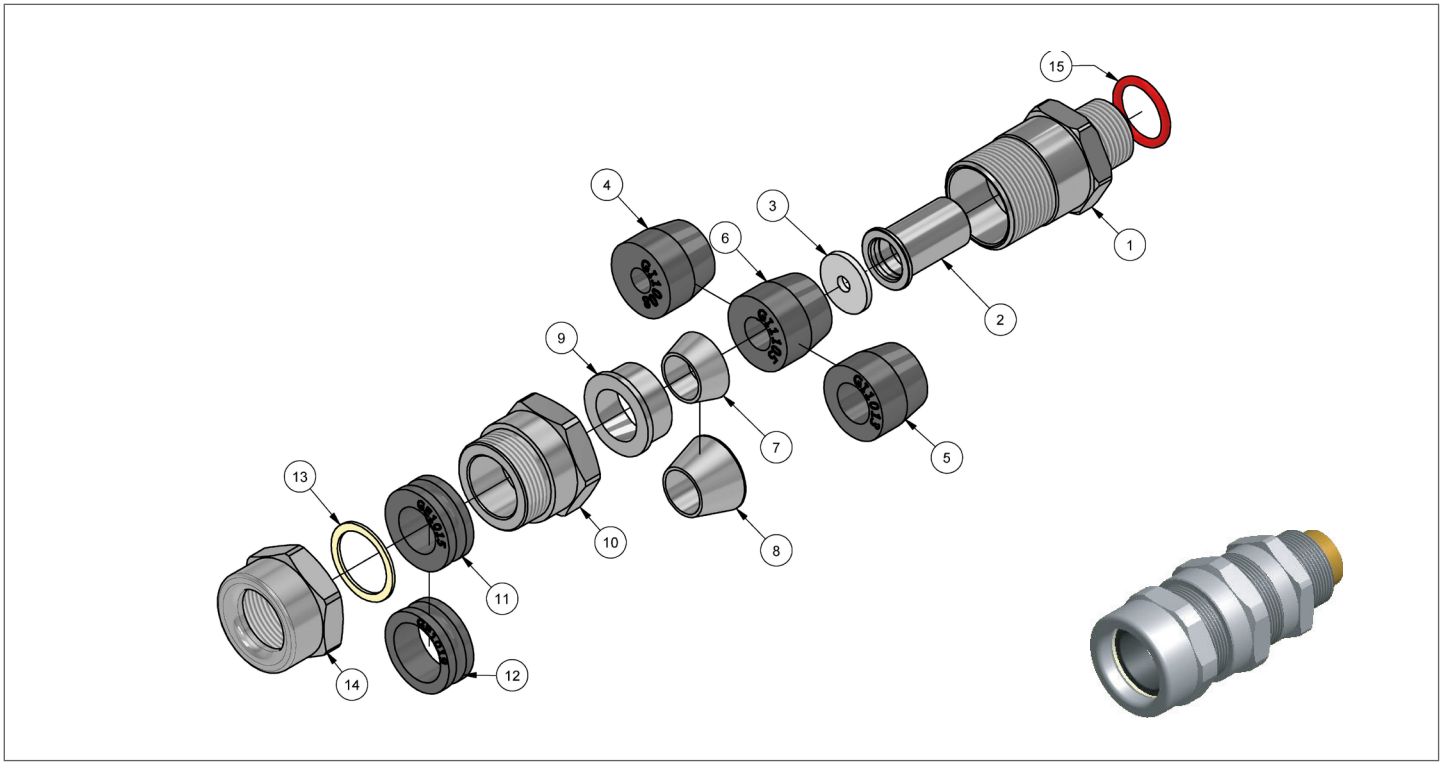
P	A	P	B	#	0	1	M	O	N	→ PAPB#01MON (barrier cable gland nickel plated brass ISO-M20 THR.)
P	A	P	B	#	0	3	N	X	X	→ PAPB#03NXX (barrier cable gland stainless steel 1" NPT THR.)
P	A	P	B	#	0	3	M	X	X	→ PAPB#03MXX (barrier cable gland stainless steel ISO-M32 THR.)

Cable gland ordering examples

Legend

(1) –	cable gland type/model	PAPB# = 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

PAPB dimensional



1	Barrier cable gland body
2	Sealing chamber
3	Resin seal rubber
4 - 5 - 6	Inner rubber seal
7 - 8	Pushing seal cone
9	Armour clamping ring
10	Intermediate gland body
11 - 12	Outer rubber seal
13	Nylon washer
14	Gland nut
15	Or gasket (metric thread only)

Flowable epoxy resin RSN#C0200	
Cable gland size	Resin quantity [g]
0	4
1	7
2	12
3	21
4	36
5	53
6	86
7	159
8	250
9	533

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.