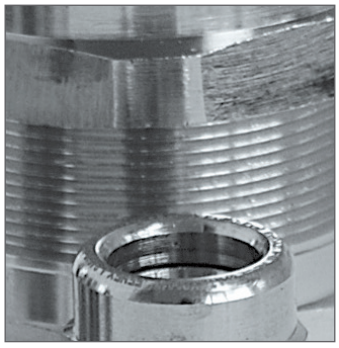
BARTEC

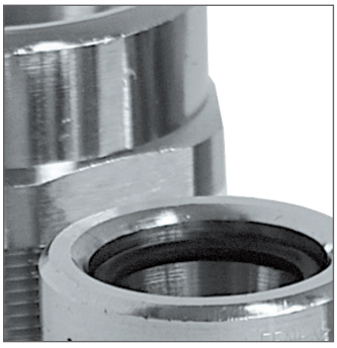
PNA

Cable glands unarmoured cables

Mechanical characteristics

Body/cab	Standard production: OT-58 brass UNI EN12164/5 (ON) AISI-316L stainless steel (XX) Marine grade copper free aluminium (AL) (on project request only) On request production: CW711R naval brass EN 12164/8 CW712R naval brass EN 12163/7 CW719R naval brass EN 12163/7 CW724R brass EN 12163/7 CW510L brass EN 12163/7
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 certificates	IECEx: IECEx INE 11.0017X INMETRO: CEPEL 12.2177X RINA: ELE411722CS CCC 2023122313116542 CCOE PESO: P531870 ECASEx: 23-06-22481/Q23-06-048569/NB0002 KC: in progress BS standard: EPTI 22 IEC 0423

Applications

For unarmoured cables only
Single compression type suitable for indoor and outdoor use
Single compression – on cable (inner 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

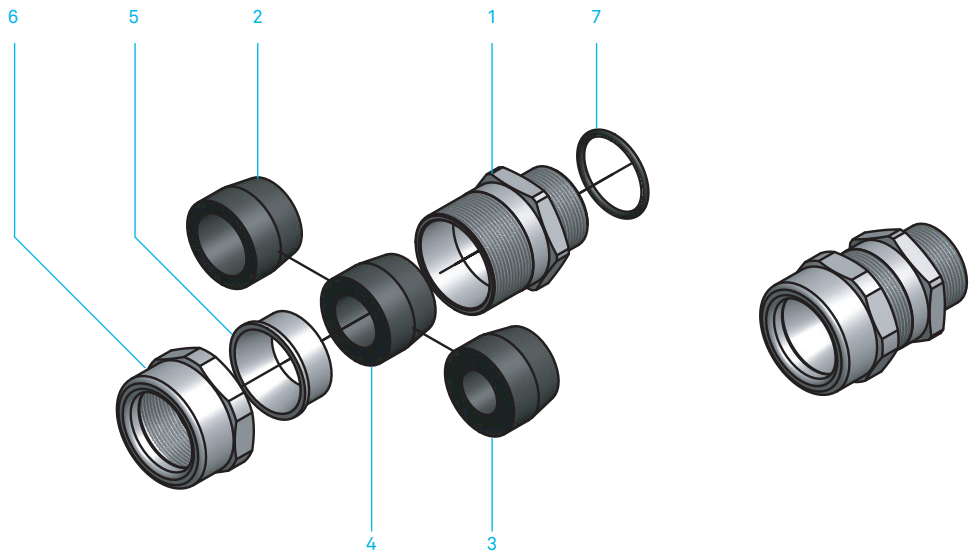
Code (1)	Size	Entry thread size						Inner sheath Dia.		Hexagon	Material	(3)
		Metric	(2)	NPT	(2)	ISO 228	(2)	min (mm)	max (mm)	(mm)		
PNA#	00	ISO-M16	M	3/8" NPT	N	3/8"	G	4.0 7.0	7.0 10.0	24.0	Nickel pl. brass	ON
											Stainless steel	XX
		ISO-M20		1/2" NPT		1/2"		4.0 7.0	7.0 10.0	32.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	01	ISO-M20	M	1/2" NPT	N	1/2"	G	5.5 8.0 10.5	8.0 10.5 13.0	32.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	02	ISO-M25	M	3/4" NPT	N	3/4"	G	10.5 13.0 15.5	13.0 15.5 18.0	36.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	03	ISO-M32	M	1" NPT	N	1"	G	15.0 18.0 21.0	18.0 21.0 24.0	45.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	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	53.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	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	61.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	06	ISO-M63	M	2" NPT	N	2"	G	36.0 39.0 42.0	39.0 42.0 45.0	71.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	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	84.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	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	101.0	Nickel pl. brass	ON
											Stainless steel	XX
PNA#	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	126.0	Nickel pl. brass	ON
											Stainless steel	XX

P	N	A	#	0	1	M	0	N	→ PNA#01M0N (non-barrier cable gland nickel plated brass ISO-M20 THR.)
P	N	A	#	0	3	N	X	X	→ PNA#03NXX (non-barrier cable gland stainless steel 1/2"NPT THR.)

Cable gland ordering examples

Legend		
(1) –	cable gland type/model	PNA# = 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

PNA dimensional



1	Body
2 - 3 - 4	Inner sealing ring for not armoured cable
5	Press ring
6	Gland nut
7	O-ring (only for metrical)

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.