

Cable Glands for SWA and AWA Cables

ORION



Technical Details		
Material	Body, Cap	Brass, Brass Nickel Plated, Stainless Steel, Aluminium
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Aluminium
	Seal	CR (Chloroprene) , Silicone
	O-ring	CR (Chloroprene) , Silicone
Ingress Protection Rating		IP 68 - 5 Bar, 30 min IP 66
Operating Temperature		Seal Material
Standard	CR (Chloroprene)	Silicone
	-40°C to +100°C	-60°C to +130°C
LT Type	-40°C to +80°C	-60°C to +80°C
Equipment For		Gas & Dust potentially explosive atmospheres
Suitable for use in	Group II	Gas Group IIC ZONE1/ZONE2
	Group III	Dust Group IIIC ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db
Marking Example *		BMD KBA.. CE 0722  II 2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db Ta -60°C to +130°C IP66/68 CESI 13 ATEX 033X IECEx CES 13.0013X
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.
Cable Type		SWA - AWA
Accessories		• Lock nuts • Gaskets (Washers) • Serrated Washers • Shrouds • Earth tags
Remarks		• O-ring available in Metric outer threads. • Accessories must be ordered separately.
Approvals		Certificate Number Standards
	CESI 13 ATEX 033X	EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2013 Edition:2 IEC 60079-7:2015-08 Edition:5
	20150612-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	20170315-E199260	UL 514B UL50E
	№ TC RU C-TR.AA87.B.00941	FOCT 31610.0-2014 FOCT IEC 60079-1:2013 FOCT IEC 60079-31:2013
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/18-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2014 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2014

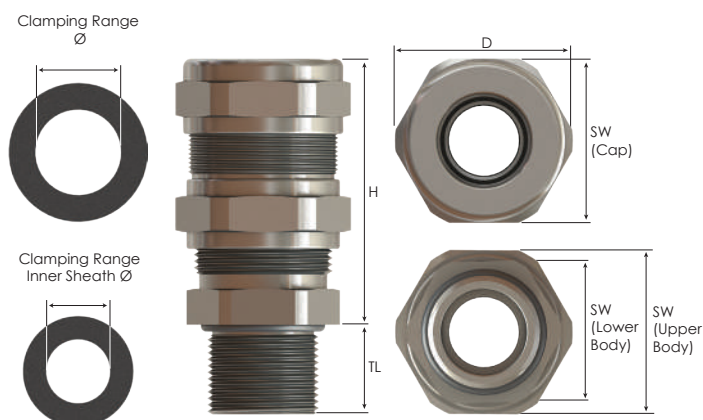
-For more information see our webpage.

* The standard marking consists ATEX & IECEx only. Marking acc. to other standards on request.

Order Coding							
Part Number	Material	Seal	Gasket (Washer)	Serrated Washer	Lock Nut	Shroud	Earth Tag
Mandatory	Mandatory	Mandatory	- Option	Option	Option	Option	Option
See table	B Brass BN Brass Nickel plated X Stainless steel A Aluminium	C Chloroprene S Silicone	- WC Chloroprene WS Silicone WF Fiber	WSR Serrated washer	L Lock nut	S Shroud	E Earth tag
Example							
KBA1N	BN	S	- WC	-	L	-	E

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Cable Glands for SWA and AWA Cables



Thread Type **METRIC** acc. to ISO 965-3

Outer Thread Size (Male)	Clamping Range		Armour Wire Ø min-max mm	Outer Thread Length TL mm	Cap SW Cap mm	Spanner Width Upper Body		Lower Body SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number
	Inner Sheath Ø min-max mm	Ø min-max mm				SW Upper Body mm	SW Lower Body mm				
M12x1,5	2,0 - 4,0	3,0 - 5,5	0,10 - 0,40	15,0	17	17	17	17	18,9	62,5	KBA0SM
	3,0 - 7,5	6,0 - 12,0	0,70 - 1,20	15,0	26	26	22	22	29,0	50,5	KBA0SLM
M16x1,5	3,0 - 8,5	6,0 - 12,0	0,70 - 1,20	16,0	26	26	22	22	29,0	49,5	KBA01SM
	6,0 - 12,0	8,5 - 16,0	0,70 - 1,25	16,0	29	29	25	25	31,5	52,0	KBA01M
M20x1,5	3,0 - 8,5	6,0 - 12,0	0,70 - 1,20	16,0	26	26	24	24	29,0	50,0	KBA1SM
	6,0 - 12,0	8,5 - 16,0	0,70 - 1,25	16,0	29	29	25	25	31,5	51,5	KBA1M
	8,5 - 14,5	12,0 - 20,0	0,90 - 1,30	16,0	32	30	28	28	35,0	54,0	KBA1LM
M25x1,5	3,0 - 8,5	6,0 - 12,0	0,70 - 1,20	18,0	26	26	29	29	31,5	50,0	KBA2XSM
	6,0 - 12,0	8,5 - 16,0	0,70 - 1,25	18,0	29	29	29	29	31,5	52,5	KBA2SM
	8,5 - 16,0	12,0 - 21,0	0,70 - 1,20	18,0	34	34	32	32	37,0	56,5	KBA2M
	12,0 - 20,0	16,0 - 26,0	1,30 - 1,70	18,0	40	40	36	36	44,0	63,0	KBA2LM
M32x1,5	6,0 - 12,0	8,5 - 16,0	0,70 - 1,25	18,0	29	29	36	36	39,8	52,5	KBA3XSM
	12,0 - 20,0	16,0 - 26,0	1,30 - 1,70	18,0	40	40	40	40	44,0	64,0	KBA3SM
	15,0 - 26,0	20,0 - 33,0	1,20 - 1,80	18,0	52	52	48	48	57,0	81,0	KBA3M
M40x1,5	12,0 - 20,0	16,0 - 26,0	1,30 - 1,70	18,0	40	40	45	45	50,0	64,0	KBA4XSM
	15,0 - 26,0	20,0 - 33,0	1,20 - 1,80	18,0	52	52	48	48	57,0	81,0	KBA4SM
	20,0 - 32,0	29,0 - 41,0	1,60 - 2,20	18,0	60	60	55	55	66,0	92,0	KBA4M
M50x1,5	15,0 - 26,0	20,0 - 33,0	1,20 - 1,80	18,0	52	52	54	54	60,0	81,0	KBA5XSM
	20,0 - 32,0	29,0 - 41,0	1,60 - 2,20	18,0	60	60	55	55	66,0	92,0	KBA5XMM
	22,0 - 35,0	33,0 - 48,0	2,00 - 2,80	18,0	75	70	60	60	83,0	100,0	KBA5SM
	27,0 - 41,0	36,0 - 52,0	1,80 - 2,80	18,0	74	70	70	70	81,8	104,5	KBA5M
M63x1,5	22,0 - 35,0	33,0 - 48,0	2,00 - 2,80	20,0	75	70	68	68	83,0	100,0	KBA6XSM
	27,0 - 41,0	36,0 - 52,0	1,80 - 2,80	20,0	74	70	70	70	81,8	104,5	KBA6XMM
	35,0 - 45,0	43,0 - 57,0	1,80 - 2,80	20,0	80	80	75	75	89,5	109,5	KBA6SM
	40,0 - 52,0	47,0 - 60,0	1,80 - 2,80	20,0	85	85	85	85	94,0	111,5	KBA6M
	45,0 - 56,0	54,0 - 70,0	1,30 - 2,50	20,0	100	95	90	90	110,5	128,5	KBA6LM
M75x1,5	35,0 - 45,0	43,0 - 57,0	1,80 - 2,80	20,0	80	80	85	85	94,0	109,5	KBA7XSM
	40,0 - 52,0	47,0 - 60,0	1,80 - 2,80	20,0	85	85	85	85	94,0	111,5	KBA7SM
	45,0 - 60,0	54,0 - 70,0	1,00 - 2,30	20,0	100	95	90	90	110,5	127,5	KBA7M
M90x1,5	40,0 - 52,0	47,0 - 60,0	1,80 - 2,80	20,0	85	85	100	100	110,5	111,5	KBA8XSM
	45,0 - 60,0	54,0 - 70,0	1,00 - 2,30	20,0	100	95	95	95	110,5	127,5	KBA8SM
	60,0 - 72,0	63,0 - 80,0	1,00 - 3,50	20,0	115	115	110	110	127,0	158,0	KBA8M
M110x1,5	45,0 - 60,0	54,0 - 70,0	1,00 - 2,30	20,0	100	95	120	120	128,0	127,5	KBA10SM
	60,0 - 72,0	63,0 - 80,0	1,00 - 3,50	20,0	115	115	120	120	128,0	158,0	KBA10M

Thread Type **METRIC** acc. to ISO 965-3 (LT Type)

Outer Thread Size (Male)	Clamping Range		Armour Wire	Outer Thread Length	Cap	Spanner Width		Outer Ø	max. Height	Part Number
	Inner Sheath Ø min-max mm	Ø min-max mm	Ø min-max mm	TL mm	SW Cap mm	Upper Body	Lower Body			
						SW Upper Body mm	SW Lower Body mm			
M90x2,0	70,0 - 82,0	78,0 - 90,0	1,5 - 4,4	20,0	120	120	120	134,0	159,5	KBA8MLT
M100x2,0	80,0 - 92,0	88,0 - 100,0	1,2 - 4,0	20,0	135	135	135	150,0	169,0	KBA9SMLT
M110x2,0	90,0 - 101,0	98,0 - 110,0	2,1 - 5,4	20,0	145	145	145	162,0	180,0	KBA10MLT
M130x2,0	100,0 - 115,0	109,0 - 123,0	2,0 - 5,4	24,0	160	160	160	176,0	202,0	KBA13MLT

Cable Glands for Armoured Cables

ORION



Technical Details			
Material	Body, Cap	Brass, Brass Nickel Plated, Stainless Steel, Aluminium	
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Aluminium	
	Seal	CR (Chloroprene) , Silicone	
	O-ring	CR (Chloroprene) , Silicone	
Ingress Protection Rating		IP 68 - 5 Bar, 30 min IP 66	
Operating Temperature		Seal Material	
Standard	CR (Chloroprene)	Silicone	
	-40°C to +100°C	-60°C to +130°C	
LT Type	-40°C to +80°C	-60°C to +80°C	
Equipment For		Gas & Dust potentially explosive atmospheres	
Suitable for use in	Group II	Gas Group IIC	ZONE1/ZONE2
	Group III	Dust Group IIIC	ZONE21/ZONE 22
Equipment Marking		Ex II 2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db	
Marking Example *		BMD KBA.. CE 0722  II 2GD Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db Ta -60°C to +130°C IP66/68 CESI 13 ATEX 033X IECEx CES 13.0013X	
Thread Type		• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.	
Cable Type		SWA - AWA	
Accessories		• Lock nuts • Gaskets (Washers) • Serrated Washers • Shrouds • Earth tags	
Remarks		• O-ring available in Metric threads. • Accessories must be ordered separately.	
Approvals		Certificate Number	Standards
	CESI 13 ATEX 033X		EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014
	IECEx CES 13.0013X		IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2013 Edition:2 IEC 60079-7:2015-08 Edition:5
	20150612-E474828		UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	20170315-E199260		UL 514B UL50E
	№ TC RU C-TR.AA87.B.00941		ГОСТ 31610.0-2014 ГОСТ IEC 60079-1:2013 ГОСТ IEC 60079-31:2013
	DNV 12.0053 X		ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044		IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/18-0240X		SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2014 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2014

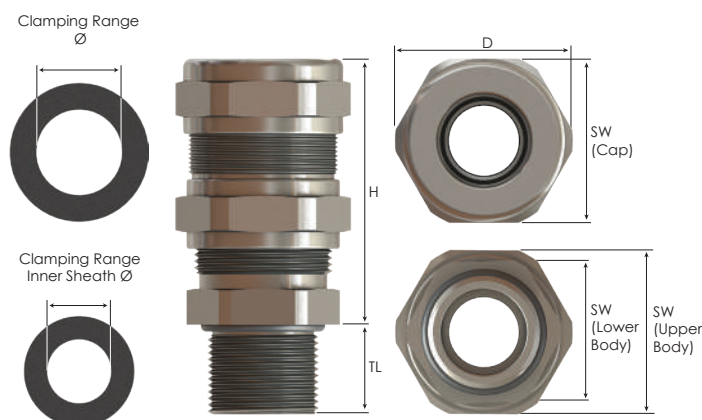
-For more information see our webpage.

* The standard marking consists ATEX & IECEx only. Marking acc. to other standards on request.

Order Coding							
Part Number	Material	Seal	Gasket (Washer)	Serrated Washer	Lock Nut	Shroud	Earth Tag
Mandatory	Mandatory	Mandatory	- Option	Option	Option	Option	Option
See table	B Brass BN Brass Nickel plated X Stainless steel A Aluminium	C Chloroprene S Silicone	- WC Chloroprene WS Silicone WF Fiber	WSR Serrated washer	L Lock nut	S Shroud	E Earth tag
Example							
KBA1N	BN	S	- WC	-	L	-	E

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Cable Glands for SWA and AWA Cables



Thread Type **NPT** acc. to ANSI ASME B1.20.1

Outer Thread Size (Male)	Clamping Range		Armour Wire Ø min-max mm	Outer Thread Length TL mm	Cap SW Cap mm	Spanner Width Upper Body		Lower Body SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number
	Inner Sheath Ø min-max mm	Ø min-max mm				SW Upper Body mm					
NPT 1/4"	2,0 - 4,0	3,0 - 5,5	0,10 - 0,40	15,0	17	17	17	17	18,9	62,5	KBA0SN
	3,0 - 8,0	6,0 - 12,0	0,70 - 1,20	15,0	26	26	22	22	29,0	50,0	KBA0SLN
NPT 3/8"	3,0 - 8,5	6,0 - 12,0	0,70 - 1,20	16,0	26	26	22	22	29,0	49,5	KBA01SN
	6,0 - 12,0	8,5 - 16,0	0,70 - 1,25	16,0	29	29	25	25	31,5	52,0	KBA01N
NPT 1/2"	3,0 - 8,5	6,0 - 12,0	0,70 - 1,20	21,0	26	26	24	24	29,0	49,5	KBA1SN
	6,0 - 12,0	8,5 - 16,0	0,70 - 1,25	21,0	29	29	25	25	31,5	51,0	KBA1N
	8,5 - 14,5	12,0 - 20,0	0,90 - 1,30	21,0	32	30	28	28	35,0	54,0	KBA1LN
NPT 3/4"	3,0 - 8,5	6,0 - 12,0	0,70 - 1,20	21,0	26	26	29	29	31,5	50,0	KBA2XSN
	6,0 - 12,0	8,5 - 16,0	0,70 - 1,25	21,0	29	29	29	29	31,5	52,5	KBA2SN
	8,5 - 16,0	12,0 - 21,0	0,70 - 1,20	21,0	34	34	32	32	37,0	56,5	KBA2N
	12,0 - 20,0	16,0 - 26,0	1,30 - 1,70	21,0	40	40	36	36	44,0	62,5	KBA2LN
NPT 1"	6,0 - 12,0	8,5 - 16,0	0,70 - 1,25	26,0	29	29	36	36	39,8	52,5	KBA3XSN
	12,0 - 20,0	16,0 - 26,0	1,30 - 1,70	26,0	40	40	40	40	44,0	64,0	KBA3SN
	15,0 - 26,0	20,0 - 33,0	1,20 - 1,80	26,0	52	52	48	48	57,0	80,5	KBA3N
NPT 1 1/4"	12,0 - 20,0	16,0 - 26,0	1,30 - 1,70	28,0	40	40	45	45	50,0	64,0	KBA4XSN
	15,0 - 26,0	20,0 - 33,0	1,20 - 1,80	28,0	52	52	48	48	57,0	81,0	KBA4SN
	20,0 - 32,0	29,0 - 41,0	1,60 - 2,20	28,0	60	60	55	55	66,0	92,0	KBA4N
NPT 1 1/2"	15,0 - 26,0	20,0 - 33,0	1,20 - 1,80	28,0	52	52	54	54	60,0	81,0	KBA5XSN
	20,0 - 32,0	29,0 - 41,0	1,60 - 2,20	28,0	60	60	55	55	66,0	92,0	KBA5XMN
	22,0 - 35,0	33,0 - 48,0	2,00 - 2,80	28,0	75	70	60	60	83,0	100,0	KBA5SN
	27,0 - 41,0	36,0 - 52,0	1,80 - 2,80	28,0	74	70	70	70	81,8	104,5	KBA5N
NPT 2"	22,0 - 35,0	33,0 - 48,0	2,00 - 2,80	28,0	75	70	68	68	83,0	100,0	KBA6XSN
	27,0 - 41,0	36,0 - 52,0	1,80 - 2,80	28,0	74	70	70	70	81,8	104,5	KBA6XMN
	35,0 - 45,0	43,0 - 57,0	1,80 - 2,80	28,0	80	80	75	75	89,5	109,5	KBA6SN
	40,0 - 52,0	47,0 - 60,0	1,80 - 2,80	28,0	85	85	85	85	94,0	111,5	KBA6N
	45,0 - 52,0	54,0 - 70,0	1,30 - 2,50	28,0	100	95	90	90	110,5	128,5	KBA6LN
NPT 2 1/2"	35,0 - 45,0	43,0 - 57,0	1,80 - 2,80	41,0	80	80	80	80	89,5	109,0	KBA7XSN
	40,0 - 52,0	47,0 - 60,0	1,80 - 2,80	41,0	85	85	85	85	94,0	111,5	KBA7SN
	45,0 - 60,0	54,0 - 70,0	1,00 - 2,30	41,0	100	95	90	90	110,5	127,5	KBA7N
NPT 3"	40,0 - 52,0	47,0 - 60,0	1,80 - 2,80	43,0	85	85	95	95	105,0	111,5	KBA8XSN
	45,0 - 60,0	54,0 - 70,0	1,00 - 2,30	43,0	100	95	95	95	110,5	127,5	KBA8SN
	60,0 - 72,0	63,0 - 80,0	1,00 - 3,50	43,0	115	115	110	110	127,0	158,0	KBA8N
NPT 3 1/2"	45,0 - 60,0	54,0 - 70,0	1,00 - 2,30	45,0	100	95	110	110	123,0	127,5	KBA9SN
	60,0 - 72,0	63,0 - 80,0	1,00 - 3,50	45,0	115	115	110	110	127,0	158,0	KBA9N

Thread Type **NPT** acc. to ANSI ASME B1.20.1 (LT Type)

Outer Thread Size (Male)	Clamping Range		Armour Wire Ø min-max mm	Outer Thread Length TL mm	Cap SW Cap mm	Spanner Width Upper Body		Lower Body SW Lower Body mm	Outer Ø D mm	max. Height H mm	Part Number
	Inner Sheath Ø min-max mm	Ø min-max mm				SW Upper Body mm					
NPT 3 1/2"	70,0 - 82,0	78,0 - 90,0	1,5 - 4,4	45,0	120	120	120	134,0	159,5	KBA9MNL	
NPT 4"	80,0 - 92,0	88,0 - 100,0	1,2 - 4,0	46,0	135	135	135	150,0	169,0	KBA10SNLT	
	90,0 - 101,0	98,0 - 110,0	2,1 - 5,4	46,0	145	145	145	162,0	180,0	KBA10NLT	
NPT 5"	100,0 - 115,0	109,0 - 123,0	2,0 - 5,4	48,0	160	160	160	176,0	202,0	KBA11SNLT	