



British Standard cable glands

With its cable glands complying with British Standard (BS) 6121, WISKA offers products for installation. Due to the use of steel wire armour cables, these locations require the use of special versions of cable glands.



BS 6121

Cable glands to BS 6121

Unlike to German market, the UK and other Commonwealth markets use steel wire armoured cable, which requires the use of BW and CW cable glands. In addition to these cables there are types to suit SY or CY braided cable. The demands of these kind of cable glands are fixed in British Standard (BS) 6121.

BS 6121 was originally developed to embrace both industrial and hazardous area cable gland design. Eventually, due to several changes within the standards, and with the emergence of harmonised European Normative for products and equipment used in potentially flammable atmospheres, BS 6121 concentrated on the industrial cable gland design only, the essence of which has prevailed for more than 40 years.

Today the BS 6121 requirement, although still called for in many engineering specifications around the world, is slowly being lost and diluted in the process of harmonisation and globalisation. Whilst new EN standards may be brought into deal with generic subject headings, and are considered to replace existing national standards, they do not always address the issues and needs of all applications.

See the following tables composed from data included in BS 6121:Part 1:1989.

Table A: Cable gland type designations for unarmoured cables

Type	Definition
A1	For unarmoured cable with an elastomeric or plastic outer sheath, with sealing function between the cable sheath and the sealing ring of the cable gland
A2	As type A1, with IP 66
A3	As type A1, but with an electrical bond for the metallic inner screen

Table B: Cable gland type designations for armoured cables

Type	Definition
B	No seal
C	Single outer seal
D	Single inner seal double (inner & outer) seal
E	Suffix ,1' = normal, suffix ,2' = lead sheathed

Table C: Cable type designations

Type	Definition
T	Pliable wire armour
W	Single wire armour
X	Braid
Y	Strip armour
Z	Tape armour

Table D: Typical cable gland type designations

Type	Definition
A2	Cable gland for unarmoured cable with outer seal
BW	Cable gland for SWA cable without seal
CW	Single seal cable gland for SWA cable
E1W	Double seal cable gland for SWA cable
CX	Single seal cable gland for braided cable
E1X	Double seal cable gland for braided cable

Gland selection guidelines

The following is an extract from BS6121:Part 1, with additions to assist in gland selection acc. to BS 6121.

- Select the type of cable and identify the gland type from this catalogue.
- Check the type, size and voltage rating of the cable.
- Check the size of the cable over the inner / lead sheath against the catalogue.
- Check the size of overall cable diameter against the catalogue.
- Check the size of armour or braiding.

Nominal conductor area (mm ²)	Number of cores											
	1	2	3	4	5	7	10	12	19	27	37	48
1,5	-	20s	20s	20s	20s	20s	20	20	25	25	32	32
2,5	-	20s	20s	20s	20s	20s	25	25	25	32	40	40
4	-	20s	20s	20								
6	-	20	20	20								
10	-	20	20	25								
16	-	25	25	25								
25	-	25	25	32								
35	-	32	32	40								
50	20	32	32	40								
70	20	32	40	40								
95	25	40	40	40								
120	25	40	50	50								
150	32	40	50	63								
185	32	50	50	63								
240	32	50	63	63								
300	40	63	63	75s								
400	40	63	75	75								

The gland size recommended in this chart are for guidance only and are based on cable manufactured to BS 5467. In accordance with BS 6121 actual cable dimensions must be used for gland selection.

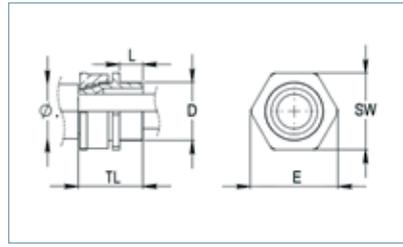
Gland packs, BW Pack, brass, BS 6121



BWP Pack



BW Pack



Protection class: IP 20
 Temperature range: -80 °C - 300 °C
 Material: Brass

BWP Pack, Premium, Shroud halogen-free (LSF)

Type	WISKA-No. bright	D (mm)	L (mm)	Ø (mm)	Ø (mm)	SW (mm)	TL (mm)	
BWP 20S Pack	50101701	M 20x1,5	10	- 15,8	-11,8	22	29	2
BWP 20 Pack	50101702	M 20x1,5	10	- 20,8	-13,8	27	34	2
BWP 25 Pack	50101703	M 25x1,5	10	- 27,5	-19,8	34	36	2
BWP 32 Pack	50101704	M 32x1,5	10	- 33,5	-26,4	41	39	2
BWP 40 Pack	50101705	M 40x1,5	15	- 40,9	-32,4	50	46	1
BWP 50S Pack	50101706	M 50x1,5	15	- 46,3	-38	59	48	1
BWP 50 Pack	50101707	M 50x1,5	15	- 52,6	-44	65	48	1
BWP 63S Pack	50101708	M 63x1,5	15	- 61,5	-49	75	54	1
BWP 63 Pack	50101709	M 63x1,5	15	- 65,3	-55,5	80	54	1
BWP 75S Pack	50101710	M 75x1,5	20	- 73	-62	90	62	1
BWP 75 Pack	50101711	M 75x1,5	20	- 78	-67	95	62	1
BWP 90 Pack	50101712	M 90x1,5	20	- 90	-79	106	66	1

BW Pack, Economy

Type	WISKA-No. bright	D (mm)	L (mm)	Ø (mm)	SW (mm)	TL (mm)	
BW 20S Pack	50101693	M 20x1,5	10	- 15,5	21	29	2
BW 20L Pack	50101694	M 20x1,5	10	- 18,3	24	29	2
BW 25 Pack	50101695	M 25x1,5	10	- 25,4	32	34	2
BW 32 Pack	50101696	M 32x1,5	10	- 32,2	38	34	2
BW 40 Pack	50101697	M 40x1,5	15	- 38,5	47	43	1
BW 50 Pack	50101698	M 50x1,5	15	- 52	60	45	1
BW 63 Pack	50101699	M 63x1,5	15	- 64,7	74	50	1
BW 75 Pack	50101700	M 75x1,5	20	- 70	90	62	1

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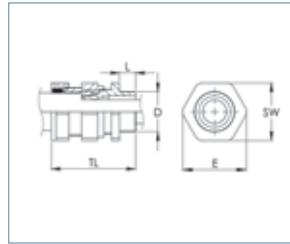
Gland packs, CW Pack, brass, BS 6121



CWP Pack



CW Pack



Protection class: IP 66
 Temperature range: -20 °C - 80 °C
 Material: Brass

CWP Pack, Premium, for armored cable, Shroud halogen-free (LSF)

Type	WISKA-No. bright						TL (mm)	
CWP 20SS Pack	50101680	M 20x1,5	10	8,4 - 13,8	-9	22	48	2
CWP 20S Pack	50101681	M 20x1,5	10	12,9 - 15,8	-11,8	24	50	2
CWP 20 Pack	50101682	M 20x1,5	10	15,5 - 20,8	-13,8	30	51	2
CWP 25 Pack	50101683	M 25x1,5	10	20,3 - 27,5	-19,8	38	58	2
CWP 32 Pack	50101684	M 32x1,5	10	26,7 - 33,5	-26,4	46	58	2
CWP 40 Pack	50101685	M 40x1,5	15	33 - 40,9	-32,4	55	77	1
CWP 50S Pack	50101686	M 50x1,5	15	39,4 - 46,3	-38	60	82	1
CWP 50 Pack	50101687	M 50x1,5	15	45,7 - 52,6	-44	65	82	1
CWP 63S Pack	50101688	M 63x1,5	15	52,1 - 61,5	-44	75	88	1
CWP 63 Pack	50101689	M 63x1,5	15	58,4 - 65,3	-55,5	80	88	1
CWP 75S Pack	50101690	M 75x1,5	20	64,8 - 73	-62	90	100	1
CWP 75 Pack	50101691	M 75x1,5	20	71 - 78	-67	95	100	1
CWP 90 Pack	50101692	M 90x1,5	20	81 - 90	-79	110	115	1

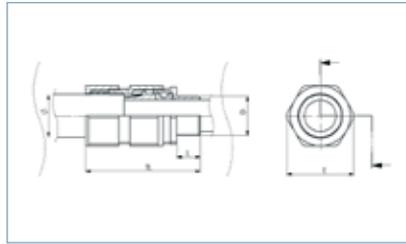
CW Pack, Economy

Type	WISKA-No. bright						TL (mm)	
CW 20S Pack	50101673	M 20x1,5	10	12,8 - 15,5	-11,8	24	48	2
CW 20L Pack	50101674	M 20x1,5	10	15,5 - 19,5	-13,6	27	50	2
CW 25 Pack	50101675	M 25x1,5	10	23 - 26,5	-20	35	57	2
CW 32 Pack	50101676	M 32x1,5	10	28 - 33,5	-26,5	42	62	2
CW 40 Pack	50101677	M 40x1,5	15	34 - 39,5	-32,1	53	69	1
CW 50 Pack	50101678	M 50x1,5	15	46 - 52	-42,2	63	73	1
CW 63 Pack	50101679	M 63x1,5	15	60 - 66	-55,2	80	82	1

Gland packs for single-wire armoured cables, E1W Pack, premium, brass, shroud halogen-free (LSF), BS 6121



E1W Pack



Protection class: IP 66/68
Temperature range: -20 °C - 80 °C
Material: Brass

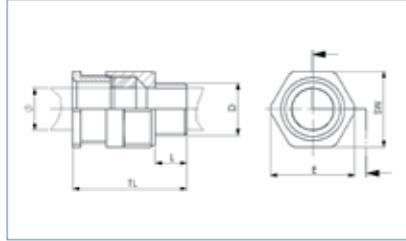
Type	WISKA-No. bright						TL (mm)	
E1W 20S Pack	50101655	M 20x1,5	15	12,9 - 15,8	8 - 11,8	24	63	2
E1W 20 Pack	50101656	M 20x1,5	15	15,5 - 20,8	11 - 13,8	30	67	2
E1W 25 Pack	50101657	M 25x1,5	15	20,3 - 27,5	13 - 19,8	38	76	2
E1W 32 Pack	50101658	M 32x1,5	15	26,7 - 33,5	19 - 26,4	46	80	2
E1W 40 Pack	50101659	M 40x1,5	20	33 - 40,9	25 - 32,4	55	86	1
E1W 50 Pack	50101660	M 50x1,5	20	39,4 - 46,3	31,5 - 38	60	94	1
E1W 50L Pack	50101661	M 50x1,5	20	45,7 - 52,6	36,5 - 44	65	94	1
E1W 63S Pack	50101662	M 63x1,5	20	52,1 - 61,5	42,5 - 49	75	103	1
E1W 63L Pack	50101663	M 63x1,5	20	58,4 - 65,3	48,5 - 55,5	80	103	1
E1W 75S Pack	50101664	M 75x1,5	20	64,8 - 73	54,5 - 62	90	106	1
E1W 75 Pack	50101665	M 75x1,5	20	71 - 78	60,5 - 67	95	106	1

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Gland packs for wire-braided cables, CXTP Pack, premium, brass, shroud halogen-free (LSF), BS 6121



CXTP Pack



Protection class: IP 66
 Temperature range: -20 °C - 80 °C
 Material: Brass

Type	WISKA-No. bright	D (mm)	L (mm)	(mm)	SW (mm)	TL (mm)	
CXT 20S Pack	50101666	M 20x1,5	15	7 · 11,6	24	40	2
CXT 20L Pack	50101667	M 20x1,5	15	10,5 · 13,6	27	40	2
CXT 25 Pack	50101668	M 25x1,5	15	12,5 · 19,8	36	49	2
CXT 32 Pack	50101669	M 32x1,5	15	18,5 · 26,3	41	49	2
CXT 40 Pack	50101670	M 40x1,5	20	25 · 32,1	50	51	1
CXT 50 Pack	50101671	M 50x1,5	20	30,5 · 38,1	60	51	1
CXT 63 Pack	50101672	M 63x1,5	20	36,5 · 44	75	69	1

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