

Cable Gland Selection Chart

Industrial and Hazardous Area Cable Glands approved to the latest IEC 60079 standards

2, 3 & 4 core + earth circular PVC Power Cables to AS/NZS 5000

with PVC (V-90) Insulated Copper Conductors and the following Voltage Ratings

1.5 - 6 mm² : 450/750v to AS/NZS 5000.2 8 10 - 300 mm² : 0.6 / 1.0 kV to AS/NZS 5000.1

Hazardous area glands Ex d, Ex e, Ex nR certified unarmoured cable

CABLE CONSTRUCTION			CORRESPONDING CABLE GLAND		
Conductor C.S.A. (mm)	Number of Conductors	Normal diameter (mm)	Industrial	Hazardous area and marine/wet locations	Hazardous area compound barrier cable gland
			A2	A2F* (or SS2K) (Ex d, Ex e, Ex nR)	PXSS2K (Ex d, Ex e, Ex nR)
1.5	2C + E	8.4	A220S	A2F20S	PXSS2K20S
2.5		9.8	A220	A2F20	PXSS2K20S
4		11.4	A220S	A2F20S	PXSS2K20S
6		12.4	A290	A2F20	PXSS2K20
10		16.1	A225	A2F25	PXSS2K25
16		18.0	A225	A2F25	PXSS2K25
25		20.5	A232	A2F32	PXSS2K32
35		22.5	A232	A2F32	PXSS2K32
50		25.6	A232	A2F32	PXSS2K32
1.5		9.2	A220S	A2F20S	PXSS2K20S
2.5	3C + E	11.1	A220S	A2F20S	PXSS2K20S
4		12.5	A220	A2F20	PXSS2K20
6		13.5	A220	A2F20	PXSS2K20
10		17.5	A225	A2F25	PXSS2K25
16		19.6	A225	A2F25	PXSS2K25
25		22.2	A232	A2F32	PXSS2K32
35		24.6	A232	A2F32	PXSS2K32
50		28.0	A240	A2F40	PXSS2K40
70		32.0	A240	A2F40	PXSS2K40
95		37.6	A250S	A2F50S	PXSS2K50S
120	4C + E	42.4	A250	A2F50	PXSS2K50
150		46.3	A263S	A2F63S	PXSS2K63S
185		51.7	A263	A2F63	PXSS2K63
240		59.4	A275S	A2F75S	PXSS2K75S
300		66.2	A275	A2F75	PXSS2K75
1.5		10.0	A220S	A2F20S	PXSS2K20S
2.5		12.0	A220	A2F20	PXSS2K20
4		13.8	A220	A2F20	PXSS2K20
6		15.0	A225	A2F25	PXSS2K25
10		19.2	A225	A2F25	PXSS2K25
16		21.5	A232	A2F32	PXSS2K32
25		24.5	A232	A2F32	PXSS2K32
35		27.2	A232	A2F40	PXSS2K40
50		31.2	A240	A2F40	PXSS2K40
70		35.8	A250S	A2F50S	PXSS2K50S
95		42.0	A250	A2F50	PXSS2K50
120		47.5	A263S	A2F63S	PXSS2K63S
150		51.8	A263	A2F63	PXSS2K63
185		57.9	A275S	A2F75S	PXSS2K75S
240		66.9	A275	A2F75	PXSS2K75
300		74.5	A290	A2F90	PXSS2K90

Note: 1. * Please substitute A2F with SS2K in the ordering references above when double seal cable glands are required.

2. This cable gland selection chart is provided for guidance purposes. Users are advised to check their actual cable dimensions before ordering cable glands.

3. Further detailed data sheets available on request.

Cable Gland Selection Chart

Industrial and Hazardous Area Cable Glands approved to the latest IEC 60079 standards

2, 3 & 4 core + earth PVC/SWA/PVC Power Cables to AS/NZS 5000.1

with PVC (V-90) Insulated Copper Conductors – Voltage Rating 0.6 / 1.0 kV

Hazardous area glands Ex d, Ex e, Ex nR certified armoured cable

CABLE CONSTRUCTION				CORRESPONDING CABLE GLAND			
Conductor C.S.A. (mm)	Number of Conductors	Normal diameter (mm)		Industrial	Hazardous area	Hazardous area and marine/wet locations	Hazardous area compound barrier cable gland
		Cable inner bedding	Overall diameter	E1W (or CW)	E1FW (SWA)	T3CDS	PX2KW
1.5	2C + E	8.7	14.1	E1W20S	E1FW20S	T3CDS20S	PX2KW20S
2.5		9.8	15.2	E1W20S	E1FW20S	T3CDS20S	PX2KW20S
4		11.5	16.9	E1W20	E1FW20	T3CDS20	PX2KW20
6		12.7	18.1	E1W20	E1FW20	T3CDS20	PX2KW20
10		14.5	20.6	E1W25S	E1FW25S	T3CDS25S	PX2KW25S
16		16.4	22.5	E1W25	E1FW25	T3CDS25	PX2KW25
25		18.9	25.7	E1W25	E1FW25	T3CDS25	PX2KW25
35		20.9	27.8	E1W32	E1FW32	T3CDS32	PX2KW32
50		24.0	30.9	E1W32	E1FW32	T3CDS32	PX2KW32
1.5	3C + E	9.5	15.0	E1W20S	E1FW20S	T3CDS20S	PX2KW20S
2.5		10.9	16.3	E1W20	E1FW20	T3CDS20	PX2KW20
4		12.6	18.7	E1W20	E1FW20	T3CDS20	PX2KW20
6		13.8	20.0	E1W20	E1FW20	T3CDS20	PX2KW20
10		15.9	22.1	E1W25	E1FW25	T3CDS25	PX2KW25
16		18.0	24.9	E1W25	E1FW25	T3CDS25	PX2KW25
25		20.6	27.5	E1W32	E1FW32	T3CDS32	PX2KW32
35		23.0	29.9	E1W32	E1FW32	T3CDS32	PX2KW32
50		26.4	33.7	E1W40	E1FW40	T3CDS40	PX2KW40
70		30.6	38.9	E1W40	E1FW40	T3CDS40	PX2KW40
95		35.8	44.3	E1W50S	E1FW50S	T3CDS50S	PX2KW50S
120		40.4	49.2	E1W50	E1FW50	T3CDS50	PX2KW50
150		44.5	54.5	E1W63S	E1FW63S	T3CDS63S	PX2KW63S
185		49.7	60.1	E1W63	E1FW63	T3CDS63	PX2KW63
240		57.2	68.8	E1W75S	E1FW75S	T3CDS75S	PX2KW75S
300		63.5	75.6	E1W75	E1FW75	T3CDS75	PX2KW75
1.5	4C + E	10.4	15.9	E1W20	E1FW20	T3CDS20	PX2KW20
2.5		11.9	17.3	E1W20	E1FW20	T3CDS20	PX2KW20
4		13.8	20.0	E1W20	E1FW20	T3CDS20	PX2KW20
6		15.2	21.4	E1W25S	E1FW25S	T3CDS25S	PX2KW25S
10		17.6	24.4	E1W25	E1FW25	T3CDS25	PX2KW25
16		19.9	26.8	E1W32	E1FW32	T3CDS32	PX2KW32
25		22.9	29.8	E1W32	E1FW32	T3CDS32	PX2KW32
35		25.6	32.6	E1W32	E1FW32	T3CDS32	PX2KW32
50		29.8	38.1	E1W40	E1FW40	T3CDS40	PX2KW40
70		34.0	42.5	E1W50S	E1FW50S	T3CDS50S	PX2KW50S
95		40.0	48.8	E1W50	E1FW50	T3CDS50	PX2KW50
120		45.5	55.8	E1W63S	E1FW63S	T3CDS63S	PX2KW63S
150		49.6	60.1	E1W63	E1FW63	T3CDS63	PX2KW63
185		55.7	67.4	E1W75S	E1FW75S	T3CDS75S	PX2KW75S
240		64.3	76.3	E1W75	E1FW75	T3CDS75	PX2KW75
300		71.8	85.8	E1W90	E1FW90	T3CDS90	PX2KW90

NOTE: 1. * Please substitute E1W with CW in the ordering references above when single seal cable glands are required.

2. This cable gland selection chart is provided for guidance purposes. Users are advised to check their actual cable dimensions before ordering cable glands.

Quick Reference Guide for Cable Gland Size to suit Armoured Power, Control and Instrument Cables to AS/NZS 5000

PVC/PVC/SWA/PVC Power

Conductor C.S.A. (mm ²)	2 core plus earth	3 core plus earth	4 core plus earth
1.5	SE1W20	E1W20S	E1W20
2.5	E1W20S	E1W20	E1W20
4	E1W20	E1W20	E1W20
6	E1W20	E1W20	E1W25S
10	E1W25S	E1W25	E1W25
16	E1W25	E1W25	E1W32
25	E1W25	E1W32	E1W32
35	E1W32	E1W32	E1W32
50	E1W32	E1W40	E1W40
70	-	E1W40	E1W50S
95	-	E1W50S	E1W50
120	-	E1W50	E1W63S
150	-	E1W63S	E1W63
185	-	E1W63	E1W75S
240	-	E1W75S	E1W75
300	-	E1W75	E1W90

PVC/PVC/SWA/PVC Control

Number of conductors	1.5mm ²	2.5mm ²
5C + E	E1W20	E1W20
6C + E	E1W20	E1W20
8C + E	E1W20	E1W25
10C + E	E1W25S	E1W25
12C + E	E1W25S	E1W25
15C + E	E1W25	E1W25
16C + E	E1W25	E1W32
20C + E	E1W25	E1W32
25C + E	E1W32	E1W32
30C + E	E1W32	E1W32
36C + E	E1W32	E1W40
40C + E	E1W32	E1W40
50C + E	E1W40	E1W50S

PVC/PVC/SWA/PVC Instrumentation

Number of Screened Pairs/Triples	Overall Screened		Individually and Overall	
	0.5mm ²	1.5mm ²	0.5mm ²	1.5mm ²

Pairs				
2	E1W20S	E1W20S	E1W20S	E1W20S
4	E1W20S	E1W20S	E1W20S	E1W20
6	E1W20S	E1W20	E1W20	E1W25S
8	E1W20S	E1W25S	E1W20	E1W25
10	E1W20	E1W25S	E1W25S	E1W25
12	E1W20	E1W25	E1W25S	E1W25
16	25SE1W	25E1W	E1W25	E1W32
20	25SE1W	32E1W	E1W25	E1W32
24	25E1W	32E1W	E1W32	E1W40
36	32E1W	40E1W	E1W32	E1W40
50	32E1W	50SE1W	E1W40	E1W50S

Triples				
1	-	E1W20S16	-	-
4	E1W20S	E1W20	E1W20S	E1W20
12	E1W25S	E1W25	E1W25S	E1W32
16	E1W25	E1W32	E1W25	E1W32

Please note that the cable gland sizes stated above are provided for guidance purposes only and end users are always advised to verify their cable dimensions against the corresponding cable gland sealing range before ordering.

Cable Gland Selection Chart

INDUSTRIAL CABLE GLANDS														
Cable Gland Type	Unarmoured Cable		Armoured Cable											
	Normal	Lead Sheathed	Swa	Braid	STA	Strip	PWA	Lead Sheathed	No Seal	Inner Seal	Outer Seal	Compound Barrier Seal	IP Rating	
BW			•						•					
A2	•										•		66/67/68	
CW			•								•		66	
E1W			•							•	•		66	
E1U			•	•	•	•	•			•	•		66	
E2W			•					•		•	•		66	
E2WU			•	•	•	•	•	•		•	•		66	

HAZARDOUS AREA CABLE GLANDS																	
Cable Gland Type	Unarmoured Cable		Armoured Cable														
	Normal	Lead Sheathed	Swa	Braid	STA	Strip	PWA	Lead Sheathed	No Seal	Inner Seal	Outer Seal	Compound Barrier Seal	IP Rating	Ex e	Ex d IIC	Ex nr	Ex td
A2F	•										•		66/67/68	•	•		•
CWE			•								•		66	•			•
CXE				•	•	•	•				•		66	•			•
E1FW			•							•	•		66	•	•	•	•
E1FU			•	•	•	•	•			•	•		66	•	•	•	•
E2FW			•					•		•	•		66	•	•	•	•
PXSS2K	•										•	•	66/67/68	•	•	•	•
PX2K			•	•	•	•	•				•	•	66/67/68	•	•	•	•
PX2KPB			•	•	•	•	•	•			•	•	66/67/68	•	•	•	•
T3CDS			•	•	•	•	•			•	•		66/67/68	•	•	•	•
T3CDSPB			•	•	•	•	•	•		•	•		66/67/68	•	•	•	•

Contact SLA for further information on cable glands as well as gland accessories as follows:

- Lock Nuts
- Earth Tags
- Sealing Washers
- Shrouds (PVC, LSF - Low Smoke & Fume)