

CABLE GLAND SELECTION CHARTS

Information necessary for correct gland selection:

1. This chart is based on published cable sizes by the cable manufacturers.
2. CCG cannot be held responsible should the cable gland not fit when the cable varies from published dimension's.
3. Environmental conditions (example: hazardous areas, indoor or outdoor applications).
4. Cable type and voltage rating (armour or unarmoured).
5. Actual overall cable diameter and under armour bedding.
6. Size and type of armour.
7. If earth bound attachment is required.
8. Outer sheath diameter should be used for selecting cable gland size.

Assistance on selection is available, please contact CCG.

3 Core Unarmoured XLPE Cable				
CONDUCT SIZE	3.3/6.6	6.35/11	12.7/22	19/33
16	5	5	-	-
25	5	6	-	-
35	5	6	-	-
50	6	6	7	-
70	6	6	8	9
95	6	6	8	9
120	7	8	8	10
150	7	8	9	10
185	8	8	9	11
240	9	9	10	11
300	9	9	10	-

3 Core SWA XLPE Cable				
CONDUCT SIZE	3.3/6.6	6.35/11	12.7/22	19/33
16	-	-	-	-
25	-	-	-	-
35	5	6	-	-
50	6	6	7	-
70	6	6	7	9
95	6	6	8	9
120	6	7	8	9
150	7	7	8	10
185	7	8	9	10
240	8	8	9	10
300	9	9	10	-

Single Core AWA XLPE Cable				
CONDUCT SIZE	3.3/6.6	6.35/11	12.7/22	19/33
95	3	4	4	4
120	3	4	4	5
150	4	4	5	5
185	4	4	5	5
240	4	4	5	6
300	5	5	5	6
400	5	5	6	6
500	5	5	6	6
630	6	6	6	6
800	6	6	6	7
1000	6	6	7	7

Single Core Unarmoured XLPE Cable				
CONDUCT SIZE	3.3/6.6	6.35/11	12.7/22	19/33
95	3	4	4	5
120	4	4	5	5
150	4	4	5	5
185	4	4	5	6
240	4	5	5	6
300	5	5	5	6
400	5	5	6	6
500	6	6	6	7
630	6	6	6	7
800	6	6	7	8
1,000	7	7	7	8

NO. OF CORES	2	3	4	5	6	7	8	10	12	19	27	37
1.5mm ²	0	0	0	0	1*	1*	1	2	2	3	3	4
2.5mm ²	0	0	1*	1	1	1	2	2	3	3	4	4
4mm ²	1*	1*	1	1	2	2	2	3	3	4*	4	5*
6mm ²	1	1	2	2	2	2						
10mm ²	2*	2	2									
16mm ²	2	2	3*									
25mm ²	3*	3	3									
35mm ²	3	3	4*									
50mm ²	3	4	4									
70mm ²	4*	4	5									
95mm ²	4	5*	5									
120mm ²	4	5	5									
150mm ²	5*	5	6*									
185mm ²	5	6	6									
240mm ²	6	6	7*									
300mm ²	6	7*	7									

PVC/SWA/PVC Cables
600 - 1,000 Volt
Gland Selection, ordering and enquiries:

Information necessary for correct gland selection.

1. This chart is based on published cable sizes by the cable manufacturers.
2. We cannot be held responsible should the gland not fit when the cable varies from published dimensions.
3. Environmental conditions (e.g. hazardous areas, indoor or outdoor application).
4. Cable type and voltage rating (armoured or unarmoured).
5. Actual cable diameter overall, and under armour (bedding).
6. Size and type of armour.
7. If earth bound attachments are required.
8. Outer sheath diameter should be used for selecting gland size.
9. Assistance on selection is available on request.

*IT IS POSSIBLE THAT CERTAIN MAKES OF CABLE ACCEPT A GLAND ONE SIZE SMALLER

CABLE TYPE		CCG GLANDS FOR CIRCULAR CABLE PVC/PVC								CCG GLANDS FOR SWA CABLE								CCG GLANDS FOR INSTRUMENTATION									
Copper Conductor (Cu)		Circular Cable, PVC Insulated, PVC Sheathed								Circular Cable, PVC Insulated, SWA/PVC Sheathed								Overall Screened (7/0.30)									
Details	Core Type	1 Core	1 Core	2 Core	Dia		3 Core	Dia		4 Core	Dia		2 Core	Dia		3 Core	Dia		4 Core	Dia		Unarmoured			SW Armoured		
		B/W	SDI	+E	mm	+E	mm	+E	mm	+E	mm	+E	mm	+E	mm	+E	mm	+E	mm	+E	mm	No. of Pairs	Dia mm	Gland Size	No. of Pairs	Dia mm	Gland Size
1.5mm ²	(1/1.38)	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5mm ²	(7/0.50)	0	0	0	9.4	0	10.3	1	11	0	13.3	0	14.1	0	14.9	2	8.4	0	2	13.0	0	-	-	-	-	-	-
2.5mm ²	(1/1.78)	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5mm ²	(7/0.67)	0	0	1*	10.9	1	12	1	12.9	0	14.8	1	16.5	1	17.5	6	11.3	1	6	15.9	1	4	9.1	0	4	13.7	0
4mm ²	(7/0.85)	0	0	1	12.3	1	13.4	2	14.5	1	16.8	1	17.9	1	19.0	8	12.5	1	8	17.6	1	10	13.7	1	10	18.8	1
6mm ²	(7/1.04)	0	0	1	13.3	2	14.4	2	15.7	1	17.9	1	19.0	2*	20.3	10	13.7	1	10	18.8	1	12	14.7	2	12	19.8	1
10mm ²	(7/1.35)	0	0	2	16.0	2	17.5	2	19.1	2	20.5	2	22.0	2	24.4	12	14.7	2	12	19.8	1	16	16.9	2	16	21.6	2
16mm ²	(7/1.70)	0	0	2	17.7	2	19.4	3	21.3	2	22.3	2	24.6	3*	26.5	16	16.9	2	16	21.6	2	20	18.5	2	20	24.5	2
25mm ²	(19/1.35)	0	1	3	20.5	3	22.3	3	24.6	2	25.8	3	27.6	3	29.9	20	18.5	2	20	24.5	2	36	24.3	3	-	-	-
35mm ²	(19/1.53)	0	1	3	22.5	3	24.7	4	27.3	3	27.8	3	30	4*	32.7	24	19.9	2	-	-	-	50	27.9	4	-	-	-
50mm ²	(19/1.78)	1	1	3	25.6	4	28.3	4	32.9	3	30.9	4	33.7	4	39.5	36	24.3	3	-	-	-	-	-	-	-	-	-
70mm ²	(19/2.14)	1	2	-	-	4	32.6	5	38.1	-	-	4	39.2	5	44.7	50	27.9	4	-	-	-	-	-	-	-	-	-
95mm ²	(37/1.78)	2	2	-	-	5	36.4	5	42.3	-	-	5	43.1	5	50.4	-	-	-	-	-	-	-	-	-	-	-	-
120mm ²	(37/2.03)	2	3	-	-	5	42.0	6	48.7	-	-	5	48.9	6	56.9	-	-	-	-	-	-	-	-	-	-	-	-
150mm ²	(37/2.25)	2	3	-	-	6	46.3	6	53.8	-	-	6	54.3	6	61.9	-	-	-	-	-	-	-	-	-	-	-	-
185mm ²	(37/2.52)	3	3	-	-	6	51.6	7	60.2	-	-	6	59.8	7	69.4	-	-	-	-	-	-	-	-	-	-	-	-
240mm ²	(61/2.25)	3	4	-	-	7	58.9	8	69.5	-	-	7	68.0	8	78.4	-	-	-	-	-	-	-	-	-	-	-	-
300mm ²	(61/2.85)	4	4	-	-	8	65.3	9	77.8	-	-	7	74.5	9	88.9	-	-	-	-	-	-	-	-	-	-	-	-

* Denotes cable construction with stranded sector shaped conductors.

N.B. Cable diameter will vary with manufacturer. This chart to be used as a guide only, diameter must be checked to ensure gland performance.

Circular Multi-Core Control Cables				
COPPER / PVC / PVC				
No. of Cores	Unarmoured		SW Armoured	
	1.5mm ²	2.5mm ²	1.5mm ²	2.5mm ²
6	1	1	1	1
8	2	2	1	2
10	2	2	2	2
12	2	3	2	2
15	2	3	2	2
20	2	3	2	3
25	3	3	3	3
30	3	4	3	4
40	4	4	4	4
50	4	5	4	4

Unarmoured / Flexible Cable		
CABLE GLAND SIZE	CABLE DETAILS MINIMUM	CABLE DETAILS MAXIMUM
00 - 16ss	1.0	6.0
00 - 20ss	3.0	8.0
0 - 20s	7.0	11.0
1 - 20	11.5	14.5
2 - 25	14.5	20.5
3 - 32	20.5	26.5
4 - 40	26.5	35.5
5 - 50	34.5	43.5
6 - 63	43.5	56.0
7 - 75	56.0	65.0
8 - 82	65.0	74.0
9 - 90	73.0	82.0

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CABLE GLANDS / ADAPTORS / REDUCERS AND JUNCTION BOXES

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