

INTRODUCTION OF BRACO CABLE GLANDS

Braco Cable Glands are mechanical cable entry devices, which are constructed from metallic materials and are used throughout all industries in conjunction with cable and wiring used in the electrical control panels, instrumentation and automation systems.

Cable Glands may be used on all types of electrical power, control, instrumentation, data and telecommunications cables. They are used as a sealing and terminating device to ensure that the characteristics of the enclosure which the cable enters can be maintained adequately.

FUNCTIONS OF CABLE GLANDS

- Cable Glands may provide environmental protection by sealing on the outer cable sheath, excluding dust and moisture from the electrical or instrument enclosure.
- Cable Glands may facilitate earth continuity in the case of armoured cable when the cable gland has a metallic construction.
- Cable Glands may provide a holding force on the cable to ensure adequate levels of cable pull out resistance.
- Cable Glands may provide additional sealing on the part of the cable entering the enclosure, when a high degree of ingress protection is required.
- Cable Glands may provide additional environmental sealing at the cable entry point, maintaining the ingress protection rating of the enclosure with the selection of applicable accessories dedicated to performing this function.
- When used in hazardous areas they are required to maintain the level of protection of the equipment to which they are attached.

SELECTION GUIDELINES

There are many factors to consider when selecting cable glands for industrial installations. Neglecting to pay due attention to some of these factors may cause unnecessary anxiety at a future point in time when the equipment and cables have been delivered on site, but for example the cable glands have either been forgotten to be ordered or it is discovered that they are the incorrect type or size at the very point when they are needed the most. Good advice would be to allocated some value added planning and preparation time to the subject of cable gland selection so as to avoid the great inconvenience which is likely to occur at a critical point in time. In the event that a user or contractor is in possession of a cable schedule that requires a cable gland selection and sizing process to be carried out Braco products would be blissful to assist in carrying out this process.

While selecting cable glands the following aspects shall be carefully considered:

- Identify the type of cable to be used.
- Check the construction, size and material properties of the cable.

If the cable is armoured, verify the following:

- Check the type and material of the cable armour.
- Check the short circuit fault current rating of the cable armour.
- Check the actual diameter of the inner bedding.
- Check the actual diameter of the lead covering.
- Check the actual size of the overall cable diameter.
- Check the size and type of armour or braid.
- Check any special environmental requirements in relation to corrosion protection.
- Check whether any protective plating is required to be applied on the cable gland.
- Check the type and size of the cable entry hole in the matching electrical equipment.
- Check whether an entry thread seal is required.
- Check whether fixing accessories such as locknuts and serrated washers are required.
- Check whether earth tags are required.
- Check whether shrouds tags are required.

Though the information presented in Gland Selection Chart is intended to assist users to ensure that the correct cable gland is selected. It is the responsibility of the user to ensure that the cable gland selected is of the correct size and type to suit the type of cable being terminated.

While terminating cables and wires during the process of installation of electrical equipment this should be done by qualified and competent personnel in line with good engineering practice, observing safe electrical practices. It is also important that the correct cable entry device or cable gland is also important that the correct cable entry device or cable glands is selected to suit the cable being used. For instances using normal unarmoured cables, the cable would usually be fed through a cable entry device that has a sealing ring activated onto the cable outer sheath. The choice of cable glands to suit this unarmoured cable may need to take into account any vulnerability of the cable, may need to take into account any vulnerability of the cable, which may be especially critical if the cable is an instrument cable. Two factors which could affect the long term cable performance are the type and design of the cable gland sealing function, and the possibility of this being inadvertently or otherwise over tightened onto the cable sheath.

SELECTION OF BRACO GLANDS BASED ON POLYCAB CABLES 1100 VOLTS L.T.

Cable Construction Details			Single Comp.	Flange Type	Double Comp. / Flameproof	Single Comp. SIBG	
Size Sq.mm	Overall Dia / mm	U/Armour Dia/mm	Braco Ref.	Braco Ref.	Braco Ref.	SIBG Ref.	Rubber Ref.
1 CORE POWER CABLES							
4.0	11.0	6	3/8"	5	001S	1216	R1210
6.0	12.0	7	3/8"	5	001S	1216	R1211
10	13.0	8	1/2"	5	01S	1616	R1611
16	14.0	9	1/2"	5	01S	1616	R1613
25	15.0	10	1/2"	5	01S	1616	R1613
35	16.0	11	5/8"	5	01S	1616, 1619	R1615
50	18.0	13	3/4"	4	01	2119, 2125	R2116
70	20.0	14.5	1"	3	02	2125	R2120
95	21.0	16	1"	2	03	2125	R2120
120	22.0	17	1"	2	03	2125	R2120
150	24.0	19	1-1/8"	2	04	2925, 2932	R2925
185	26.0	21	1-1/4"	1	04	2932	R2925
240	29.0	24	1-1/4"	1	05	2932, 2938	R2927
300	32.0	27	1-3/8"	11	06	3638	R3631
400	36.0	31	1-1/2"	00	07	3638	R3635
500	40.0	34	1-3/4"	38	08	4251	R4238
630	44.0	28.5	1-3/4"	001	09	4251	R4242
800	48.0	42	2"	002	010	5451	R5446
1000	53.0	46	2-1/4"	003	011	5463	R5450
2 CORE POWER CABLES							
1.5	12.5	7.5	3/8"	5	001S	1216	R1211
2.5	13.5	8.5	1/2"	5	01S	1616	R1613
4.0	15.0	9.5	1/2"	5	01S	1616	R1613
6.0	16.0	10.5	5/8"	5	01S	1616, 1619	R1615
10	18.0	12.5	3/4"	4	01	2119, 2125	R2116
16	18.0	13	3/4"	4	01	2119, 2125	R2116
25	20.0	15	1"	3	02	2125	R2120
35	21.5	16.5	1"	2	03	2125	R2120
2 CORE POWER CABLES							
50	24.5	19.5	1-1/8"	2	04	2925, 2932	R2925
70	28.0	23	1-1/4"	1	05	2932, 2938	R2927
95	31.0	24	1-3/8"	11	06	2932	R2929
120	33.0	28	1-3/8"	0	06	3638	R3633
150	37.0	31	1-1/2"	00	07	3638	R3637
185	40.5	34.5	1-3/4"	38	08	4251	R4238
240	45.0	38	2"	002	09	4251	R4242
300	50.0	43	2-1/4"	002	010	5451	R5448
400	56.0	49	2-1/2"	003	011	6063	R6055
500	62.5	55	2-3/4"	0033	012	6063	R6060
3 CORE POWER CABLES							
1.5	12.5	7.5	3/8"	5	001S	1216	R1211
2.5	14.0	9	1/2"	5	01S	1616	R1613
4.0	15.5	10.5	5/8"	5	01S	1616, 1619	R1615
6.0	17.0	12	3/4"	4	01	1616, 1619	R1615
10	19.0	14	7/8"	4	02	2119, 2125	R2118
16	20.0	15	1"	3	02	2125	R2120
25	22.0	17	1"	2	03	2125	R2120
35	25.0	20	1-1/4"	1	04	2932, 2938	R2925
50	27.0	22	1-1/4"	1	05	2932, 2938	R2925
70	31.0	26	1-3/8"	11	06	2932	R2929
95	34.0	29	1-1/2"	0	07	3638	R3633
120	38.0	32.5	1-1/2"	00	08	3638	R3637
150	42.0	36	1-3/4"	38	09	4251	R4240
185	46.0	40	2"	002	09	4251	R4244
240	52.0	45.5	2-1/4"	003	010	5463	R5450
300	56.5	50	2-1/2"	003	011	6063	R6055
400	64.0	57	2-3/4"	0033	012	6675	R6662
500	72.0	64	3"	004	013	7882	R7870

SELECTION OF BRACO GLANDS BASED ON POLYCAB CABLES 1100 VOLTS L.T.

Cable Construction Details			Single Comp.	Flange Type	Double Comp. / Flameproof	Single Comp. SIBG	
Size Sq.mm	Overall Dia / mm	U/Armour Dia/mm	Braco Ref.	Braco Ref.	Braco Ref.	SIBG Ref.	Rubber Ref.
3.5 CORE POWER CABLES							
25	23.5	18.5	1-1/8"	2	04	2925, 2932	R2923
35	26.0	21	1-1/4"	1	04	2932	R2925
50	30.0	25	1-1/4"	1	05	2932, 2938	R2929
70	32.5	27.5	1-3/8"	11	06	3638	R3631
95	36.5	31	1-1/2"	00	07	3638	R3635
120	40.5	35	1-3/4"	38	08	4251	R4238
150	44.0	38	1-3/4"	001	09	4251	R4242
185	50.0	43	2-1/4"	002	010	5451	R5448
240	55.0	48	2-1/4"	003	011	6063	R6053
300	61.0	54	2-3/4"	0033	012	6063	R6060
400	68.0	60	3"	004	013S	7882	R7868
500	75.0	67	3-1/4"	004	013	7882	R7870
4 CORE POWER CABLES							
1.5	15.0	10	1/2"	5	01S	1616	R1613
2.5	16.5	11.5	3/4"	5	01	1616, 1619	R1615
4.0	18.0	13	3/4"	4	01	2119, 2125	R2116
6.0	19.5	14.5	7/8"	3	02	2119, 2125	R2118
10	20.0	15	1"	3	02	2125	R2120
16	23.0	18	1-1/8"	2	04	2925, 2932	R2923
25	24.0	19	1-1/8"	2	04	2925, 2932	R2925
35	27.0	22	1-1/4"	1	05	2932, 2938	R2925
50	31.0	25	1-3/8"	11	06	2932	R2929
70	35.0	29	1-1/2"	0	07	3638	R3635
95	38.0	32	1-1/2"	00	08	3638	R3637
120	42.0	36	1-3/4"	38	09	4251	R4240
150	46.0	40	2"	002	09	4251	R4244
185	51.0	44	2-1/4"	002	010	5451	R5448
240	58.0	51	2-1/2"	003	011	6063	R6058
300	66.0	59	2-3/4"	0033	012	6675	R6664
400	72.0	64	3"	004	013	7882	R7870
500	80.0	72	3-1/2"	005	014	8490	R8480

Cable Construction Details			Single Comp.	Flange Type	Double Comp. / Flameproof	Single Comp. SIBG	
Size Sq.mm	Overall Dia / mm	U/Armour Dia/mm	Braco Ref.	Braco Ref.	Braco Ref.	SIBG Ref.	Rubber Ref.
1.1 KV 1.5 SQ. MM (CONTROL CABLES)							
2	13.50	8.00	1/2"	5	01S	1616	R1613
3	14.00	8.50	1/2"	5	01S	1616	R1613
4	15.00	9.50	1/2"	5	01S	1616	R1613
5	15.50	10.00	5/8"	5	01S	1616, 1619	R1615
6	16.00	10.50	5/8"	5	01S	1616, 1619	R1615
7	16.50	11.00	3/4"	5	01	1616, 1619	R1615
10	19.00	13.00	7/8"	4	02	2119, 2125	R2118
12	19.50	15.00	7/8"	3	02	2119, 2125	R2118
14	20.00	15.00	1"	3	02	2125	R2120
16	21.00	16.00	1"	2	03	2125	R2120
19	22.00	17.00	1"	2	03	2125	R2120
24	25.00	20.00	1-1/4"	1	04	2932, 2938	R2925
30	26.50	21.50	1-1/4"	1	05	2932, 2938	R2925
37	28.00	23.00	1-1/4"	1	05	2932, 2938	R2927
61	35.00	29.50	1-1/2"	0	07	3638	R3635
1.1 KV 2.5 SQ. MM (CONTROL CABLES)							
2	14.50	9.00	1/2"	5	01S	1616	R1613
3	15.50	10.00	5/8"	5	01S	1616, 1619	R1615
4	16.50	11.00	3/4"	5	01	1616, 1619	R1615
5	17.50	12.00	3/4"	4	01	1616, 1619	R1615
6	18.50	13.00	7/8"	4	01	2119, 2125	R2118
7	18.50	13.00	7/8"	4	01	2119, 2125	R2118
10	21.00	16.00	1"	2	03	2125	R2120
12	22.00	17.00	1"	2	03	2125	R2120
14	23.00	18.00	1-1/8"	2	04	2925, 2932	R2923
16	24.00	19.00	1-1/8"	2	04	2925, 2932	R2925
19	25.00	20.00	1-1/4"	1	04	2932, 2938	R2925
24	29.00	24.00	1-1/4"	1	05	2932, 2938	R2927
30	30.50	25.00	1-3/8"	11	06	2932	R2929
37	33.00	27.50	1-3/8"	0	06	3638	R3633
61	41.00	35.50	1-3/4"	38	08	4251	R4238

SELECTION OF BRACO GLANDS BASED ON POLYCAB CABLES XLPE H.T.

Nominal Size Of Conductor	O.D. Flat / Round Armour	U/Armoured	Single Comp. H.D.		Flange Type	Double Comp. / Flameproof		Single Comp. SIBG Type	
			Braco Ref.	Braco Ref.		Braco Ref.	SIBG Ref.	Rubber Ref.	
			1.9 / 3.3 KV (E) & 3.3 / 3.3 KV (UE) HT XLPE THREE CORE						
35	F 37.0	32	1-1/2"	00	07	3638	R3637		
	R 40.5	32.5	1-3/4"	38	08 R2	4251	R4238		
50	F 39.5	34	1-3/4"	38	08	4251	R4238		
	R 42.5	34.5	1-3/4"	38	09 R2	4251	R4240		
70	F 44.0	38.5	1-3/4"	001	09	4251	R4242		
	R 47.0	38.5	2"	002	010 R2	5451	R5444		
95	F 47.5	42	2"	002	010	5451	R5446		
	R 51.5	42	2-1/4"	002	010 R2.5	5451	R5448		
120	F 51.5	45.5	2-1/4"	002	010	5451	R5448		
	R 55.5	46	2-1/2"	003	011 R2.5	6063	R6055		
150	F 54.5	48.5	2-1/4"	003	011	6063	R6053		
	R 58.5	48.5	2-1/2"	003	012 R2.5	6063	R6055		
185	F 59.0	52.5	2-1/2"	003	012	6063	R6055		
	R 63.0	52	2-3/4"	0033	012 R2.5	6675	R6662		
240	F 64.5	58.5	2-3/4"	0033	012	6675	R6662		
	R 68.0	57	3"	004	013S R2.5	7882	R7868		
300	F 70.0	63	3"	004	013S	7882	R7868		
	R 75.0	63	3-1/4"	004	013 R3.2	7882	R7870		
400	F 76.5	69	3-1/4"	005	014	7882	R7874		
	R 82.0	69	3-1/2"	005	014 R3.2	8940	R8480		
3.8 / 6.6 KV (E) HT XLPE SINGLE CORE									
35	F 21.0	16	1"	2	03	2125	R2120		
	R 22.5	16.5	1"	2	03	2125	R2120		
50	F 22.0	17	1"	2	03	2125	R2120		
	R 23.5	17.5	1-1/8"	2	04	2925, 2932	R2923		
70	F 24.0	19	1-1/8"	2	04	2925, 2932	R2925		
	R 25.5	19.5	1-1/4"	1	04	2932, 2938	R2925		
95	F 25.5	20.5	1-1/4"	1	04	2932, 2938	R2925		
	R 27.0	21	1-1/4"	1	05	2932, 2938	R2925		
120	F 27.0	22	1-1/4"	1	05	2932, 2938	R2925		
	R 29.0	23	1-1/4"	1	05	2932, 2938	R2927		
150	F 28.5	23.5	1-1/4"	1	05	2932, 2938	R2927		
	R 30.5	24	1-3/8"	11	06	2932	R2929		
185	F 31.0	25.5	1-3/8"	11	06	2932	R2929		
	R 32.5	26	1-3/8"	11	06	3638	R3631		
240	F 33.0	27.5	1-3/8"	0	06	3638	R3633		
	R 35.5	28	s	0	07 R2	3638	R3635		
300	F 36.0	30.5	1-1/2"	00	07	3638	R3635		
	R 38.0	30.5	1-1/2"	00	08 R2	3638	R3637		
400	F 40.0	34.5	1-3/4"	38	08	4251	R4238		
	R 42.5	36.5	1-3/4"	38	09 R2	4251	R4240		

Nominal Size Of Conductor	O.D. Flat / Round Armour	U/Armoured	Single Comp. H.D.		Flange Type	Double Comp. / Flameproof		Single Comp. SIBG Type	
			Braco Ref.	Braco Ref.		Braco Ref.	SIBG Ref.	Rubber Ref.	
			6.35 / 11 KV (E) HT XLPE SINGLE CORE						
150	F 30.5	25	1-3/8"	11	06	2932	R2929		
	R 32.5	26	1-3/8"	11	06	3638	R3631		
185	F 33.0	27.5	1-3/8"	0	06	3638	R3633		
	R 35.5	28	1-1/2"	0	07 R2	3638	R3635		
240	F 35.0	29.5	1-1/2"	0	07	3638	R3635		
	R 38.0	30.5	1-1/2"	00	08 R2	3638	R3637		
300	F 37.0	31.5	1-1/2"	00	07	3638	R3637		
	R 40.0	32.5	1-3/4"	38	08 R2	4251	R4238		
400	F 40.5	34.5	1-3/4"	38	08	4251	R4238		
	R 43.5	35.5	1-3/4"	38	09 R2	4251	R4242		
500	F 44.0	38	1-3/4"	001	09	4251	R4242		
	R 46.5	38.5	2"	002	010 R2	5451	R5444		
630	F 47.5	41.5	2"	002	010	5451	R5446		
	R 50.0	42	2-1/4"	002	010 R2	5451	R5448		
800	F 51.5	45.5	2-1/4"	002	010	5451	R5448		
	R 55.0	45.5	2-1/4"	003	011 R2.5	6063	R6053		
1000	F 56.5	50	2-1/2"	003	011	6063	R6055		
	R 60.5	50.5	2-3/4"	0033	012 R2.5	6063	R6058		
3.8 / 6.6 KV (E) HT XLPE SINGLE CORE									
35	F 21.0	16	1"	2	03	2125	R2120		
	R 22.5	16.5	1"	2	03	2125	R2120		
50	F 22.0	17	1"	2	03	2125	R2120		
	R 23.5	17.5	1-1/8"	2	04	2925, 2932	R2923		
70	F 24.0	19	1-1/8"	2	04	2925, 2932	R2925		
	R 25.5	19.5	1-1/4"	1	04	2932, 2938	R2925		
95	F 25.5	20.5	1-1/4"	1	04	2932, 2938	R2925		
	R 27.0	21	1-1/4"	1	05	2932, 2938	R2925		
120	F 27.0	22	1-1/4"	1	05	2932, 2938	R2925		
	R 29.0	23	1-1/4"	1	05	2932, 2938	R2927		
150	F 28.5	23.5	1-1/4"	1	05	2932, 2938	R2927		
	R 30.5	24	1-3/8"	11	06	2932	R2929		
185	F 31.0	25.5	1-3/8"	11	06	2932	R2929		
	R 32.5	26	1-3/8"	11	06	3638	R3631		
240	F 33.0	27.5	1-3/8"	0	06	3638	R3633		
	R 35.5	28	s	0	07 R2	3638	R3635		
300	F 36.0	30.5	1-1/2"	00	07	3638	R3635		
	R 38.0	30.5	1-1/2"	00	08 R2	3638	R3637		
400	F 40.0	34.5	1-3/4"	38	08	4251	R4238		
	R 42.5	36.5	1-3/4"	38	09 R2	4251	R4240		
6.35 / 11 KV (E) HT XLPE THREE CORE									
35	F 42.5	37	1-3/4"	38	09	4251	R4240		
	R 45.5	37	2"	002	09 R2	4251	R4242		

Nominal Size Of Conductor	O.D. Flat / Round Armour	U/Armoured	Single Comp. H.D.		Flange Type	Double Comp. / Flameproof		Single Comp. SIBG Type	
			Braco Ref.	Braco Ref.		Braco Ref.	SIBG Ref.	Rubber Ref.	
			3.8 / 6.6 KV (E) HT XLPE SINGLE CORE						
500	F 43.5	37.5	1-3/4"	38	09	4251	R4242		
	R 46.5	38.5	2"	002	010 R2	5451	R5444		
630	F 47.5	41.5	2"	002	010	5451	R5446		
	R 50.0	42	2-1/4"	002	010 R2	5451	R5448		
800	F 51.0	45	2-1/4"	002	010	5451	R5448		
	R 55.0	45.5	2-1/4"	003	011 R2.5	6063	R6053		
1000	F 56.5	50	2-1/2"	003	011	6063	R6055		
	R 60.5	50.5	2-3/4"	0033	012 R2.5	6063	R6058		
3.8 / 6.6 KV (E) HT XLPE THREE CORE									
35	F 40.0	34.5	1-3/4"	38	08	4251	R4238		
	R 43.0	35	1-3/4"	38	09 R2	4251	R4240		
50	F 42.5	37	1-3/4"	38	09	4251	R4240		
	R 45.5	37	2"	002	09 R2	4251	R4242		
70	F 47.0	41.5	2"	002	010	5451	R5444		
	R 49.5	41	2-1/4"	002	010 R2	5451	R5446		
95	F 50.5	45	2-1/4"	002	010	5451	R5448		
	R 54.0	44.5	2-1/4"	003	011 R2.5	6063	R6053		
120	F 55.0	49	2-1/4"	003	011	6063	R6053		
	R 58.5	48.5	2-1/2"	003	012 R2.5	6063	R6055		
150	F 58.0	51.5	2-1/2"	003	011	6063	R6055		
	R 61.0	51	2-3/4"	0033	012 R2.5	6063	R6060		
185	F 62.0	55.5	2-3/4"	0033	012	6063	R6060		
	R 66.0	55	2-3/4"	0033	012 R2.5	6675	R6664		
240	F 67.5	61	2-3/4"	004	013S	7882	R7866		
	R 73.0	61	3"	004	013 R3.2	7882	R7870		
300	F 73.5	66.5	3"	004	013	7882	R7870		
	R 78.5	66.5	3-1/4"	005	014 R3.2	7882	R7874		
400	F 82.0	74	3-1/2"	005	014	8940	R8480		
	R 89.0	74	4"	006	015 R4	8940	R8484		
6.35 / 11 KV (UE) HT XLPE SINGLE CORE									
35	F 23.0	18	1-1/8"	2	04	2925, 2932	R2923		
	R 24.5	18.5	1-1/8"	2	04	2925, 2932	R2925		
50	F 24.0	19	1-1/8"	2	04	2925, 2932	R2925		
	R 25.5	19.5	1-1/4"	1	04	2932, 2938	R2925		
70	F 25.5	20.5	1-1/4"	1	04	2932, 2938	R2925		
	R 27.5	21.5	1-1/4"	1	05	2932, 2938	R2925		
95	F 27.5	22.5	1-1/4"	1	05	2932, 2938	R2925		
	R 29.0	23	1-1/4"	1	05	2932, 2938	R2927		
120	F 29.0	24	1-1/4"	1	05	2932, 2938	R2927		
	R 31.0	24.5	1-3/8"	11	06	2932	R2929		

Nominal Size Of Conductor	O.D. Flat / Round Armour	U/Armoured	Single Comp. H.D.		Flange Type	Double Comp. / Flameproof		Single Comp. SIBG Type	
			Braco Ref.	Braco Ref.		Braco Ref.	SIBG Ref.	Rubber Ref.	
			6.35 / 11 KV (E) HT XLPE THREE CORE						
50	F 46.0	40.5	2"	002	09	4251	R4244		
	R 49.5	40	2-1/4"	002	010 R2.5	5451	R5446		
70	F 49.0	43.5	2-1/4"	002	010	5451	R5446		
	R 52.5	43	2-1/4"	003	010 R2.5	5463	R5450		
95	F 53.0	47	2-1/4"	003	011	5463	R5450		
	R 56.5	46.5	2-1/2"	003	011 R2.5	6063	R6055		
120	F 56.0	49.5	2-1/2"	003	011	6063	R6055		
	R 59.5	49.5	2-1/2"	003	012 R2.5	6063	R6055		
150	F 59.0	52.5	2-1/2"	003	012	6063	R6055		
	R 63.0	52	2-3/4"	0033	012 R2.5	6675	R6662		
185	F 63.0	56.5	2-3/4"	0033	012	6675	R6662		
	R 68.0	56	3"	004	013S R3.2	7882	R7868		
240	F 68.0	61	3"	004	013S	7882	R7868		
	R 73.0	61	3"	004	013 R3.2	7882	R7870		
300	F 73.0	65.5	3"	004	013	7882	R7870		
	R 78.0	65	3-1/4"	005	014 R3.2	7882	R7874		
400	F 80.0	72	3-1/2"	005	014	8940	R8476		
	R 86.5	71.5	4"	006	015 R4	8940	R8480		
11 - 11 / 11 KV (UE) HT XLPE SINGLE CORE									
70	F 30.0	24.5	1-1/4"	1	05	2932, 2938	R2929		
	R 31.5	25	1-3/8"	11					

SELECTION OF BRACO GLANDS BASED ON POLYCAB CABLES XLPE H.T.

Nominal Size Of Conductor	O.D. Flat / Round Armour	U/Armoured	Single Comp. H.D.		Double Comp. / Flameproof	Single Comp. SIBG Type	
			Braco Ref.	Flange Type		Braco Ref.	SIBG Ref.
11 - 11 / 11 KV (UE) HT XLPE THREE CORE							
70	F 58.0	51.5	2-1/2"	003	011	6063	R6055
	R 61.5	50.5	2-3/4"	0033	012 R2.5	6063	R6060
95	F 62.0	55.5	2-3/4"	0033	012	6063	R6060
	R 66.5	54.5	2-3/4"	0033	013S R3.2	7882	R7866
120	F 65.0	58.5	2-3/4"	0033	012	6675	R6662
	R 70.0	58	3"	004	013S R3.2	7882	R7868
150	F 68.5	61.5	3"	004	013S	7882	R7868
	R 73.0	61	3"	004	013 R3.2	7882	R7870
185	F 71.5	64	3"	004	013	7882	R7870
	R 77.0	64	3-1/4"	005	014 R3.2	7882	R7874
240	F 77.0	69	3-1/4"	005	014	7882	R7874
	R 82.0	67	3-1/2"	005	014 R3.2	8940	R8480
300	F 81.5	73	3-1/2"	005	014	8940	R8480
	R 88.0	73	4"	006	015 R4	8940	R8484
400	F 88.0	79	4"	006	015	8940	R8484
	R 94.5	79	4"	006	016 R4	9210	R9292
12.7 / 22 KV (E) HT XLPE SINGLE CORE							
95	F 33.0	28	1-3/8"	0	06	3638	R3633
	R 36.0	28.5	1-1/2"	00	07 R2	3638	R3635
120	F 35.0	30	1-1/2"	0	07	3638	R3635
	R 37.5	30	1-1/2"	00	08 R2	3638	R3637
150	F 36.0	31	1-1/2"	00	07	3638	R3635
	R 39.0	31.5	1-3/4"	38	08 R2	4251	R4238
185	F 38.0	33	1-1/2"	00	08	3638	R3637
	R 41.0	33	1-3/4"	38	08 R2	4251	R4238
240	F 40.5	35.5	1-3/4"	38	08	4251	R4238
	R 43.0	35	1-3/4"	38	09 R2	4251	R4240
300	F 43.0	37.5	1-3/4"	38	09	4251	R4240
	R 45.0	37	2"	002	09 R2	4251	R4242
400	F 47.0	41.5	2"	002	010	5451	R5444
	R 49.0	40.5	2-1/4"	002	010 R2	5451	R5446
500	F 50.0	44.5	2-1/4"	002	010	5451	R5448
	R 53.5	44	2-1/4"	003	011 R2.5	5463	R5450
630	F 54.0	48	2-1/4"	003	011	6063	R6053
	R 57.0	47.5	2-1/2"	003	011 R2.5	6063	R6055
800	F 58.0	52	2-1/2"	003	011	6063	R6055
	R 61.0	51	2-3/4"	0033	012 R2.5	6063	R6060
1000	F 62.5	56	2-3/4"	0033	012	6063	R6060
	R 66.0	55	2-3/4"	0033	012 R2.5	6675	R6664

Nominal Size Of Conductor	O.D. Flat / Round Armour	U/Armoured	Single Comp. H.D.		Double Comp. / Flameproof	Single Comp. SIBG Type	
			Braco Ref.	Flange Type		Braco Ref.	SIBG Ref.
12.7 / 22 KV (E) HT XLPE THREE CORE							
95	F 64.0	57.5	2-3/4"	0033	012	6675	R6662
	R 69.0	57	3"	004	013S R3.2	7882	R7868
120	F 67.5	60.5	2-3/4"	004	013S	7882	R7866
	R 72.0	60	3"	004	013 R3.2	7882	R7870
150	F 70.5	63	3"	004	013S	7882	R7868
	R 75.5	63.5	3-1/4"	005	013 R3.2	7882	R7874
185	F 74.0	66.5	3"	004	013	7882	R7870
	R 79.0	66	3-1/4"	005	014 R3.2	7882	R7874
240	F 79.0	71	3-1/4"	005	014	7882	R7874
	R 85.5	70.5	3-1/2"	006	015 R4	8940	R8480
300	F 83.5	75	3-1/2"	006	015	8940	R8480
	R 90.0	75	4"	006	015 R4	9210	R9288
400	F 90.5	82	4"	006	015	9210	R9288
	R 96.5	81.5	4"	006	016 R4	9210	R9292
19 / 33 KV (E) HT XLPE SINGLE CORE							
95	F 39.0	34	1-3/4"	38	08	4251	R4238
	R 41.5	33.5	1-3/4"	38	09 R2	4251	R4238
120	F 41.0	35.5	1-3/4"	38	08	4251	R4238
	R 43.0	35	1-3/4"	38	09 R2	4251	R4240
150	F 42.0	36.5	1-3/4"	38	09	4251	R4240
	R 44.5	36.5	2"	002	09 R2	4251	R4242
185	F 44.5	39	2"	002	09	4251	R4242
	R 47.0	38.5	2"	002	010 R2	5451	R5444
240	F 47.0	41.5	2"	002	010	5451	R5444
	R 49.5	41	2-1/4"	002	010 R2	5451	R5446
300	F 49.0	43.5	2-1/4"	002	010	5451	R5446
	R 52.0	42.5	2-1/4"	003	010 R2	5463	R5450
400	F 52.5	46	2-1/4"	003	010	5463	R5450
	R 55.0	45.5	2-1/4"	003	011 R2	6063	R6053
500	F 56.0	49.5	2-1/2"	003	011	6063	R6055
	R 60.0	50	2-3/4"	0033	012 R2.5	6063	R6058
630	F 60.0	53.5	2-3/4"	0033	012	6063	R6058
	R 63.0	52	2-3/4"	0033	012 R2.5	6675	R6662
800	F 64.0	57.5	2-3/4"	0033	012	6675	R6662
	R 67.0	56	2-3/4"	0033	013S R2.5	7882	R7866
1000	F 69.0	62.5	3"	004	013S	7882	R7868
	R 72.5	60.5	3"	004	013 R2.5	7882	R7870

Nominal Size Of Conductor	O.D. Flat / Round Armour	U/Armoured	Single Comp. H.D.		Double Comp. / Flameproof	Single Comp. SIBG Type	
			Braco Ref.	Flange Type		Braco Ref.	SIBG Ref.
19 / 33 KV (E) HT XLPE THREE CORE							
95	F 77.0	69	3-1/4"	005	014	7882	R7874
	R 82.0	69	3-1/2"	005	014 R3.2	8940	R8480
120	F 80.5	72.5	3-1/2"	005	014	8940	R8480
	R 86.5	71.5	4"	006	015 R4	8940	R8480
150	F 83.5	75	3-1/2"	006	015	8940	R8480
	R 90.0	75	4"	006	015 R4	9210	R9288
185	F 87.0	78.5	4"	006	015	8940	R8480
	R 93.0	78	4"	006	016 R4	9210	R9288
240	F 91.5	83	4"	006	015	9210	R9288
	R 98.0	83	4"	006	016 R4	1011	R1094
300	F 96.0	87.5	4"	006	016	9210	R9292
	R 102.0	87	4-1/2"	007	017 R4	1011	R1094
400	F 102.5	94	4-1/2"	007	017	1011	R1094
	R 109.0	94	5"	008	017 R4	1525	R1502
33 / 33 KV (E) HT XLPE SINGLE CORE							
120	F 43.0	37.5	1-3/4"	38	09	4251	R4240
	R 45.5	37.5	2"	002	09 R2	4251	R4242
150	F 44.5	39	2"	002	09	4251	R4242
	R 47.5	39	2"	002	010 R2	5451	R5446
185	F 46.5	41	2"	002	010	5451	R5444
	R 49.5	41	2-1/4"	002	010 R2	5451	R5446
240	F 49.5	44	2-1/4"	002	010	5451	R5446
	R 53.0	43.5	2-1/4"	003	011 R2.5	5463	R5450
300	F 51.5	46	2-1/4"	002	010	5451	R5448
	R 55.0	45.5	2-1/4"	003	011 R2.5	6063	R6053
400	F 55.0	49	2-1/4"	003	011	6063	R6053
	R 58.5	48.5	2-1/2"	003	012 R2.5	6063	R6055
500	F 58.0	52	2-1/2"	003	011	6063	R6055
	R 62.0	52	2-3/4"	0033	012 R2.5	6063	R6060
630	F 61.5	55	2-3/4"	0033	012	6063	R6060
	R 65.5	54.5	2-3/4"	0033	012 R2.5	6675	R6662
800	F 66.0	59.5	2-3/4"	0033	012	6675	R6664
	R 71.0	59	3"	004	013S R3.2	7882	R7868
1000	F 71.0	64	3"	004	013S	7882	R7868
	R 76.0	64	3-1/4"	005	013 R3.2	7882	R7874

Nominal Size Of Conductor	O.D. Flat / Round Armour	U/Armoured	Single Comp. H.D.		Double Comp. / Flameproof	Single Comp. SIBG Type	
			Braco Ref.	Flange Type		Braco Ref.	SIBG Ref.
33 / 33 KV (E) HT XLPE THREE CORE							
120	F 83.5	75	3-1/2"	006	015	8940	R8480
	R 90.0	75	4"	006	015 R4	9210	R9288
150	F 86.5	78	4"	006	015	8940	R8480
	R 93.0	78	4"	006	016 R4	9210	R9288
185	F 89.5	81	4"	006	015	8940	R8484
	R 96.0	81	4"	006	016 R4	9210	R9292
240	F 94.5	86	4"	006	016	9210	R9292
	R 101.0	86	4-1/2"	007	016 R4	1011	R1094
300	F 98.5	90	4-1/2"	007	016	1011	R1094
	R 105.0	90	4-1/2"	007	017 R4	1525	R1500
400	F 105.0	96	4-1/2"	007	017	1525	R1500
	R 112.0	97	5"	008	017 R4	1525	R1506

NOTE

- The Selection above is for reference purpose only, the same is based on Polycab make latest ISI Cables.
- For the perfect size selection please check the actual construction details of Cable i.e. Overall Diameter, Under Armour Diameter & Type of Armour Flat or Round & Its dimension.
- Select the material of glands other then brass for Atmosphere Protection & Type ingress protection required.