

# HEAT SHRINK FLAME RETARDANT LOW VOLTAGE CABLE BREAKOUT



Insulcore-Low voltage provides a strong and permanent environmental seal to the crutch of 2,3,4,5,6 and 7 core PVC, XLPE Rubber and PILC cables upto 3.3 kV rated voltage.

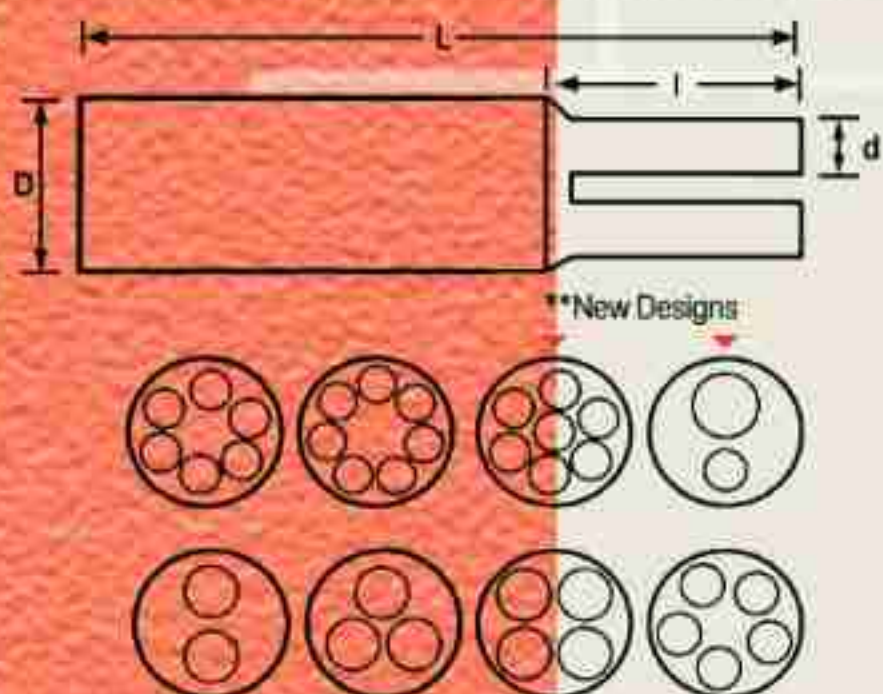
The Breakouts are Manufactured form high quality cross linked polyolefin material that offer an exceptional insulation and long term service reliability.

The Breakouts are internally coated with hot melt adhesive. These breakouts when installed in position provide 100% water / moisture proofness to the system according to IP 68 (Ingress Protection)

Customised dimensions of Breakouts available on request.

Technical Specification		
PROPERTIES	VALUE	STANDARD
Tensile Strength	12 N/mm <sup>2</sup> (Mpa) (min.)	ASTM D638
Ultimate Elongation	350% (min.)	ASTM D638
Density	1.05 ± 0.2 gm/cm <sup>3</sup>	ASTM D792
Hardness	45 ± 10 Shore D	ASTM D2240
Water Absorption	0.2% (max.)	ASTM D570
Accelerated Ageing	(120°C for 500 hrs.)	ASTM D2671
Tensile Strength	11 N/mm <sup>2</sup> (Mpa) (min.)	ASTM D638
Ultimate Elongation	300% (min.)	ASTM D638
Low Temp. Flexibility	No Cracking	ASTM D2671
(-40°C for 4 hrs.)		
Heat Shock (250°C for 30 min.)	No cracking or flowing	ESI 09-11
Flammability	Pass	ASTM D267
Shrink Temperature	125°C	IEC 216
Continuous Temp. Limit	-40 to +100°C	IEC 216
Dielectric Strength	12kV/mm. (min)	ASTM D149
Volume Resistivity	1 x 10 <sup>14</sup> Ohm.cm (min)	ASTM D257
Dielectric Constant	5 (max.)	ASTM D150

Technical Qualification Report No.: QR 1012



Selection Chart												All dimensions are in mm	
Code No.	No. of Core	Ds		d		L		l		Tb	Tc		
		min	max	min	max	min	min	min	max	f	f		
											±10%	±10%	
GFPPC1-1030*	1	60	30	45	10	70	125	50	50	3.5	4.5		
LV2GFBB-0308 S	2	22	8	10	3	70	85	14	20	2.2	2.0		
LV2GFBB-0308	2	28	8	12	3	70	85	15	20	2.2	2.0		
LV2GFBB-0410	2	32	10	14	4	70	85	15	20	2.2	2.0		
LV2GFBB-0410 A	2	42	11	14	4	65	85	14	20	2.2	2.0		
LV2GFBB-0410 L*	2	34	10	14	4	77	107	27	42	3.0	3.0		
LV2GFB-0610 L*	2	30	8	19	6	135	165	50	60	2.5	2.0		
LV2GFBB-0615*	2	45	15	18	5.5	90	110	25	43	3.0	3.5		
LV2GFBB-0720	2	60	20	24	7	95	120	25	34	3.0	2.5		
LV2GFBB-0720 A	2	70	30	30	8	95	120	25	34	3.0	2.5		
LV2GFBB-1565	2	125	65	45	15	100	138	40	58	2.2	2.0		
LV2GFBB-1565 A	2	156	65	50	15	100	138	40	58	2.2	2.0		
LV2GFBB-2075	2	170	75	35	20	145	205	45	80	3.1	2.9		
LV2GFBB-24135	2	235	135	60	24	200	250	60	83	2.8	2.5		
LV2GFBB-55175	2	250	175	85	55	160	200	55	66	3.5	3.5		
LV2GFBB-55175 A	2	355	180	155	60	150	200	50	66	3.5	3.5		
LV3GFBB-0309	3	32	9	12	3	85	100	15	24	2.0	1.7		
LV3GFBB-0413	3	36	14	15	4	80	100	15	21	2.2	2.0		
LV3GFBB-0820	3	60	20	25	8	160	188	45	62	3.7	2.8		
LV3GFBB-0820 A	3	70	20	27	8	155	188	40	62	3.7	2.8		
LV3GFBB-1330	3	80	30	36	13	185	215	60	75	3.9	3.1		
LV3GFBB-1330 A	3	100	30	39	13	185	215	60	75	3.9	3.1		
LV3GFBB-2145	3	110	45	55	20	200	235	70	88	4.3	3.0		
LV3GFBB-2145 A	3	125	45	57	21	190	230	65	90	4.6	3.4		
LV3GFBB-2755	3	140	56	68	28	215	250	80	90	4.6	3.4		
LV3GFBB-2755 A	3	180	58	68	29	200	250	75	90	4.6	3.4		
LV3GFBB-3060	3	200	60	70	30	190	225	70	85	4.6	3.4		
LV4GFBB-0312S	4	30	12	10	3	80	100	15	25	2.4	1.7		
LV4GFBB-0312	4	40	12	12	3	80	100	15	25	2.4	1.7		
LV4GFBB-0415	4	41	16	14	4	80	100	15	23	2.4	1.7		
LV4GFBB-0415 A	4	50	17	17	4	75	95	15	23	2.4	1.7		
LV4GFBB-0821	4	57	26	20	7	140	170	32	48	3.5	2.5		
LV4GFBB-0825 N	4	70	25	25	8	160	190	35	51	3.5	2.3		
LV4GFBB-1925	4	70	30	25	9	155	190	35	48	3.7	2.6		
LV4GFBB-1130	4	80	31	31	10	150	190	28	47	3.7	2.6		
LV4GFBB-1334	4	90	42	35	13	170	210	35	52	3.7	2.6		
LV4GFBB-1334 A	4	110	44	35	13	170	208	40	51	3.7	2.6		
LV4GFBB-2454	4	125	44	40	14	170	208	30	51	3.7	2.6		
LV4GFBB-4080*	4	180	80	70	40	200	260	75	95	3.7	2.8		
LV5GFBB-0308	5	32	8	10	3	95	115	22	28	2.1	1.7		
LV5GFBB-0311*	5	32	11	10	3	55	75	15	20	2.3	2.0		
LV5GFBB-0415	5	50	16	15	4	85	110	21	33	3.2	2.6		
LV5GFBB-04215 A	5	57	17	15	4	80	110	21	33	3.2	2.6		
LV5GFBB-0832	5	80	32	26	8	155	190	55	65	3.3	2.8		
LV5GFBB-0832 A	5	100	33	32	8	145	190	50	65	3.3	2.8		
LV6GFBB-0412	6	44	12	13	4	55	82	20	30	2.2	2.0		
LV6GFBB-0737	6	85	37	25	7	100	140	30	46	3.2	2.6		
LV7GFBB-0737	7	95	37	26	7	100	140	40	55	2.7	2.6		
LV7GFBB-1845**	7	118	46	35	19	110	145	32	40	4.3	3.0		

Code No.	No. of Core	Ds		d1		d2		L		l1		l2		Tb	Tc1	Tc2
		min	max	min	max	min	max	min	min	min	min	min	min	f	f	f
															±10%	±10%
LV2GFBB-61820**	2	65	20	44	18	33	6	105	124	28	40	28	40	4.0	3.1	3.0

D,d : Internal Diameter | s : as supplied | f : after free recovery | Tb, Tc : Thickness of body & core  
\*New sizes