

Medium Voltage Breakouts



MV cable breakouts are electrically insulating, anti-tracking, UV resistant, weather proof & flame retardant internally coated with a mastic sealant & covered with release paper.

The finger configuration is designed specifically to provide insulation & sealing over the cable 'crutch', as an integral part of 3 core cable terminations up to 36kV.

Moulded from a thermally stabilised cross linked blend of polyolefins & a compatible grade of synthetic rubber. The basic resin is mixed with chemical additives offering resistance to tracking-erosion, fire, oxidation, ozone & other environmental effects.

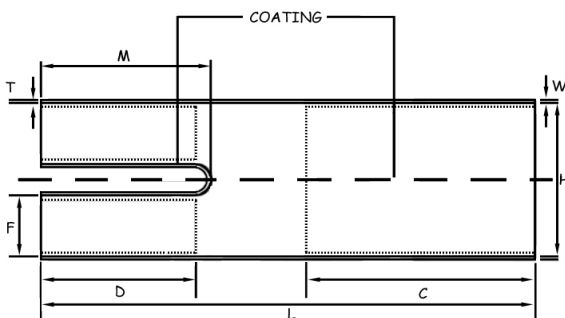
Cable sealing is accomplished by an internal waterproof & electrically insulating butyl rubber based mastic.

Dimensions

Model	H		F		O	L	M	N	C	W	T
	E	S	E	S	S	S	S	S	E	S	S
IXL 310	60	22	24	8	40	185	45	115	35	3.75	3.00
IXL 320	80	33	36	16	52	210	50	105	50	4.00	3.25
IXL 325	95	33	36	16	52	210	50	105	50	4.00	3.25
IXL 330	110	47	48	20	72	225	75	112	50	4.80	3.00
IXL 335	125	47	55	20	72	250	75	112	50	4.25	3.50
IXL 340	140	54	62	27	75	240	65	90	50	4.00	2.50

E- DIMENSION WHEN EXPANDED

S- DIMENSION WHEN FULLY RECOVERED



NOTES:

- All dimensions are in mm
- Tolerances:

THICKNESS	W,T	+/-10%
LENGTHS	N,C,L	+/-10%
DIAMETERS	H,O	+/-5%
ANGLES	A	+/-5%

Product control	Frequency	Requirement	Control Method
Visual	100% daily	Good & free from defects	internal
Dimensions	5 samples daily	As per Eng. drawing	internal
Tensile strength	5 samples daily	min 7 Mpa(N/mm ²)	ASTM D-638
Ultimate elongation	5 samples daily	min 300%	ASTM D-638
Hardness	Daily	min 32 Shore D	internal
Tensile strength after Thermal Ageing (168hrs @ 120°C)	Qualification	min 6Mpa (N/mm ²)	ISO-188
Ultimate Elongation after Thermal Ageing (168hrs @ 120°C)	Qualification	min 250%	ISO-188
Water Absorption	Qualification	max 1%	ISO-62
Dielectric strength	Qualification	min 12kV/mm	IEC-273
Dielectric constant	Qualification	5 max	IEC-150
Volume resistivity	Qualification	min 10 ¹⁴ Ohm.cm	IEC-93
Resistance to tracking	Qualification	3.25kV (1hr min)	ASTM D-2303
Flame retardance	Qualification	Non burning	ESI-09-13
Raw Material Control			
Tensile strength	compounding	min 7Mpa (N/mm ²)	ASTM D-412
Ultimate elongation	compounding	min 300%	ASTM D-412
Hardness	compounding	min 32 Shore D	ASTM D-638

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Conductive Breakouts



Electrically semi-conductive, UV resistant & weather proof breakouts, with an internal mastic coating & release paper.

The finger configuration is designed specifically to provide insulation & sealing over the cable 'crutch', as an integral part of 3 core cable terminations & cable joints up to 36kV.

Moulded from a thermally stabilised cross linked blend of polyolefins & a compatible grade of synthetic rubber. The basic resin is mixed with chemical additives offering resistance to UV radiation, oxidation, ozone & other environmental effects. The Primary additive of Carbon Black adds the required conductivity to the material.

Cable sealing is accomplished by an internal waterproof & electrically insulating butyl rubber based mastic.

Model	Body Diameter		Finger Diameter		Total Length	Finger Length
	E	S	E	S	S	S
IXL 310 CON	60	22	24	8	185	45
IXL 320 CON	80	33	36	16	210	50
IXL 325 CON	95	33	36	16	210	50
IXL 330 CON	110	47	48	20	225	75
IXL 335 CON	125	47	55	20	250	75
IXL 340 CON	140	54	62	27	240	65

E- DIMENSION WHEN EXPANDED

S- DIMENSION WHEN FULLY RECOVERED

Product control	Frequency	Requirement	Control Method
Visual	100% daily	Good & free from defects	internal
Dimensions	5 samples daily	As per Eng. drawing	internal
Tensile strength	5 samples daily	min 12 Mpa(N/mm ²)	ASTM D-638
Ultimate elongation	5 samples daily	min 300%	ASTM D-638
Hardness	Daily	min 38 Shore D	internal
Tensile strength after Thermal Ageing (168hrs @ 120°C)	Qualification	min 10Mpa (N/mm ²)	ISO-188
Ultimate Elongation after Thermal Ageing (168hrs @ 120°C)	Qualification	min 250%	ISO-188
Water Absorption	Qualification	max 1%	ISO-62
Volume resistivity	Qualification	min 2 x 10 ⁴ Ohm.cm	IEC-93
Raw Material			
Carbon Black content	compounding	Min 2%	BS 2 782
Tensile strength	compounding	min 12Mpa (N/mm ²)	ASTM D-638
Ultimate elongation	compounding	min 300%	ASTM D-638
Hardness	compounding	min 38 Shore D	ASTM D-2240

NOTES:

- All dimensions are in mm
- Tolerances:
 - THICKNESS +/-10%
 - LENGTHS +/-10%
 - DIAMETERS +/-5%
 - ANGLES +/-5%

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