

MV Rain Sheds



Typical Applications:

Single sheds are used for extending the creepage path for the medium voltage cable termination, thereby saving the length of the cable and reducing the size of the switch gear cabinet required for this purpose.

The rubber based red sealant seals the MV shed to the cable insulation.

Triple sheds are used primarily to protect the crutch of the PILC-3 core cable while installing and connecting an outdoor termination by restricting the individual cable cores from over bending away from the crutch. They also provide additional creepage extension.

Materials:

The base material of the MV sheds is a thermally stabilised, cross linked blend of polyolefins and a compatible grade of synthetic rubber. The basic resin is mixed with chemical additives offering protection against fire, oxidation, ozone and other environmental effects. The sealant is a rubber based mastic which is waterproof, electrical insulating and anti-tracking.

MODEL SINGLE	H		O	L	W	T	C	A
	S	E	S	S	S	S	S	S
IXL 215	12	37	90	45	3.50	2.50	20	15°
IXL 220	16	37	90	25	2.50	xx	15	10°
IXL 225	16	57	115	55	4.00	3.00	25	25°
IXL 230	25	57	125	30	3.00	xx	25	10°
IXL 240	35	75	145	35	3.00	xx	25	10°
IXL 245	35	100	200	90	4.00	4.00	40	25°

MODEL TRIPLE	L ₃	H		M	N	O
	nom	S	E	S	S	S
IXL 270	135	15	35	26	35	24
IXL 280	165	23	45	28	45	24
IXL 290	165	29	60	28	45	24

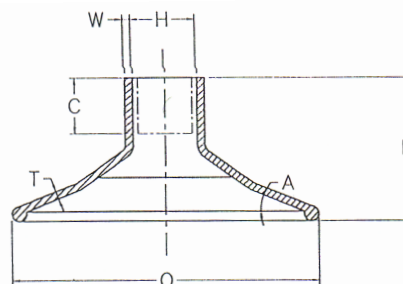
E- DIMENSION WHEN EXPANDED

S- DIMENSION WHEN FULLY RECOVERED

NOTES:

- All dimensions are in mm
- Tolerances:

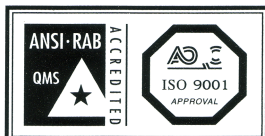
THICKNESS	W,T	+/-10%
LENGTHS	N,C,L	+/-10%
DIAMETERS	H,O	+/-5%
ANGLES	A	+/-5%



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Product control	Frequency	Requirement	Control Method
Visual	100% daily	Good and 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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