



XOREX

Silicone Equipment

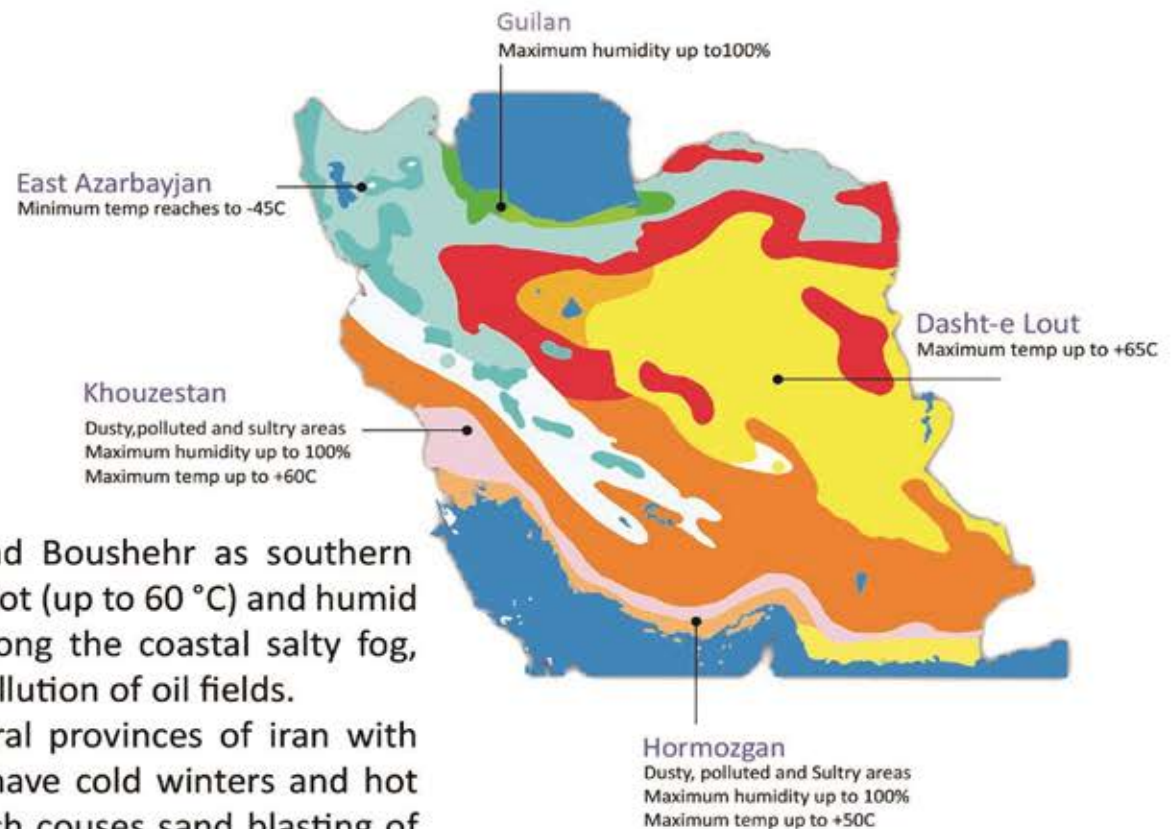




Introduction

Relying on 20 years experience of its engineering team in manufacturing variety of specialized rubber components , in 2002, BSA started producing silicone insulators in conformity with IEC standards.

Today, after successful production of these products for 10 years and by considering different climates of Iran as a country that our silicone insulators are installed in, we can say with confidence quality of our silicon insulators has been proven to be reliable in the harshest invironments.



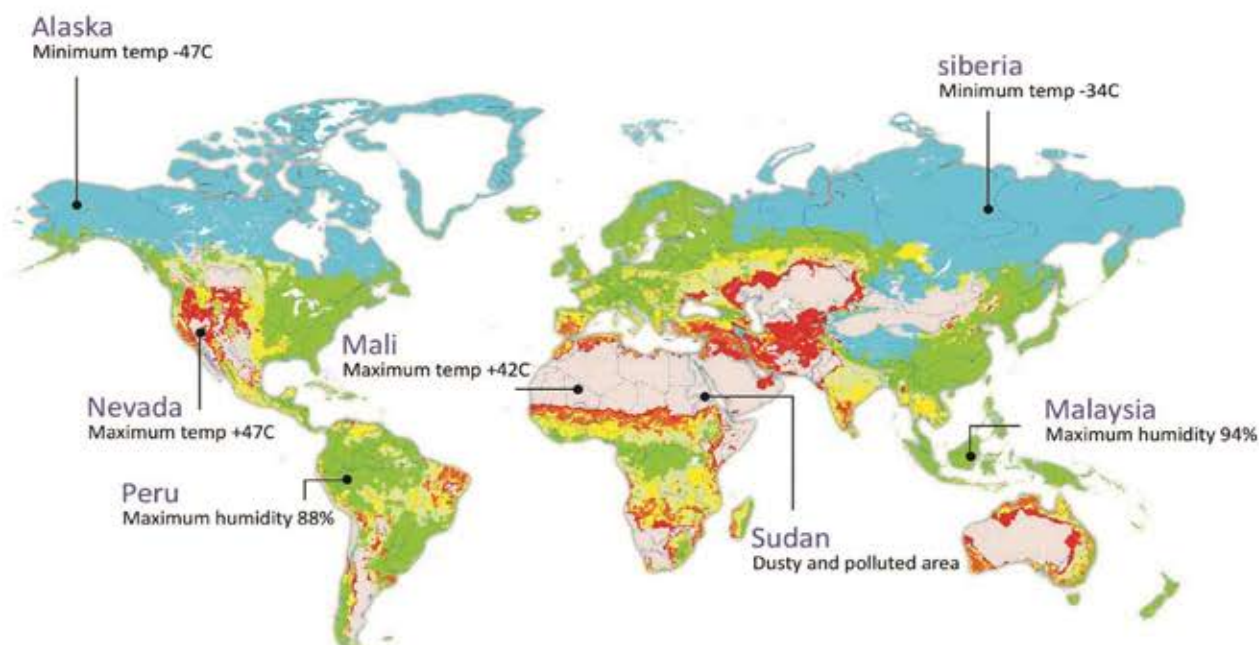
Khuzestan , Hormozgan and Boushehr as southern provinces of Iran that have very hot (up to 60 °C) and humid (up to 100 percent) weather along the coastal salty fog, dust and sometimes chemical pollution of oil fields.

Yazd, Isfahan and Qom as central provinces of Iran with characteristics of desert lands, have cold winters and hot summers with sandy winds which causes sand blasting of polymer surface in insulators.

Extraordinary humid weather of Mazandaran and Guilan (south of Caspian sea) increases the risk of seaweed growth on the polymer.

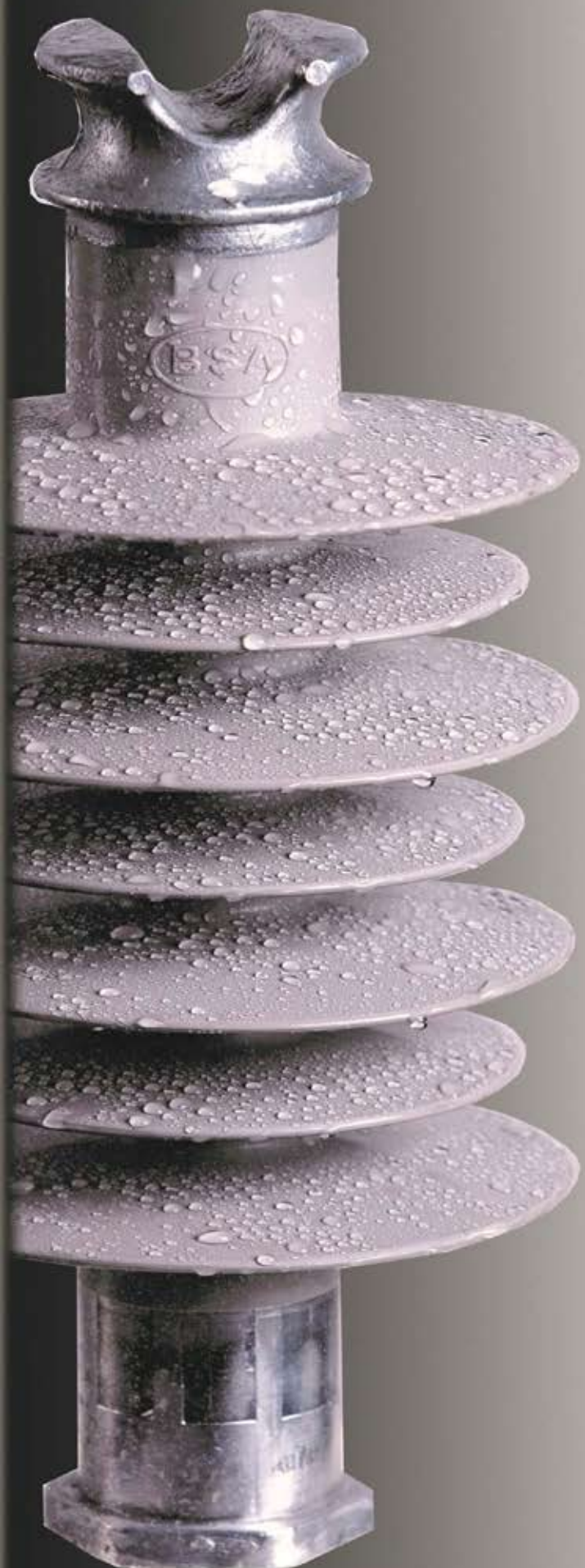
Northwest provinces of Iran such as Ardebil and Azarbaijan have freezing winters in which the coldness of mountainous areas can reach -45 °C.

BSA Silicon Insulators have proven their efficiency over all these invironments. Also in Cuba, the mechanical strength of BSA insulators has been examined under the well known tornados of that country since 2008.





SILICONE INSULATORS



Silicone insulators are hard core insulations which insulate power transmission and distribution lines as well as holding wires on the pylons.

This insulators are produced in according to IEC and ANCI satandards and have uniqe properties like hydrophopcity, Recovery, and light weight. Also they are unbreakable that makes them popular in order to use in power lines over the past few years.



SILICONE
INSULATORS

[Suspension And Tension Type]

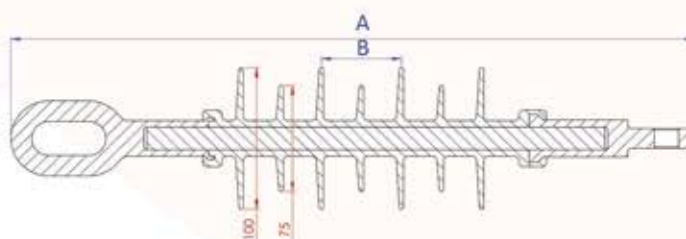
Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin






Fitting: Steel Forged (Hot Dip Galvanized)

SML: 70 kN






RML: 35 kN



	Product Model	Rated Voltage	Number of Sheds	Creepage Distance (mm)	Arcing Distance (mm)	Max Tensile Load (kN)	A (mm)	B (mm)	Weight (kg)	Power Frequency Withstand (kV)				Lightning Impulse Flashover (kV)
										Wet	Dry	Neg	Pos	
S/670/7	24	7	670	280	70	480	56	1.260	90	100	200	187		
S/800/9	24-36	9	800	330	70	530	56	1.370	110	122	275	260		
S/1030/11	36	11	1030	380	70	590	56	1.400	132	140	325	290		

Oval Eye	U.Clevis	Socket	Tongue	Ball
				
80 KN	70KN	70KN	80 KN	80 KN

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SILICONE
INSULATORS

[Suspension And Tension Type]

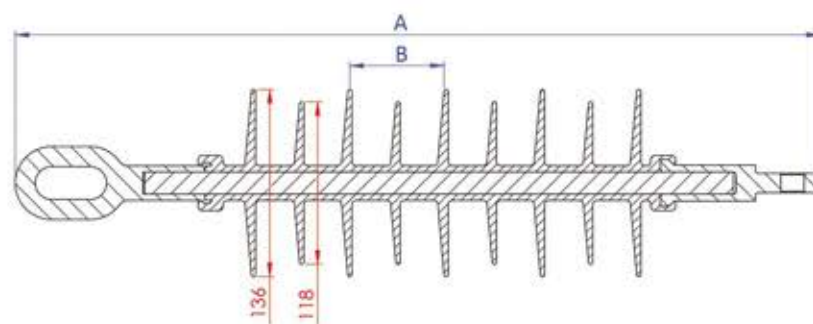
Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin

Fitting: Steel Forged (Hot Dip Galvanized)

SML: 70 Kn

RML: 35 Kn



Product Model	Rated Voltage	Number of Sheds	Creepage Distance (mm)	Arcing Distance (mm)	Max Tensile Load (kN)	A (mm)	B (mm)	Weight (Kg)	Power Frequency Withstand (kV)				Lighting Impulse Flashover (kV)
									Wet	Dry	Neg	Pos	
S/1240/9	36	9	1240	420	70	585	70	1.915	100	110	200	158	
S/1510/11	46	11	1510	485	70	655	70	2.155	115	125	370	268	
S/1730/13	46	13	1730	550	70	725	70	2.380	130	140	410	330	

Oval Eye	U.Clevis	Socket	Tongue	Ball
				
80 KN	70KN	70KN	80 KN	80 KN

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SILICONE INSULATORS

[Suspension And Tension Type]

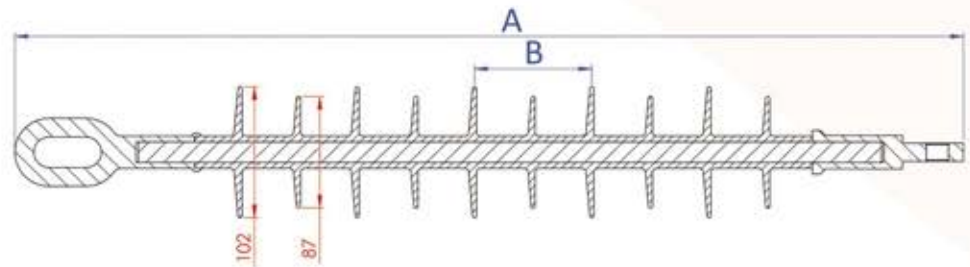
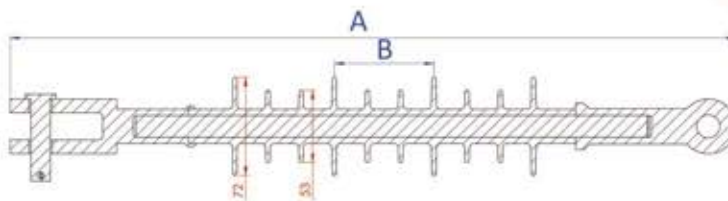
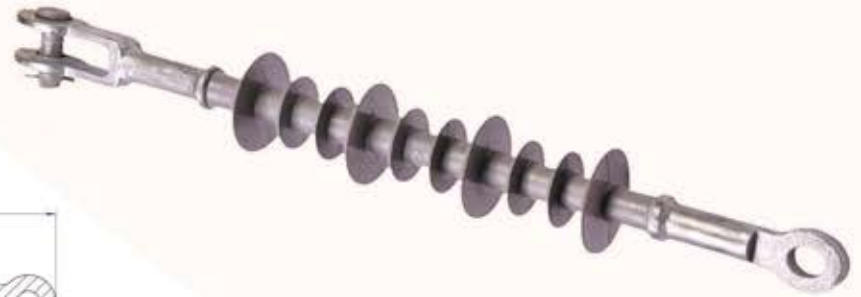
Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin



Fitting: Steel Forged (Hot Dip Galvanized)

SML: 70 kN

RML: 35 kN



	Product Model	Rated Voltage (kV)	Number of Sheds	Creepage Distance (mm)	Arcing Distance (mm)	Max Tensile Load (kN)	A (mm)	B (mm)	Weight (Kg)	Power Frequency Withstand (kV)		Lightning Impulse Flashover (kV)	
										Wet	Dry		Neg
	S/590/10	24	10	590	290	70	530	72	1.250	70	80	195	185
	S/1070/10	36	10	1070	505	70	730	90	1.630	130	150	355	325

Oval Eye	U.Clevis	Socket	Tongue	Ball
				
80 KN	70KN	70KN	80 KN	80 KN

certify by:

ISO 9001
Registered Firm
IMQ
INSTITUT FÜR
MECHANISCHES
QUALITÄTSMANAGEMENT

CERTIFIED
I-Net
INDEPENDENT SYSTEM

esq

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[Pin Type]

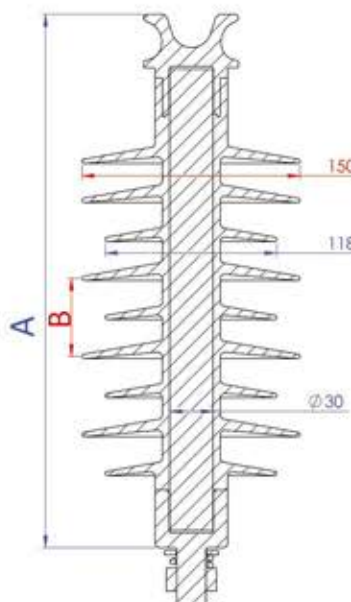
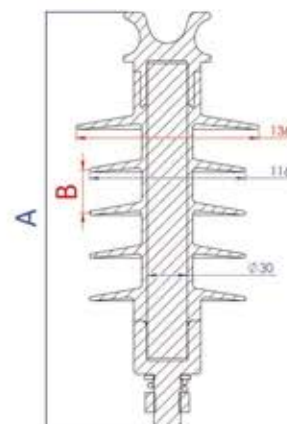
Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin

Top Fitting: Aluminium

Earth Fitting : Steel Forged (hot deep galvanized)

SCL : 5-7 kN



	Product Model	Rated Voltage (kV)	Number of Sheds	Creepage Distance (mm)	Arcing distance (mm)	Bending load (kN)	A (mm)	B (mm)	Weight (Kg)	Power Frequency Withstand (kV)		Lightning Impulse Flashover (kV)	
										Wet	Dry		Neg
	P/580/5	24	5	580	230	5-7	276	32	1.430	48	60	202	346
	P/1116/9	36	9	1116	335	5-7	390	54	2.200	130	145	270	400

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[Pin Type]

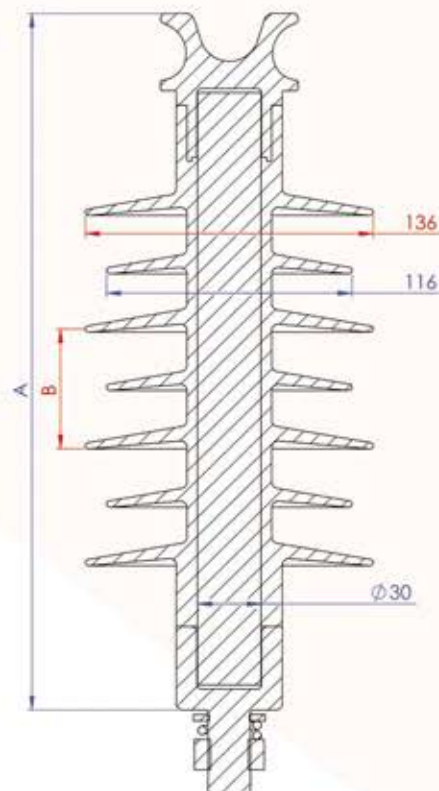
Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin

Top Fitting: Aluminium

Earth Fitting : Steel Forged (hot dip galvanized)

SCL : 5-7 kN



Product Model	Rated Voltage (kV)		Number of Sheds	Creepage Distance (mm)	Arcing distance (mm)	Bending load (kN)	A (mm)	B (mm)	Weight (Kg)	Power Frequency Withstand (kV)		Lightning Impulse Flashover (kV)
										Wet	Dry	
P/650/5	24	5	610	232	5-7	280	56	1.550	48	60	271	189
P/800/7	36	7	800	293	5-7	360	56	1.885	80	90	366	212

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[Pin Type]

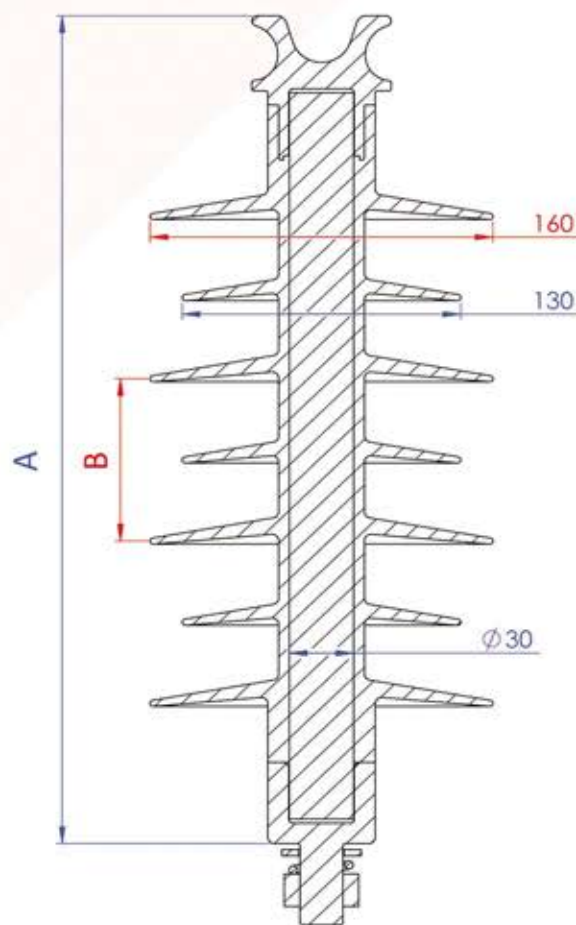
Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin

Top Fitting: Aluminium

Earth Fitting : Steel Forged (hot dip galvanized)

SCL : 5-7 kN



Product Model	Rated Voltage (kV)	Number of Sheds	Creepage Distance (mm)	Arcing Distance (mm)	Bending Load (kN)	A (mm)	B (mm)	Weight (Kg)	Power Frequency Withstand (kV)				Lightning Impulse Flashover (kV)
									Wet	Dry	Neg	Pos	
P/730/5	24	5	730	300	5-7	350	80	1.910	78	90	240	196	
P/1025/7	36	7	1025	380	5-7	430	80	2.370	114	125	390	256	
P/1270/9	36	9	1270	460	5-7	510	80	2.950	140	152	440	310	

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[Transmission Model]

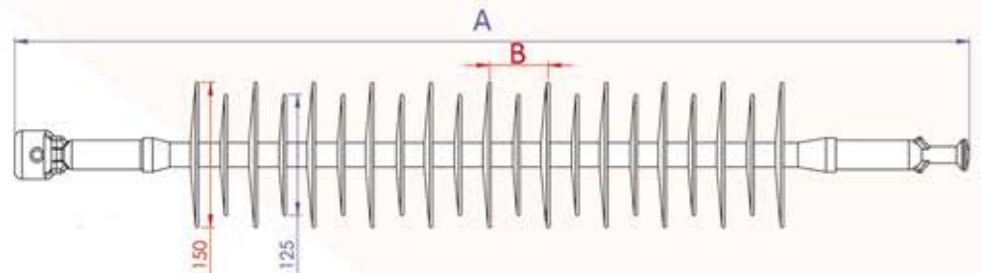
Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin

Fitting: Steel Forged (Hot Dip Galvanized)

SML: 120 kN

RML: 60 kN



Product Model	Rated Voltage	Number of Sheds	Creepage Distance (mm)	Arcing Distance (mm)	Max Tensile Load (kN)	A (mm)	B (mm)	Weight (Kg)	Power Frequency Withstand (kV)		Lightning Impulse Flashover (kV)	
									Wet	Dry		Neg
S/2400/17	66	17	2400	620	120	840	60	3.820	160	180	520	360
S/2675/19	66	19	2675	680	120	900	60	4.090	184	217	552	400
S/2950/21	66	21	2950	740	120	960	60	4.350	211	255	585	438
S/3175/23	66	23	3175	800	120	1020	60	4.610	236	289	618	481
S/3450/25	66	25	3450	860	120	1080	60	4.880	260	330	650	520

Ball	Socket	Tongue	U-Clevis
120 kN	120 kN	120 kN	120 kN

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[Interphase Spacer]

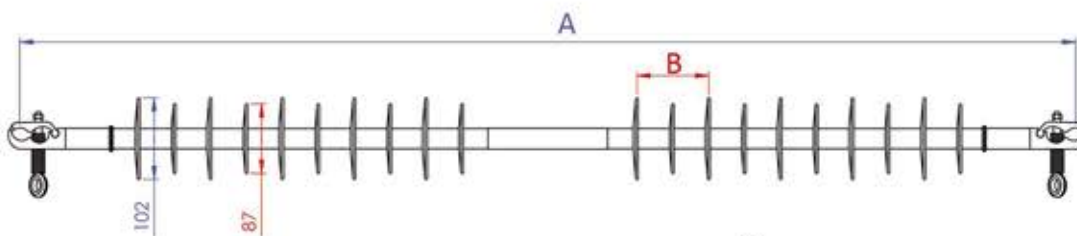
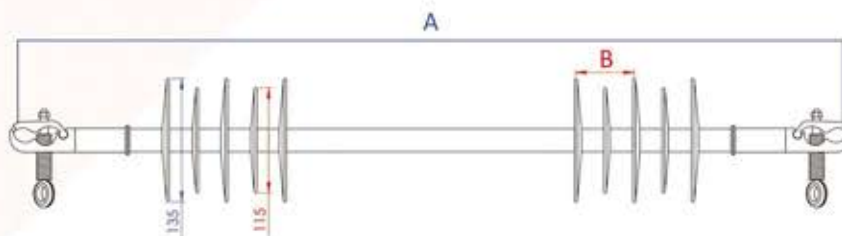
Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin

Fitting: Aluminum

SML: 14 kN

RML: 7 kN



	Product Model	Rated Voltage (kV)	Number of Sheds	Creepage Distance (mm)	Arcing distance (mm)	Bending load (kN)	A (mm)	B (mm)	Weight (Kg)		Power Frequency Withstand (kV)		Lightning Impulse Flashover (kV)
									Wet	Dry	Neg	Pos	
SP/900	24-36	10	1650	730	14	900	64	2.000	100	120	465	408	
SP/1350	24-36	20	2315	1130	14	1350	90	2.900	260	300	730	717	

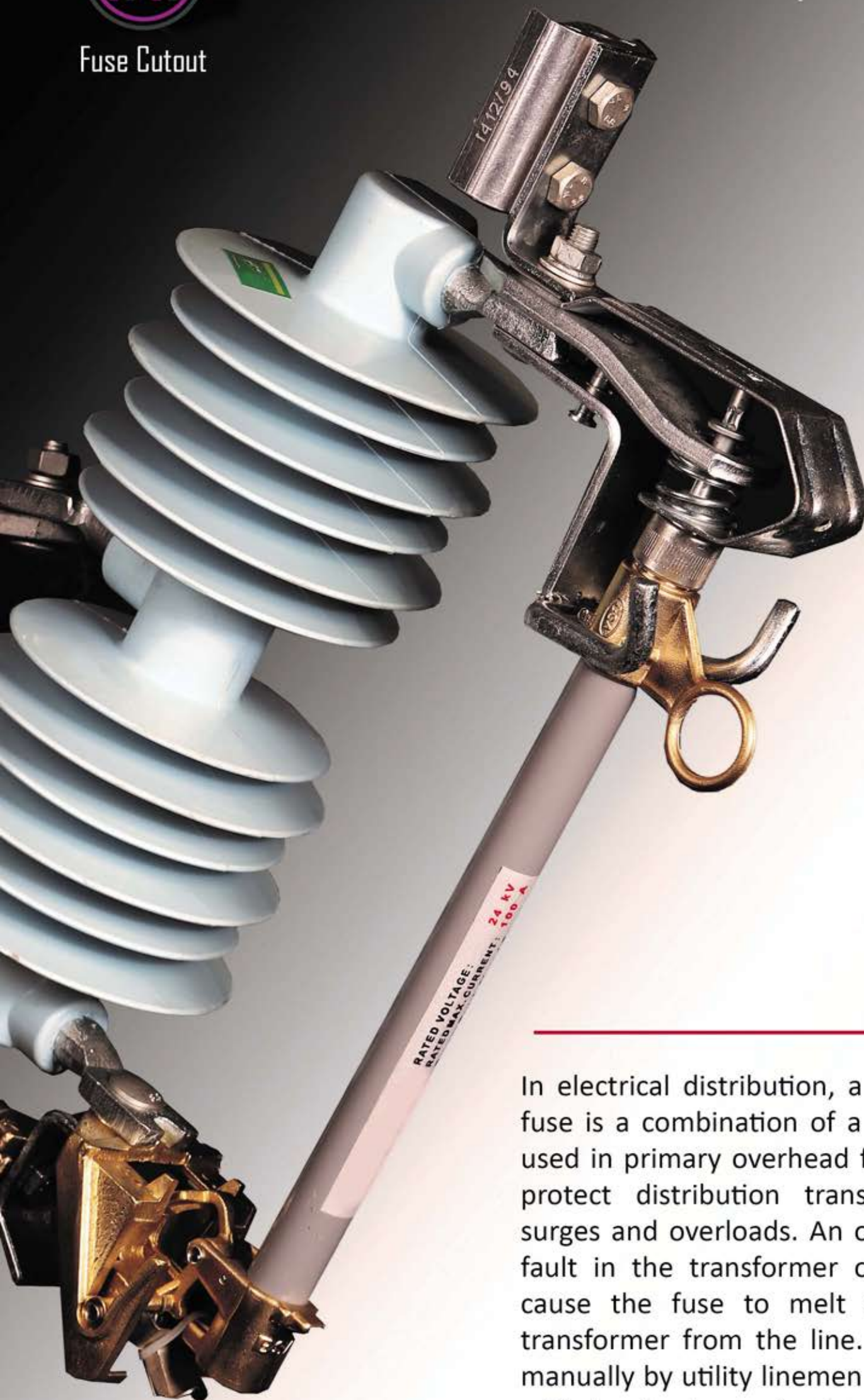
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Fuse Cutout

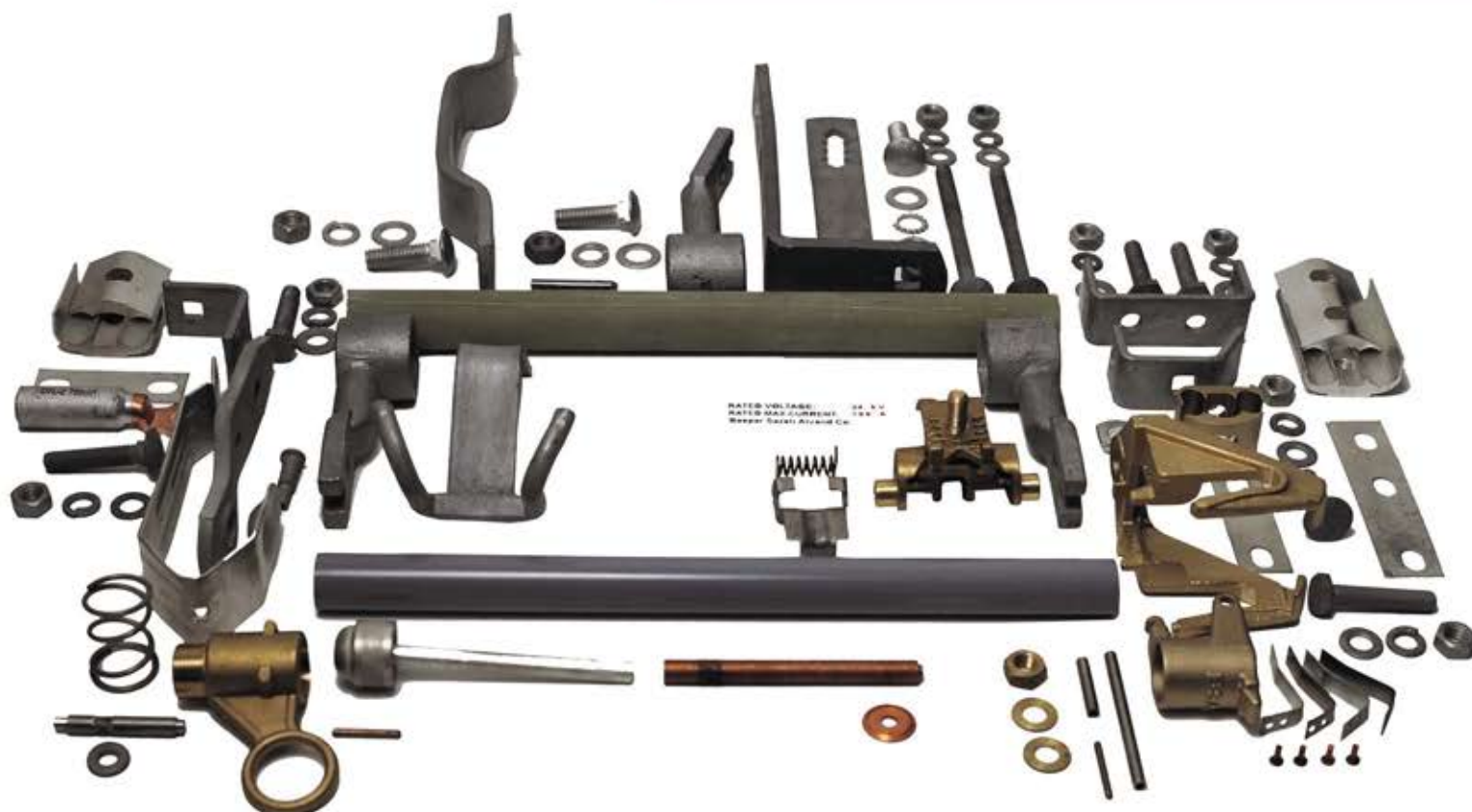
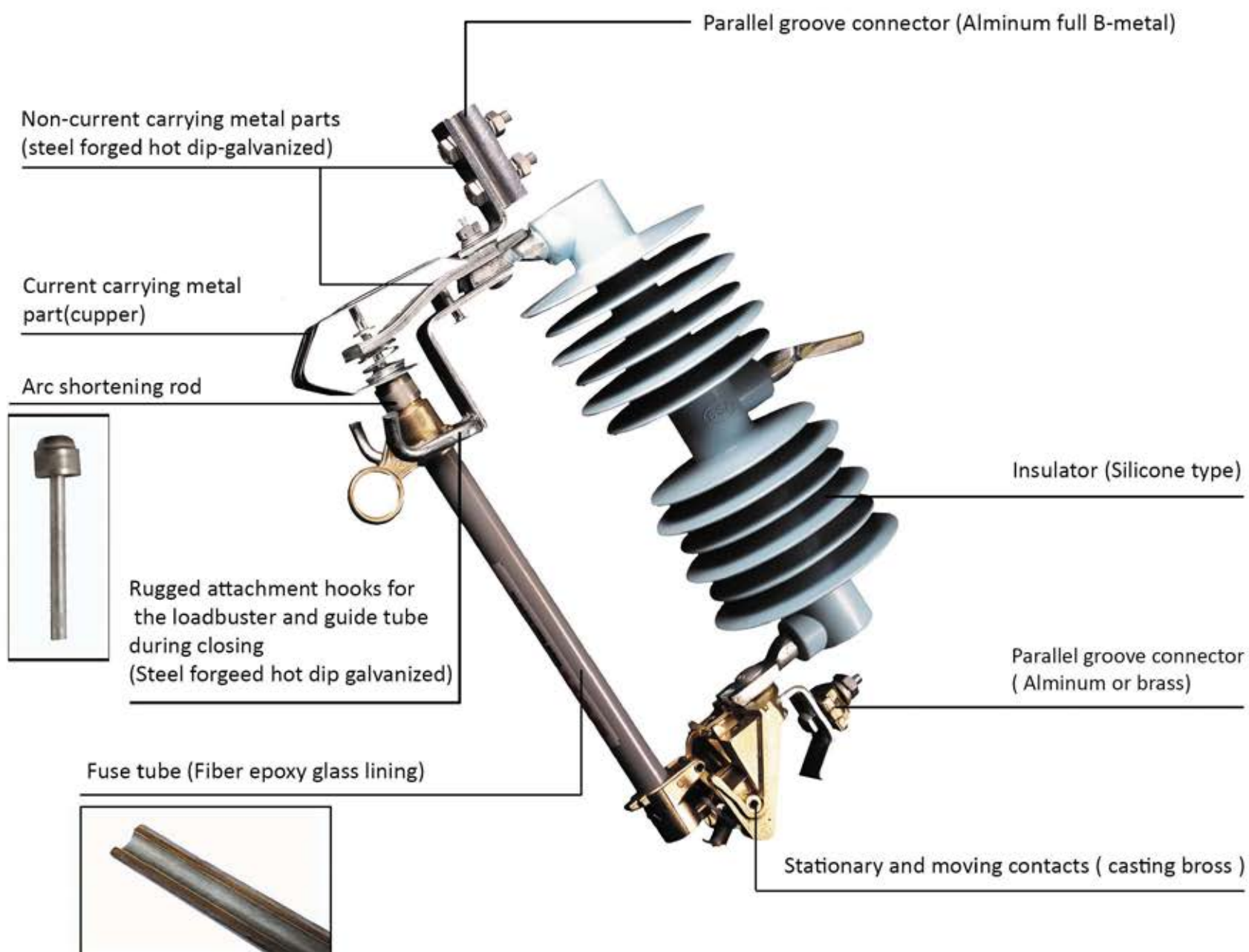
Outdoor open type cutout



In electrical distribution, a fuse cutout or cut-out fuse is a combination of a fuse and a switch that used in primary overhead feeder lines and taps to protect distribution transformers from current surges and overloads. An overcurrent caused by a fault in the transformer or customer circuit will cause the fuse to melt and disconnecting the transformer from the line. It can also be opened manually by utility linemen standing on the ground with loadbuster and using a long insulating stick called a "hot stick".



Fuse Cutout





Fuse Cutout

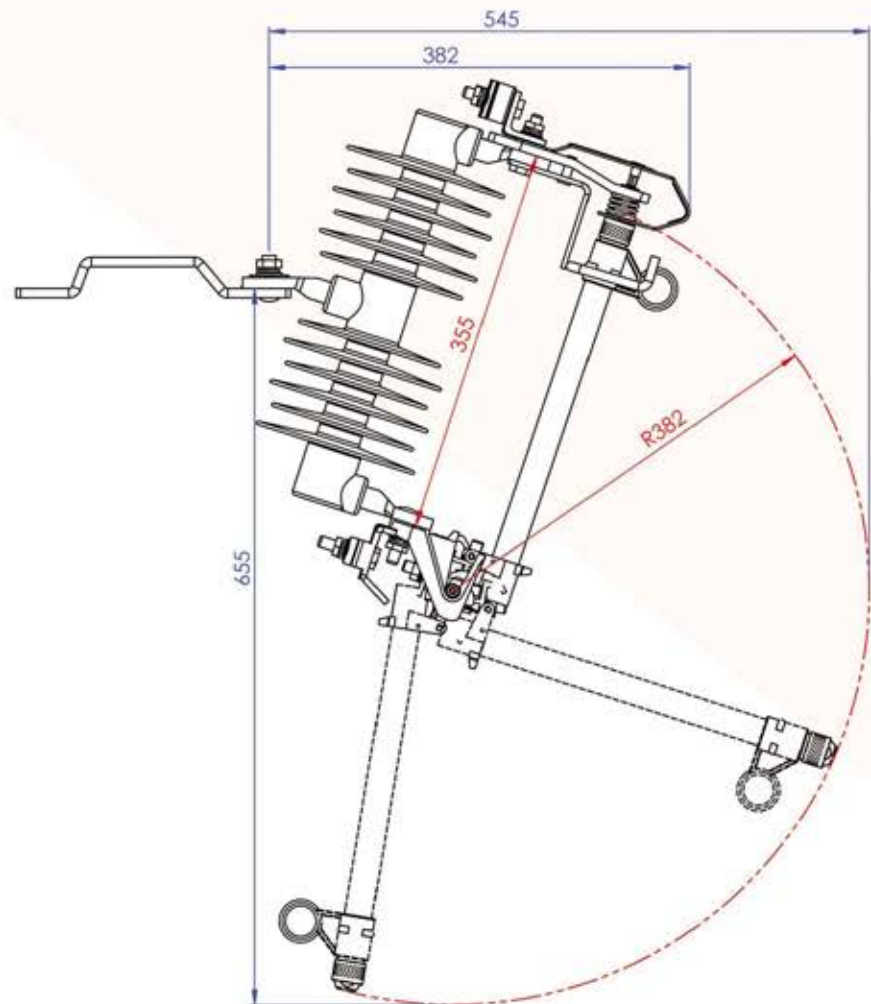
[DROP OUT FUSE CUTOUT]

Insulator Housing : HTV Silicon Rubber

Insulator Rod: Fiber glass (ECR) Reinforced with epoxy resin

Outdoor Open Type

IEC 60282



Type of insulator	Rated voltage (kV)	Rated current (A)	Rated frequency (Hz)	Rated Breaking capacity(kA)	Rated wet power frequency withstand voltage (kV)	Lightning impulse withstand (kV)	Creepage distance (mm)	Weight (Kg)	
Polymer	24	100	50	8	60	125	145	800	6.8

certify by:





Fuse Cutout

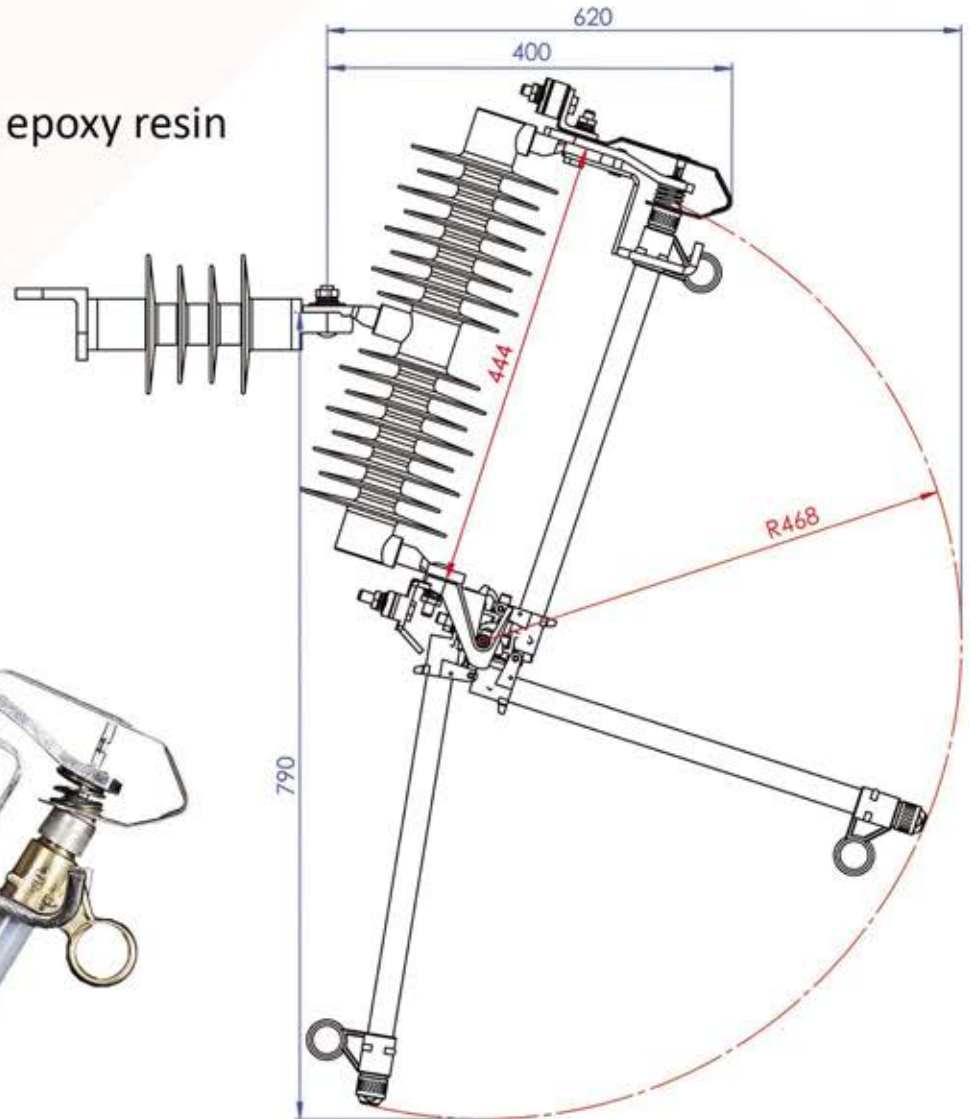
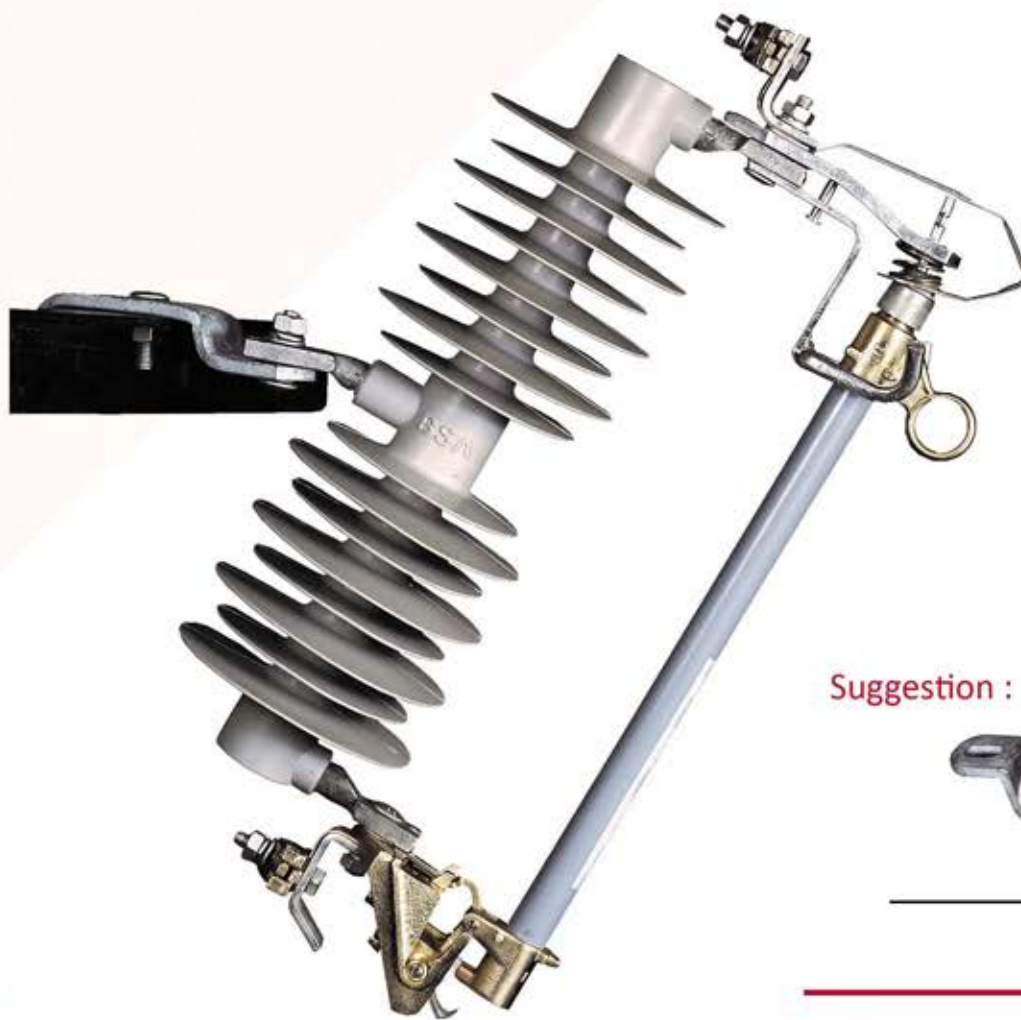
[DROP OUT FUSE CUTOUT]

Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin

Outdoor Open Type

IEC 60282



Suggestion :



Increasing insulation distance
By using silicon support

Type of insulator	Rated voltage (kV)	Rated current (A)	Rated frequency (Hz)	Rated Breaking capacity(kA)	Rated wet power frequency withstand voltage (kV)	Lightning impulse withstand (kV)	Creepage distance (mm)	Weight (Kg)		
Polymer	36	100	50	4	80	145	165	1050	1650	7.5

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Surger Arrester

Surge Arrester



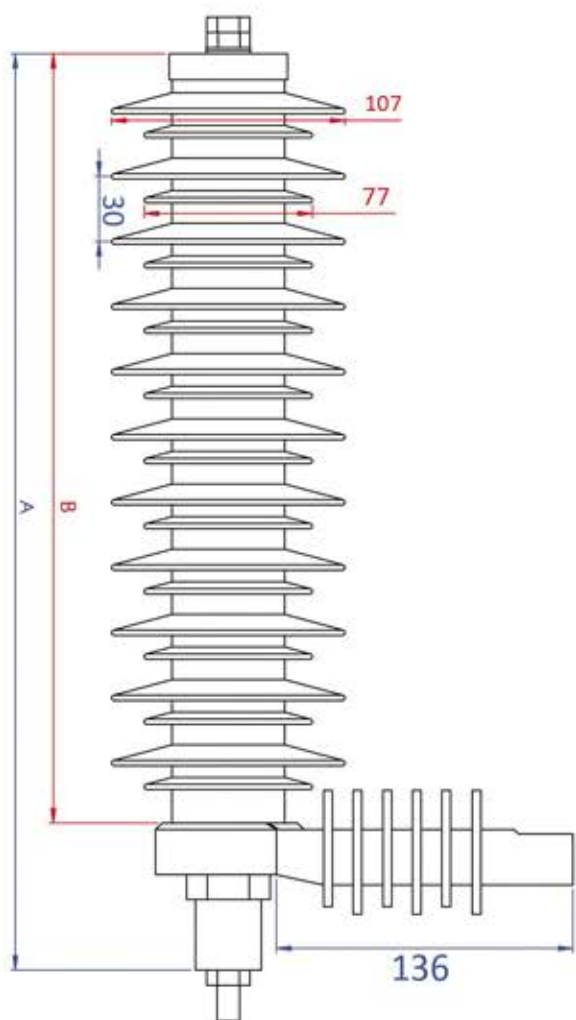
POLYMERIC HOUSED METAL OXIDE SURGE ARRESTER WITHOUT GAPS

A surge arrester is a device to protect electrical equipment from over-voltage transients caused by external (lightning) or internal (switching) events. The energy criterion for various insulation material can be compared by impulse ratio. The surge arrester should have a low impulse ratio, so that a surge incident on the surge arrester may be bypassed to the ground instead of passing through the apparatus.





Surge Arrester



Product Model	Rated voltage (kV)	Continuous Operating Voltage (U _c) (kV _{rms})	Nominal Discharge Current (I _n) (kA)	Creepage Distance (mm)	Number of Sheds	Arcing Distance (mm)	A (mm)	B (mm)	Weight (Kg)
LA-1760	24	20	10	1760	16	280	335	267	3.1
LA-2415	36	28.8	10	2415	22	370	442	354	4



SILICONE INSULATORS

[Other Products]

Housing : HTV Silicon Rubber

Rod: Fiber glass (ECR) Reinforced with epoxy resin

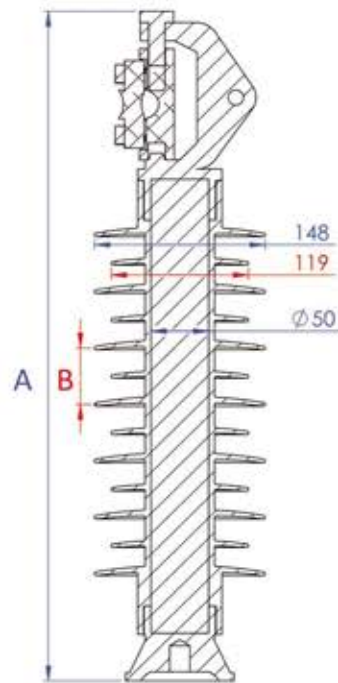
Fitting: Steel Forged (Hot Dip Galvanized)

Cast Iron (Hot Dip Galvanized)

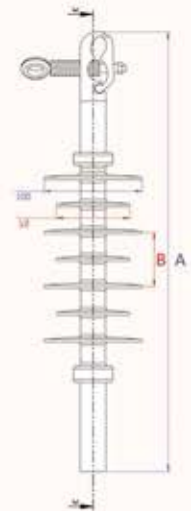
Aluminium



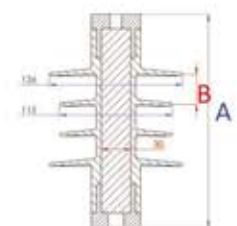
LP/1260/13



J/670/7



PO/500/4



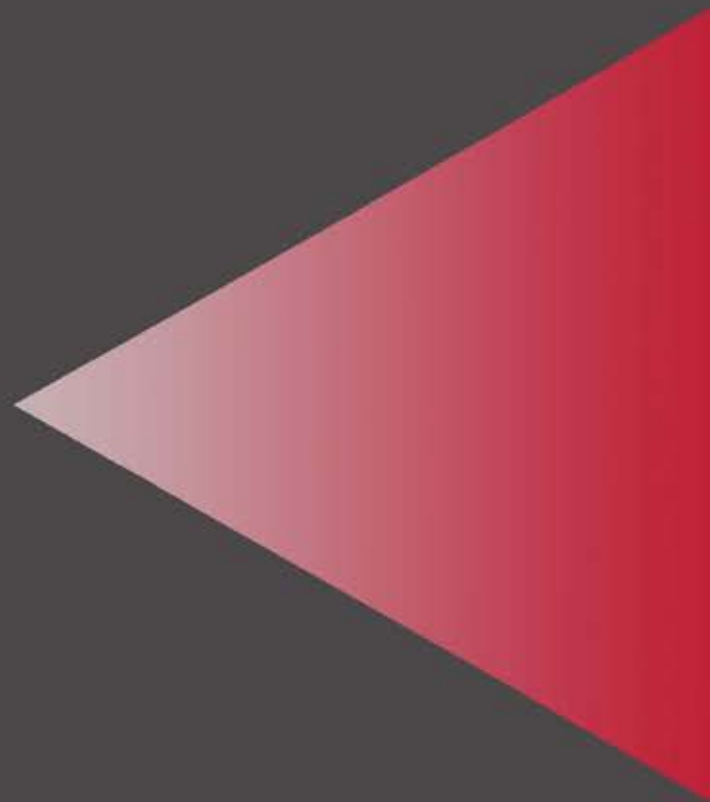
Product Model	Rated Voltage (kV)		Number of Sheds	Creepage Distance (mm)	Arcing Distance (mm)	Bending Load (kN)	A (mm)	B (mm)	Weight (Kg)	Power Frequency Withstand (kV)		lightning impulse flashover (kV)
										Wet	Dry	
PO/500/4	24	4	500	200	7	220	30	1.000	95	78	184	156
J/670/7	24	7	670	280	14	455	56	0.9	90	100	200	187
LP/1260/13	36	13	1260	480	14.5	590	50	6.500	144	127	393	283



FUTURE PLANS



COMING SOON ...



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