Solid Core

Modern INSULATORS LTD.

Modern Group

Modern Group is one of the leading textile and engineering multi-product Industrial Group in India. Modern Group of Industries emerged on the corporate scene in 1976-77 and is managed by very dynamic and professional entrepreneur Mr. H. S. Ranka and their team with vision of High Quality of product. Modern Group is having its five manufacturing units in the states of Gujarat and Rajasthan with manpower base of about 7000 employees and sales turnover exceeding 300 Million US$. The Group has achieved significant achievement in export and further spearheading its efforts to achieve commendable export share in the coming years.

MODERN INSULATORS

MIL has been set up by the Modern Group in 1985 with technical collaboration from Siemens AG, Germany, for manufacture of High Voltage Porcelain Insulators for Transmission lines, Substations, Railways and Hollow porcelain for Control Equipments.

Time to time CAPEXIL a government of India body recognises MIL efforts in exports by rewarding with prestigious top export awards.

ISO 14001:2004

ISO 9001:2000

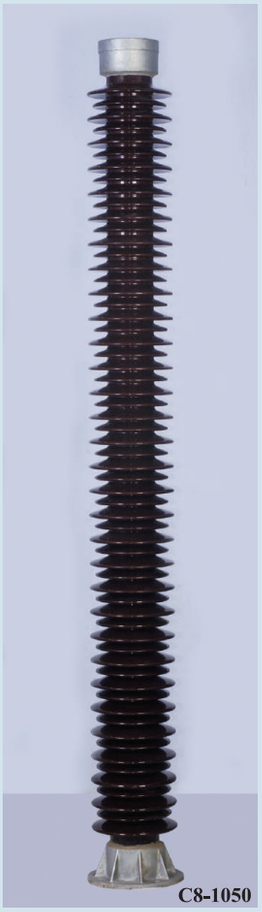
Solidcore station post insulators

Modern Insulators Ltd (MIL) has been in the field of manufacture of Soiidcore station post insulators made of alumina porcelain for more than a decade.

Millions of insulators have been supplied by MIL to various projects in India & abroad for the use in disconnecting switches and sub-station and the insulators supplied have been giving satisfactory performance.

The customer list includes leading switchgear manufacturers like ABB, Areva, BHEL, Crompton Greaves, Siemens and others.

There are valid reasons for customers to prefer MIL Soiidcore post. Station post insulators.



- MIL is able to meet the specification of the customers in all respects.

- MIL responds to the enquiry from the customers immediately.

- MIL's reliability of the product in respect of mechanical, electric & dielectric characteristics is good and external service to the customers is excellent.

Salient points relating to technical and specificational aspects of MIL' s Station Posts:

- The design, manufacturing methods, inspection, Quality control and testing facilities at various stages collectively help in building up quality assurance level compareable to international standards.

Puncture-proof characteristic of solidcore design with puncture path equal to the arc-over distance enables to eliminate and divert electrical discharge outside of the insulator.

- Solidcore single element porcelain construction eleminates internal cavities and air space which are responsible for partial discharge since the dielectric voltage of porcelain is many times that of air, internal puncture is leading to external flash over is ruled out.

Alumina Porcelain as per German Technology :-

-The ceramic insulating body of solidcore station post insulators is made of high strength alumina porcelain in accordance with KER 110.2 as per DIN/IEC standards.

Porcelain in made of the finest grade electrical porcelain and has high and consistant mechanical properties dense structure and zero moisture absorption.

Design Features of MIL's Station Posts :-

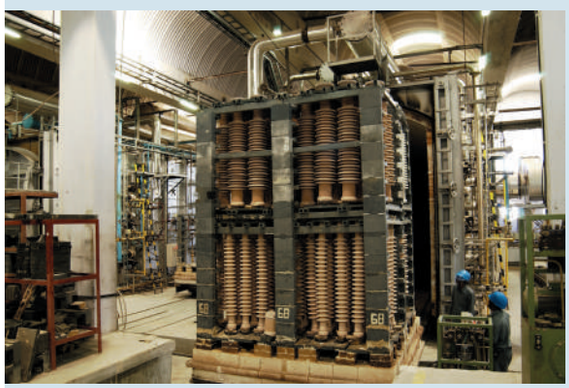
- The shed profile with its spacing and shed overhang ensures user effective performance under all weather conditions.

Modern Insulators

Portland Cement Assembly :-

The end cap of the station post insulators are made of ferrous castings (malleable cast iron) which have good track record of performance. Metal parts are hot dip galvanised as per relevant standards. Top and bottom metal parts are treated internally with bituminous coating with a view to effectively distribute mechanical stresses and alleviate stresses due to expansion & contraction and balance coefficient of porcelain cement and ferrous casting & also acts as a chemical barrier to prevent between zinc in the galvanised cap & cement in the joint. The cement joints with established processes adopted ensures proper cement cure & the development of maximum cement strength. Special portland cement duly tested & properly stored is used for cementing by injection method. The sanded portion at both end of the porcelain body strengthens the interface between the porcelain and the cement assembly is done in ensuring concentricity & parallelism.

Bolt holes of the top cap are aligned with the bolt holes of the bottom cap. All bolt holes conforms to BS/IES/ANSI specifications.



Proper sizes & quantities of galvanised bolts, lockwashers & hexagonal nuts necessary for assembly are supplied with each units for intermediate connection. The metal parts are properly designed & controled. End caps & cements are cleaned & trimmed off so as to ensure trouble free performance.

The porcelain surfaces are covered with smooth glaze which increase strength of the porcelain, provides a pleasing appearance with profiles facilitating very good self cleaning and washing by rain and wind.

The standard colour is RAL 8016 chocolate brown and grey glaze - ANSI 70 skytone grey can also be supplied on specific request.

Every post insulators will have a marking of logo, year of manufacturing, SI. No. on the top of petticoat. The serial number marked with the actual date of manufacturing will enable the customer to trace and identify if it is required.

Routine Testing as per standards :-

The quality control measures adopted in the entire manufacturing process beginning with mixing with the porcelain ingredients & upto end with proof test of the finished insulators ensure performance reliability in service.

There are series of tests before assembly such as diamensional check on porcelain, straightness, uniformity of sanding, smoothness of glaze, cracks and other external surface imperfections.

There after porcelain shells, before assembly 100% ultrasonically tested for physical homogeneity.

After assembly and proper curing of post insulators are subject to mechanical proof test as per relevant standards.

The complete quality assurance systems and procedures documented is available for inspection and the same can be provided if required for detailed information.

Normally for the station post insulators maximum working load of the insulator is 40% of the cantilever failing load. The maximum working load in tension, compression and torsion is 50% of the rated value. These are as per national safety code of ANSI C2-1990, Rule 277.

While designing resultant load from combined load should be considered for evaluating loading conditions.

$$\frac{CL}{4.CR} + \frac{TL}{5.TR} + \frac{RL}{5.RR} \angle 1$$

Where: CL = Cantilever load; TR = Tension rating; CR = Cantilever Rating; RL = Torsion load; TL = Tension load; RR = Torsion rating

When the formula given in ANSI standard C37.32.1972 is used to determine the short circuit forces on post insulators, the maximum recommended working load can be extended to 100% of their rated values. However, it is acknowledged that this extension is allowed only because the forces calculated are generally accepted to be at least 2.5 times greater than the actual developed system forces.

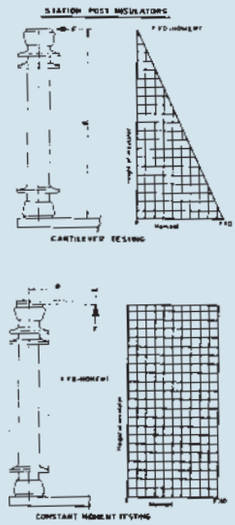
When using newer and more realistic techniques for calculating the short duration forces, such as those created by system faults or earthquakes, it is recommended that 40% of the rated cantilever or 50% of the rated tension, compression or torsion values should not be exceeded.

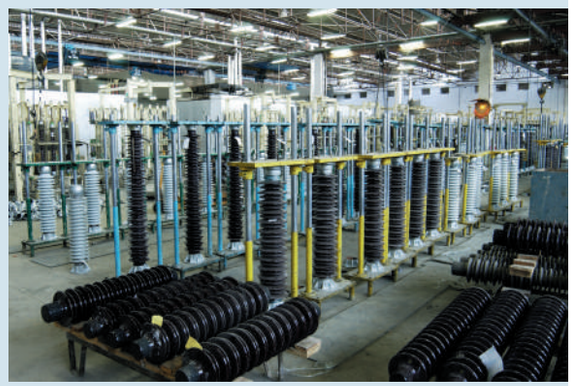
Different sizes for mechanical strength and creepage distances. Station post insulators for almost all the applications are available for voltage range from 33 KV to 800 KV and maximum mechanical properties. The tables below will give insulators for most of the voltage classes, standard high and extra high strength, different pollution level and other characteristic.

Committed manpower

The technicians and employees ensure production and final product with their personal involvement in the interest of MIL' s products supplied to customers and its performance reliability.

Every purchase order receives personal attention to ensure product quality, delivery time. Our open mindness and transparency to the customer enables them to visit our factory any time and see our manufacturing operations to get a first hand information and see the facility, discussing with our design, production and testing department. one will appreciate the involvement of the people for giving product of very high level of quality and dependability in visit to our plant.





Pollution severity levels

Pollution Level	Examples Of Typical Environments	Minimum Specific Creepage Distance mm/kV
I Light	Areas without industries and with Low density of houses equipped heating plants. Areas with low density of industries or houses but subjected to frequent winds and or rainfall. Agricultural areas. Mountainous areas All these areas shall be situated at the least 10 to 20 km from the sea and shall not be exposed to winds directly from the sea.	16
II Medium	Areas with industries not producing particularly polluting smoke and/or with average density of houses equipped with heating plants. Areas with high density of houses and / or industries but subjected to frequent winds and or rainfall. Areas exposed to wind from the sea but not too close to the coast (at least several kilometers distant)	20
III Heavy	Areas with high density of industries and suburbs of large cities with high density of heating plants producing pollution. Areas close to the sea or in any case exposed to relatively strong winds from the sea	25
IV Very heavy	Areas generally of moderate extents, subjected to conductive dusts and to industrial smoke producing particularly thick conductive deposits. Areas generally of moderate extent, very close to the coast and exposed to sea spray or to very strong & polluting winds from the sea Desert areas characterized by no rain for long periods, exposed to strong winds carrying sand, and salt and subjected to regular condensation.	31

The values of the creepage distance obtained must be increased by a factor k_D where D_m is the average diameter

Regular sheds $Dm = \frac{De + Di}{2}$

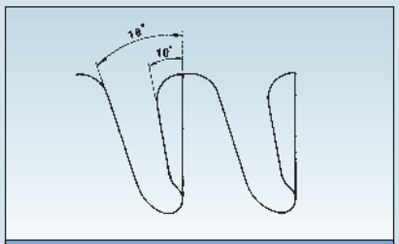
Alternating sheds $Dm = \frac{Del + De2 + 2Di}{4}$

$300 \leq$ $Dm < 300$ mm : $kD = 1$
$Dm \leq 500$ mm : $kD = 1.1$
$Dm > 500$ mm : $kD = 1.2$

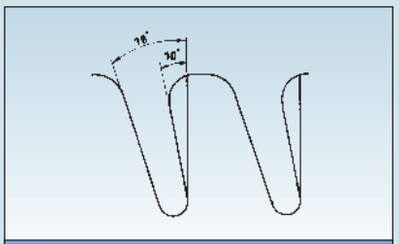
Standard insulation levels

Shade Profile

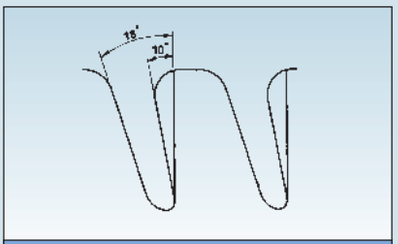
Normal Sheds



Din Profile (A)

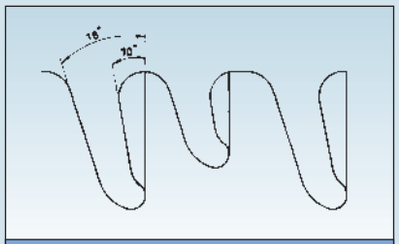


Aerodynamic Profile (B)

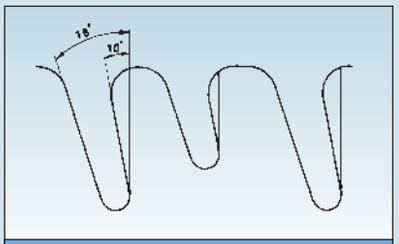


Open Profile (C)

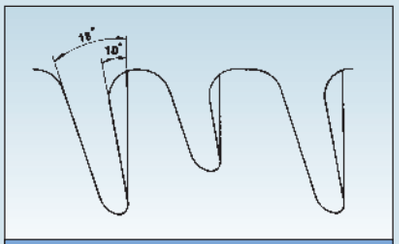
Alternating Sheds



Din Profile (D)



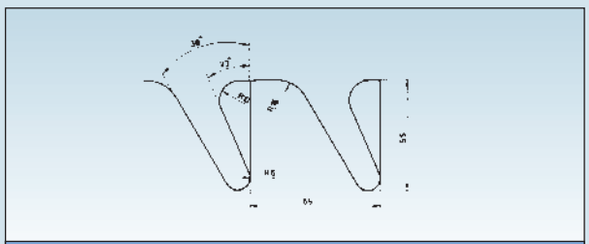
Aerodynamic Profile (E)



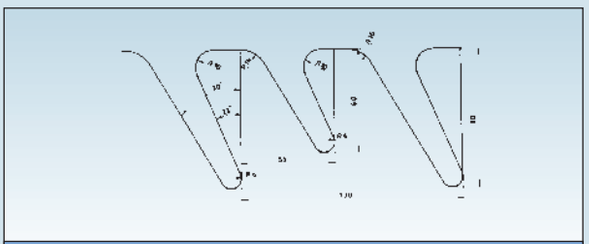
Open Profile (F)

Standards : IEC : 60815

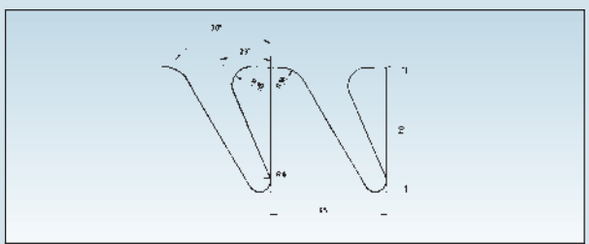
ENEL Profiles



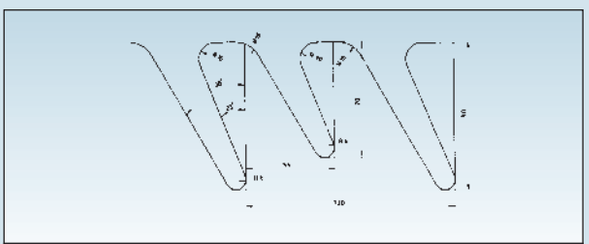
PG Profile



PU Profile

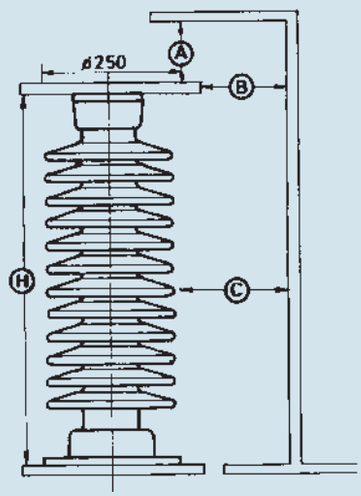


PZ Profile



PH Profile

Dimension Telerances



Standards : IEC : 60168, 273

1 On unground porcelain

d ≤ 300 : ± (0.04d + 1.5 mm) mm

d ≥ 300 : + (0.025d + 6mm) mm

2 Parallelism on assembled insulators (A)

Per H ≤ 1m : 0.5 mm

Per H ≥ 1m : 0.5 X H (H in metres)

The tolerances of the parallelism are related to diameter of 250 mm

3 Eccentricity on assembled insulators (B)

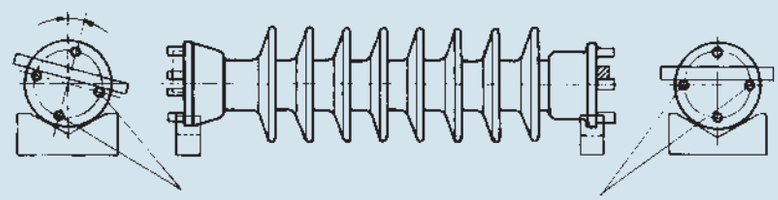
e ≤ 2 x (1+H) mm (H in metres)

4 Static camber (C)

F = {1.5 + 0.008 H)mm (H in millimetres)

5 Angular deviation

∞ ≤ ± 1°

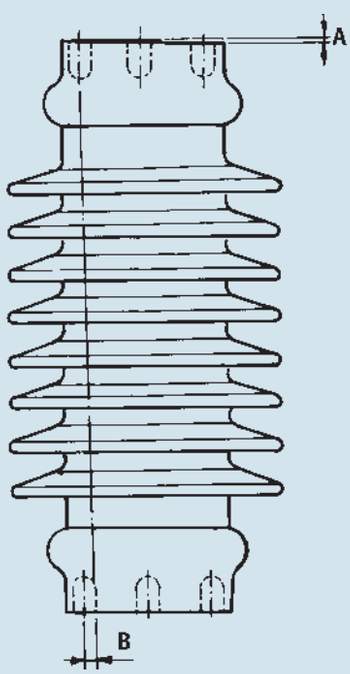


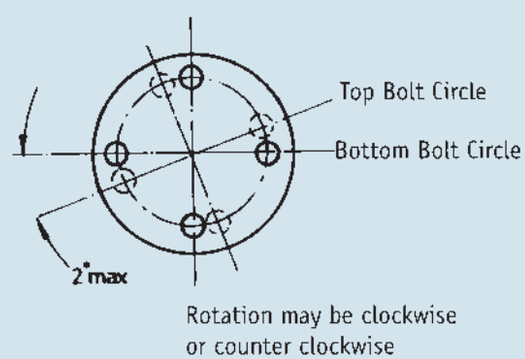
6 Creepage distance

When the creepage distance is specified as a nominal value, including a minimum nominal value as given in IEC 273 ± (0.04D + 1.5)mm.

When the creepage distance is distance is specified as a minimum value, there shall be no negative tolerance and the positive tolerance shall be : 2 x (0.04d + 1.5) mm.

A : 1/32 inch for each 30 inch of height or portion there of





Notes :

1. All dimensions are measured at bolt circle
2. Tolerance applies to individual units

B : 1/8 inch max. for each 30 inch height or portion there of

Station post insulators

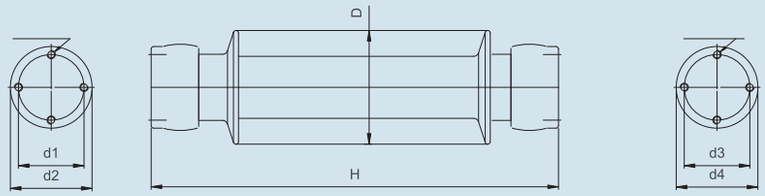


Fig. No. : 1

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland / Sulphur

Technical referance No.			TR-222	TR-205	TR-225	TR-208	TR-227	TR-210	TR-231	TR-214	TR-214
FIG. No.:-			1	1	1	1	1	1	1	1	1
Drawing No.			211-C-526	211-C-078	211-C-175	211-C-076	211-C-527	211-C-075	211-C-088	211-C-087	211-C-542
Height (H)		Inch / mm.	10/254	10/254	12/305	14/356	15/381	18/457	20/508	22/559	22/559
No. of units per stack			1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		Inch / mm.	10-1/2 / 267	15-1/2/394	15-1/2/394	24/610	24/610	37/940	37/940	43/1095	53/1350
Largest shed dia. (D)		mm.	190	185	200	170	220	200	225	205	225
Type of shed (Ref. page No. 6)			A	A	B	A	B	B	B	B	E
MECHANICAL VALUES	Bending strength	lb/kN	4000/17.79	2000/8.89	4000/17.79	2000/8.89	4000/17.79	2000/8.89	4000/17.79	2000/8.89	2000/8.89
	Tensile strength	lb/kN	15000/66.72	8500/37.80	20000/88.96	10000/44.48	20000/88.96	12000/53.37	25000/111.2	14000/62.27	14000/62.27
	Compression strength	lb/kN	20000/88.96	10000/44.48	20000/88.96	10000/44.48	20000/88.96	15000/66.72	30000/133.44	15000/66.72	15000/66.72
	Torsional strength	lb-inch/kNm	12000/1.35	7000/0.79	14000/1.58	8000/0.9	16000/1.8	10000/1.13	20000/2.26	12000/1.35	12000/1.35
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	30	45	45	60	60	80	80	100	100
	Impulse withstand voltage	kVp	95	110	110	150	150	200	200	250	250
	Impulse flashover voltage	kVp	105	125	125	170	170	225	225	280	280
RIV DATA	Test voltage to ground	kV	5	10	10	15	15	22	22	30	30
	Max. RIV - microvolts at 1000	kHz	50	50	50	100	100	100	100	200	200
FIXING DETAIL	TOP	No. of tapped holes (N)	4	4	4	4	4	4	4	4	4
		Tapped dia X depth	5/8-11UNC	1/2-13UNC	5/8-11UNC	1/2-13UNC	5/8-11UNC	1/2-13UNC	5/8-11UNC	1/2-13UNC	1/2-13UNC
		Pitch circle dia (d1)	5	3	5	3	5	3	5	3	3
		Max. cap dia (d2)	6.22	4.25	6.22	4.25	6.22	4.25	6.22	4.25	4.25
	BOTTOM	No. of tapped holes (N)	4	4	4	4	4	4	4	4	4
		Tapped dia X depth	5/8-11UNC	1/2-13UNC	5/8-11UNC	1/2-13UNC	5/8-11UNC	1/2-13UNC	5/8-11UNC	1/2-13UNC	1/2-13UNC
		Pitch circle dia (d3)	5	3	5	3	5	3	5	3	3
		Max. cap dia (d4)	6.22	4.25	6.22	4.25	6.22	4.25	6.22	4.25	4.25
Net weight (approx)		kg	12	9	17	12	21	19	32	25	27
Type of application			UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH

1. STANDARD APPLICABLE AS PER ANSI C29-1 & C29-9
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Station post insulators

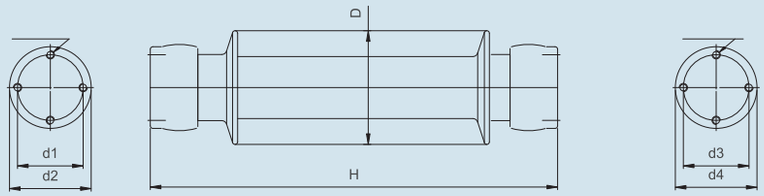


Fig. No. : 1

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

Technical referance No.			TR-267	TR -216	TR-278	TR-286	TR-286	TR-287	TR-287	TR-288	TR-288
FIG. No.:-			1	1	1	1	1	1	1	1	1
Drawing No.			211-C-095	211-C-092	211-C-096	211-C-094	211-C-184	211-C-097	211-C-687	211-C-172	211-C-672
Height (H)		Inch / mm.	24/610	30/762	30/762	45/1143	45/1143	45/1143	45/1143	54/1372	54/1372
No. of units per stack			1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		Inch / mm.	43/1093	72/1830	72/1830	99/2515	121/3075	99/2515	113/2875	116/2947	143/3625
Largest shed dia. (D)		mm.	225	205	250	215	238	230	250	215	230
Type of shed (Ref. page No. 6)			B	B	B	B	E	B	B	B	E
MECHANICAL VALUES	Bending strength	lb/kN	4000/17.79	1500/6.67	300013.34	1700/7.56	1700/7.56	2600/11.56	2600/11.56	1450/6.45	1400/6.23
	Tensile strength	lb/kN	25000/111.2	16000/71.16	25000/111.2	20000/88.96	20000/88.96	25000/111.2	25000/111.2	20000/88.96	20000/88.96
	Compression strength	lb/kN	60000/266.88	25000/111.2	60000/266.88	60000/266.88	60000/266.88	75000/333.6	75000/333.6	60000/266.88	60000/266.88
	Torsional strength	lb-inch/kNm	20000/2.26	15000/1.69	40000/4.52	60000/6.78	60000/6.78	90000/10.17	90000/10.17	60000/6.78	40000/4.52
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	100	145	145	230	230	230	230	275	275
	Impulse withstand voltage	kVp	250	350	350	550	550	550	550	650	650
	Impulse flashover voltage	kVp	280	390	390	610	610	610	610	710	710
RIV DATA	Test voltage to ground	kV	30	44	44	73	73	73	73	88	88
	Max. RIV - microvolts at 1000	kHz	200	200	200	200	200	200	200	200	200
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4
	Tapped dia X depth	inch	5/8-11UNC	1/2-13UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC
	Pitch circle dia (d1)	inch	5	3	5	5	5	5	5	5	5
	Max. cap dia (d2)	inch	6.22	4.25	6.22	6.22	6.22	6.22	6.22	6.22	6.22
FIXING DETAIL BOTTOM	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4
	Tapped dia X depth	inch	5/8-11UNC	1/2-13UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC
	Pitch circle dia (d3)	inch	5	3	5	5	5	5	5	5	5
	Max. cap dia (d4)	inch	6.22	4.25	6.22	6.22	6.22	6.22	6.22	6.22	6.22
Net weight (approx)		kg	39	35	51	63	70	71	78	74	82
Type of application			UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH

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Station post insulators

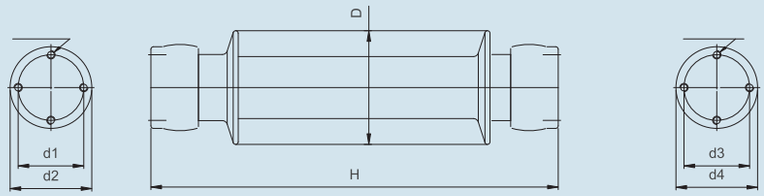


Fig. No. : 1

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

Technical referance No.			TR-288	TR-289	TR -289	TR-289	TR-291	TR-291	TR-291	TR-295	TR-295
FIG. No.:-			1	1	1	1	1	1	1	1	1
Drawing No.			211-C-623	211-C-193	211-C-688	211-C-1042	211-C-173	211-C-1054	211-C-624	211-C-192	211-C-618
Height (H)		Inch / mm.	54/1372	54/1372	54/1372	54/1372	62/1575	62/1575	62/1575	62/1575	62/1575
No. of units per stack			1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		Inch / mm.	167/4250	116/2946	136/3450	116/2946	132/3353	167/4250	188/4770	132/3353	181/4600
Largest shed dia. (D)		mm.	257	225	240	265	220	230	255	215	280
Type of shed (Ref. page No. 6)			E	B	B	B	B	E	B	B	B
MECHANICAL VALUES	Bending strength	lb/kN	1400/6.23	2200/9.78	2200/9.78	4000/17.8	1200/5.33	1200/5.33	1200/5.33	1850/8.22	2200/9.78
	Tensile strength	lb/kN	20000/88.96	25000/111.2	25000/111.2	40000/177.92	20000/88.96	20000/88.96	20000/88.96	25000/111.2	25000/111.2
	Compression strength	lb/kN	60000/266.88	75000/333.6	75000/333.6	120000/533.76	60000/266.88	60000/266.88	60000/266.88	75000/333.6	75000/333.6
	Torsional strength	lb-inch/kNm	60000/6.78	90000/10.17	90000/10.17	120000/13.56	60000/6.78	60000/6.78	60000/6.78	90000/10.17	90000/10.17
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	275	275	275	275	315	315	315	315	315
	Impulse withstand voltage	kVp	650	650	650	650	750	750	750	750	750
	Impulse flashover voltage	kVp	710	710	710	710	810	810	810	810	810
RIV DATA	Test voltage to ground	kV	88	88	88	88	103	103	103	103	103
	Max. RIV - microvolts at 1000	kHz	200	200	200	200	500	500	500	500	500
FIXING DETAIL	TOP	No. of tapped holes (N)	4	4	4	4	4	4	4	4	4
		Tapped dia X depth	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC
		Pitch circle dia (d1)	5	5	5	5	5	5	5	5	5
		Max. cap dia (d2)	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22
	BOTTOM	No. of tapped holes (N)	4	4	4	4	4	4	4	4	4
		Tapped dia X depth	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC
		Pitch circle dia (d3)	5	5	5	5	5	5	5	5	5
		Max. cap dia (d4)	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22
Net weight (approx)		kg	94	80	88	123	86	90	106	92	137
Type of application			UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH

1. STANDARD APPLICABLE AS PER ANSI C29-1 & C29-9
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Station post insulators

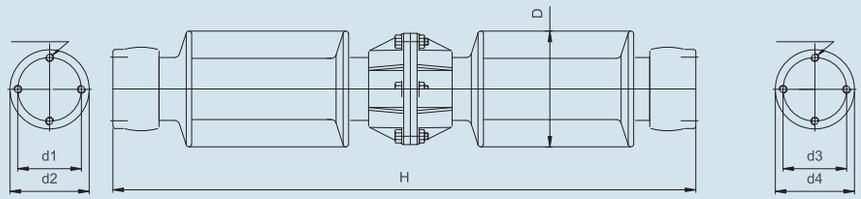


Fig. No. : 2

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

Technical referance No.			TR-304	TR-308	TR -308	TR-308	TR-308	TR-312	TR-316	TR-316
FIG. No.:-			2	2	2	2	2	2	2	2
Drawing No.			211-C-271	211-C-323	211-C-1124	211-C-770	211-C-1199	211-C-1127	211-C-258	211-C-1177
Height (H)		Inch / mm.	80/2032	80/2032	80/2032	80/2032	80/2032	92/2337	92/2337	92/2337
No. of units per stack			2	2	2	2	2	2	2	2
Min. nominal creepage distance		Inch / mm.	165/4191	165/4191	193/4900	226/5750	165/4191	198/5030	198/5030	241/6125
Largest shed dia. (D)		mm.	210	220	240	260	265	215	225	250
Type of shed (Ref. page No. 6)			B	B	E	E	B	B	E	E
MECHANICAL VALUES	Bending strength	lb/kN	950/4.22	1450/6.45	1450/6.45	1450/6.45	2750/12.23	800/3.56	1250/5.56	1250/5.56
	Tensile strength	lb/kN	20000/88.96	25000/111.2	25000/111.2	25000/111.2	40000/177.92	20000/88.96	25000/111.2	25000/111.2
	Compression strength	lb/kN	60000/266.88	90000/400.32	90000/400.32	75000/333.6	120000/533.76	60000/266.88	90000/400.32	75000/333.6
	Torsional strength	lb-inch/kNm	40000/4.52	90000/10.17	90000/10.17	90000/10.17	120000/13.56	40000/4.52	90000/10.17	90000/10.17
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	385	385	385	385	385	455	455	455
	Impulse withstand voltage	kVp	900	900	900	900	900	1050	1050	1050
	Impulse flashover voltage	kVp	1010	1010	1010	1010	1010	1210	1210	1210
RIV DATA	Test voltage to ground	kV	146	146	146	146	146	146	146	146
	Max. RIV - microvolts at 1000	kHz	500	500	500	500	500	500	500	500
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4
	Tapped dia X depth	inch	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC
	Pitch circle dia (d1)	inch	5	5	5	5	5	5	5	5
	Max. cap dia (d2)	inch	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22
FIXING DETAIL BOTTOM	No. of tapped holes (N)		4	4	4	4	4	4	4	4
	Tapped dia X depth	inch	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC
	Pitch circle dia (d3)	inch	5	5	5	5	5	5	5	5
	Max. cap dia (d4)	inch	6.22	6.22	6.22	6.22	6.22	6.22	6.22	6.22
Net weight (approx)		kg	110	124	134	150	202	132	142	164
Type of application			UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH	UP & UH

1. STANDARD APPLICABLE AS PER ANSI C29-1 & C29-9
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Station post insulators

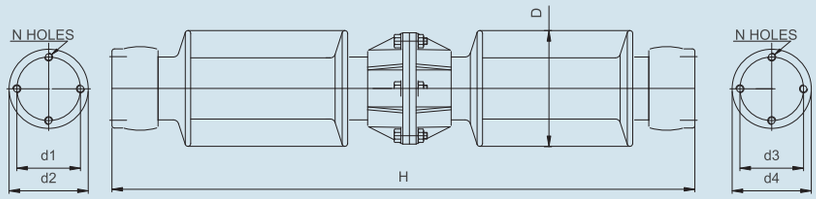


FIG. No. :-2

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

Technical referance No.			TR-362	TR -324	TR-367	TR-368	TR-369	TR-369	TR-379	TR-391
FIG. No.:-			2	2	2	2	2	2	2	-
Drawing No.			211-C-1507	211-C-731	211-C-284	211-C-1169	211-C-1183	211-C-1172	211-C-1217	211-C-382
Height (H)		Inch / mm.	92/2337	106/2692	106/2692	106/2692	106/2692	106/2692	128/3251	152/3861
No. of units per stack			2	2	2	2	2	2	2	3
Min. nominal creepage distance		Inch / mm.	198/5030	231/5868	231/5868	231/5868	231/5868	356/9043	280/7112	330/8382
Largest shed dia. (D)		mm.	260	215	240	250	250	312	250	250
Type of shed (Ref. page No. 6)			B	B	B	B	B	B	B	B
MECHANICAL VALUES	Bending strength	lb/kN	2300/10.23	1000/4.45	1450/6.45	2050/9.12	2050/9.12	2050/9.12	1700/7.56	1400/6.22
	Tensile strength	lb/kN	40000/177.92	25000/111.2	20000/88.96	40000/177.9	20000/88.96	20000/88.96	20000/88.96	20000/88.96
	Compression strength	lb/kN	100000/444.8	75000/333.6	60000/266.88	120000/533.76	60000/266.88	60000/266.88	600000/266.88	60000/266.88
	Torsional strength	lb-inch/kNm	120000/13.56	90000/10.17	40000/4.52	120000/13.56	60000/6.78	40000/4.52	60000/6.78	40000/4.52
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	455	525	525	525	525	525	620	710
	Impulse withstand voltage	kVp	1050	1300	1300	1300	1300	1300	1550	1800
	Impulse flashover voltage	kVp	1210	1410	1410	1410	1410	1410	1710	2000
RIV DATA	Test voltage to ground	kV	146	220	220	220	220	220	318	318
	Max. RIV - microvolts at 1000	kHz	500	1000	1000	1000	1000	1000	2000	2000
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4
	Tapped dia X depth	inch	3/4-10UNC	5/8-11UNC	5/8-11UNC	3/4-10UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC	5/8-11UNC
	Pitch circle dia (d1)	inch	7	5	5	7	5	5	5	5
	Max. cap dia (d2)	inch	8.5	6.22	6.22	8.5	6.22	6.22	6.22	6.22
FIXING DETAIL BOTTOM	No. of tapped holes (N)		4	4	4	4	4	4	4	4
	Tapped dia X depth	inch	3/4-10UNC	5/8-11UNC	3/4-10UNC	3/4-10UNC	3/4-10UNC	3/4-10UNC	3/4-10UNC	3/4-10UNC
	Pitch circle dia (d3)	inch	7	5	7	7	7	7	7	7
	Max. cap dia (d4)	inch	8.5	6.22	8.5	8.5	8.5	8.5	8.5	8.5
Net weight (approx)		kg	178	152	184	196	194	268	237	295
Type of application			UP	UP & UH	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER ANSI C29-1 & C29-9
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

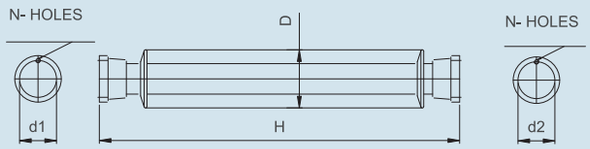


FIG. No.:- 1

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland/ Sulphur

BIL 95 - 150kVp

IEC Designation				C4-95	C4-125	C4-125	C6-125	C8-125	C8-125	C10-125	C4-150	C4-150	C10-150
FIG. No.				1	1	1	1	1	2	1	1	1	1
Drawing No.				211-C-539	211-C-540	211-C-541	211-C-542	211-C-546	211-C-556	211-C-574	211-C-512	211-C-557	211-C-919
Height (H)			mm.	255	305	305	305	305	305	305	355	355	355
No. of units per stack				1	1	1	1	1	1	1	1	1	1
Min. nominal creepage distance			mm.	280	384	600	384	380	500	500	665	744	600
Largest shed dia. (D)			mm.	180	130	195	165	175	195	195	190	210	170
Type of shed (Ref. page No. 6)				B	B	B	B	B	B	B	D	E	B
MECHANICAL VALUES	Bending strength		kN	4	4	4	6	8	8	10	4	4	10
	Tensile strength		kN	40	50	50	50	50	50	60	50	50	40
	Compression strength		kN	80	100	100	100	100	100	120	100	100	80
	Torsional strength		kNm	1	1	1	1	2	1.5	3	1	2	2
ELECTRICAL VALUES	Wet P.F. withstand voltage		kV(RMS)	40	50	50	50	50	50	50	50	50	50
	Impulse withstand voltage		kVp	95	125	125	125	125	125	125	150	150	150
	Visible discharge voltage		kV(RMS)	18	18	18	18	18	18	18	18	18	18
FIXING DETAIL	TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
		Tapped dia X depth	mm	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15
		Pitch circle dia (d1)	mm	76	76	76	76	76	76	76	76	76	76
	BOTTOM	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
		Tapped dia X depth	mm	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15
		Pitch circle dia (d2)	mm	76	76	76	76	76	76	76	76	76	76
Net weight (approx)			kg	5.5	4.5	7	9	10	12	12	11	12	12
Type of application				UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

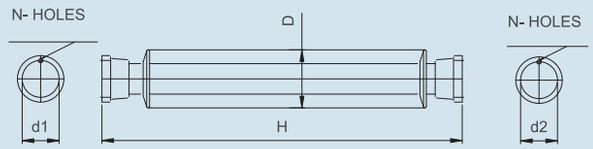


FIG. No.:- 1

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland/ Sulphur

BIL 170 - 200kVp

IEC Designation			C4-170	C4-170	C4-170	C6-170	C6-170	C8-170	C8-170	C10-170	C4-200	C6-200
FIG. No.			1	1	1	1	1	1	1	1	1	1
Drawing No.			211-C-528	211-C-053	211-C-946	211-C-572	211-C-548	211-C-580	211-C-927	211-C-944	211-C-514	211-C-552
Height (H)		mm.	445	445	445	445	445	445	445	445	475	475
No. of units per stack			1	1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		mm.	720	850	1116	850	1116	850	1116	1116	1100	950
Largest shed dia. (D)		mm.	150	170	220	200	240	200	240	240	195	200
Type of shed (Ref. page No. 6)			B	A	E	B	E	B	E	E	D	B
MECHANICAL VALUES	Bending strength	kN	4	4	4	6	6	8	8	10	4	6
	Tensile strength	kN	50	50	50	50	50	50	50	50	50	50
	Compression strength	kN	100	100	100	100	100	100	100	100	100	100
	Torsional strength	kNm	2	4.5	2	3	2	2	2	3	2	2
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	70	70	70	70	70	70	70	70	70	70
	Impulse withstand voltage	kVp	170	170	170	170	170	170	170	170	200	200
	Visible discharge voltage	kV(RMS)	27	27	27	27	27	27	27	27	27	27
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15
	Pitch circle dia (d1)	mm	76	76	76	76	76	76	76	76	76	76
FIXING DETAIL BOTTOM	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15
	Pitch circle dia (d2)	mm	76	76	76	76	76	76	76	76	76	76
Net weight (approx)		kg	9	13	17	18	21	17	21	21	15	18
Type of application			UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH	UP &UH

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

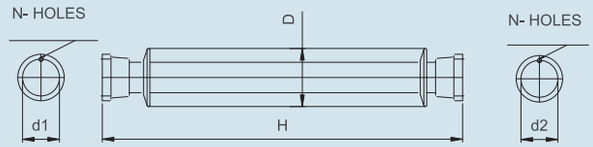


FIG. No.:- 1

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland/ Sulphur

BIL 200 - 250kVp

			IEC Designation		C6-200	C8-200	C10-200	C4-250	C4-250	C4-250	C6-250	C8-250	C8-250	C10-250
			FIG. No.		1	1	1	1	1	1	1	1	1	1
			Drawing No.		211-C-940	211-C-535	211-C-538	211-C-515	211-C-931	211-C-550	211-C-524	211-C-590	211-C-049	211-C-581
			Height (H)	mm.	475	475	475	560	560	560	560	560	560	560
			No. of units per stack		1	1	1	1	1	1	1	1	1	1
			Min. nominal creepage distance	mm.	1116	950	950	1320	1440	1612	1440	1116	1300	1200
			Largest shed dia. (D)	mm.	240	205	205	190	210	240	215	210	220	220
			Type of shed (Ref. page No. 6)		E	B	B	D	E	D	D	B	E	B
MECHANICAL VALUES			Bending strength	kN	6	8	10	4	4	4	6	8	8	10
MECHANICAL VALUES			Tensile strength	kN	50	50	60	50	50	50	60	80	40	60
MECHANICAL VALUES			Compression strength	kN	100	100	120	100	100	100	120	160	80	120
MECHANICAL VALUES			Torsional strength	kNm	2	2	3	2	2	2	2	3	2	3
ELECTRICAL VALUES			Wet P.F. withstand voltage	kV(RMS)	70	70	70	95	95	95	95	95	95	95
ELECTRICAL VALUES			Impulse withstand voltage	kVp	200	200	200	250	250	250	250	250	250	250
ELECTRICAL VALUES			Visible discharge voltage	kV(RMS)	27	27	27	27	27	27	27	27	27	27
FIXING DETAIL	TOP		No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
FIXING DETAIL	TOP		Tapped dia X depth	mm	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M16X22	M16X22	M16X22
FIXING DETAIL	TOP		Pitch circle dia (d1)	mm	76	76	76	76	76	76	76	127	127	127
FIXING DETAIL	BOTTOM		No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
FIXING DETAIL	BOTTOM		Tapped dia X depth	mm	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M12X15	M16X22	M16X22	M16X22
FIXING DETAIL	BOTTOM		Pitch circle dia (d2)	mm	76	76	76	76	76	76	76	127	127	127
			Net weight (approx)	kg	21	20	20	17	20	27	23	25	28	29
			Type of application		UP& UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815

UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

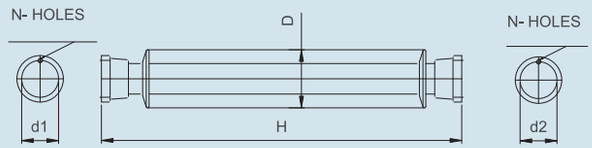


FIG. No.:- 1

BIL 325 - 350kVp

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

IEC Designation			C4-325	C4-325	C4-325	C6-325	C6-325	C8-325	C8-325	C10-325	C10-325	C4-350
FIG. No.			1	1	1	1	1	1	1	1	1	1
Drawing No.			211-C-513	211-C-536	211-C-525	211-C-068	211-C-522	211-C-080	211-C-545	211-C-957	211-C-954	211-C-575
Height (H)		mm.	770	770	770	770	770	770	770	770	770	850
No. of units per stack			1	1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		mm.	1450	1850	2344	1850	2250	1850	2250	1850	2250	1830
Largest shed dia. (D)		mm.	175	200	215	200	245	220	245	230	255	185
Type of shed (Ref. page No. 6)			A	B	E	B	E	E	E	E	E	B
MECHANICAL VALUES	Bending strength	kN	4	4	4	6	6	8	8	10	10	4
	Tensile strength	kN	70	80	60	80	70	70	70	100	100	60
	Compression strength	kN	180	200	120	200	140	140	140	200	200	120
	Torsional strength	kNm	3	3	2	4.5	4	4.5	4	4	4	3
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	140	140	140	140	140	140	140	140	140	160
	Impulse withstand voltage	kVp	325	325	325	325	325	325	325	325	325	350
	Visible discharge voltage	kV(RMS)	55	55	55	55	55	55	55	55	55	55
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d2)	mm	127	127	127	127	127	127	127	127	127	127
Net weight (approx)		kg	25	31	36	33	45	39	45	43	53	32
Type of application			UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH	UP&UH

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815

UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

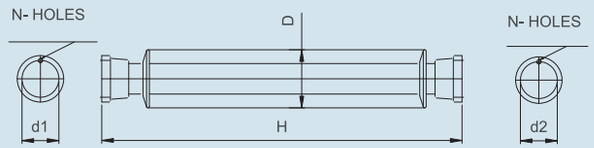


FIG. No.:- 1

BIL 350 - 450kVp

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

IEC Designation			C4-350	C6-350	C8-350	C12.5-350	C12.5-350	C4-380	C6-380	C8-380	C4-450	C4-450
FIG. No.			1	1	1	1	1	1	1	1	1	1
Drawing No.			211-C-039	211-C-502	211-C-948	211-C-056	211-C-953	211-C-510	211-C-081	211-C-949	211-C-256	211-C-660
Height (H)		mm.	850	850	850	850	850	870	870	870	1020	1020
No. of units per stack			1	1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		mm.	2248	2248	1820	1950	1820	2000	2250	1825	2000	2835
Largest shed dia. (D)		mm.	230	235	210	235	225	210	230	210	172	219
Type of shed (Ref. page No. 6)			E	E	E	A	E	A	E	E	B	B
MECHANICAL VALUES	Bending strength	kN	4	6	8	12.5	12.5	4	6	8	4	4
	Tensile strength	kN	60	80	70	80	70	70	70	70	50	60
	Compression strength	kN	120	160	140	160	140	140	140	140	100	120
	Torsional strength	kNm	3	4.5	4.5	3	5	3	4	4.5	2.5	3
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	160	160	160	160	160	170	170	170	200	200
	Impulse withstand voltage	kVp	350	350	350	350	350	380	380	380	450	450
	Visible discharge voltage	kV(RMS)	55	55	55	55	55	55	55	55	85	85
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d2)	mm	127	127	127	127	127	127	127	127	127	127
Net weight (approx)		kg	43	43	43	44	48	38	43	43	36	48
Type of application			UP&UH	UP&UH	UP&UH	UP	UP&UH	UP	UP&UH	UP&UH	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815

UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

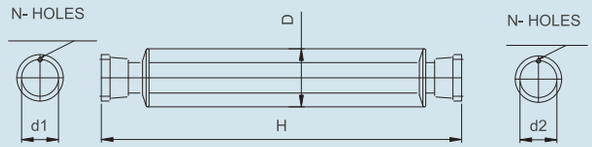


FIG. No.:- 1

BIL 450 - 550kVp

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

IEC Designation			C4-450	C6-450	C4-550	C4-550	C4-550	C6-550	C6-550	C6-550	C6-550	C6-550
FIG. No.			1	1	1	1	1	1	1	1	1	1
Drawing No.			211-C-662	211-C-635	211-C-037	211-C-158	211-C-698	211-C-120	211-C-657	211-C-629	211-C-655	211-C-1018
Height (H)		mm.	1020	1020	1220	1220	1220	1220	1220	1220	1220	1220
No. of units per stack			1	1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		mm.	3150	2300	3200	3815	4495	2600	3075	3200	3800	4495
Largest shed dia. (D)		mm.	245	210	195	235	280	195	220	210	265	280
Type of shed (Ref. page No. 6)			E	B	E	E	E	B	B	B	E	E
MECHANICAL VALUES	Bending strength	kN	4	6	4	4	4	6	6	6	6	6
	Tensile strength	kN	60	70	60	60	60	80	70	90	90	60
	Compression strength	kN	120	140	120	120	120	160	140	180	180	120
	Torsional strength	kNm	3	4	3	3	3	4.5	4	5	3	3
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	200	200	230	230	230	230	230	230	230	230
	Impulse withstand voltage	kVp	450	450	550	550	550	550	550	550	550	550
	Visible discharge voltage	kV(RMS)	85	85	105	105	105	105	105	105	105	105
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of tapped holes(N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d2)	mm	127	127	127	127	127	127	127	127	127	127
Net weight (approx)		kg	58	46	48	62	90	50	58	67	81	90
Type of application			UP&UH	UP	UP	UP	UP & UH	UP	UP	UP & UH	UP & UH	UP&UH

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815

UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

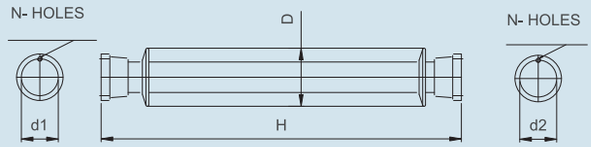


FIG. No.:- 1

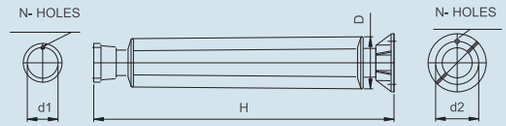


FIG. No.:- 2

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 550kVp

IEC Designation			C8-550	C8-550	C10-550	C10-550	C10-550	C10-550	C12.5-550	C20-550	T2-550	T2-550
FIG. No.			2	1	2	2	2	1	2	2	2	2
Drawing No.			211-C-608	211-C-667	211-C-685	211-C-670	211-C-190	211-C-1007	211-C-663	211-C-1014	211-C-661	211-C-675
Height (H)		mm.	1220	1220	1220	1220	1220	1220	1220	1220	1220	1220
No. of units per stack			1	1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		mm.	3075	3813	3075	3350	3813	4400	3075	3075	3150	3225
Largest shed dia. (D)		mm.	220	265	240	250	265	295	255	270	180	195
Type of shed (Ref. page No. 6)			E	E	B	B	D	E	B	E	B	E
MECHANICAL VALUES	Bending strength	kN	8	8	10	10	10	10	12.5	20	1	1
	Tensile strength	kN	95	80	95	95	95	90	140	140	40	40
	Compression strength	kN	190	160	190	190	190	180	280	280	80	80
	Torsional strength	kNm	4.5	4.5	4	4	4	7	6	3	2	2
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	230	230	230	230	230	230	230	230	230	230
	Impulse withstand voltage	kVp	550	550	550	550	550	550	550	550	550	550
	Visible discharge voltage	kV(RMS)	105	105	105	105	105	105	105	105	105	105
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	DIA. 12	M16X22
	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of holes (N)		4	4	4	4	4	4	8	8	4	4
	Hole dia	mm	M16X22	M16X22	18	18	18	M16X22	18	18	12	M16X22
	Pitch circle dia (d2)	mm	127	127	225	225	225	127	254	275	127	127
Net weight (approx)		kg	62	84	78	81	81	102	88	85	39	42
Type of application			UP	UP &UH	UP	UP	UP	UP&UH	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815

UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

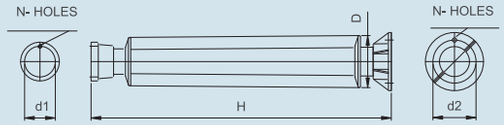


FIG. No.:- 2

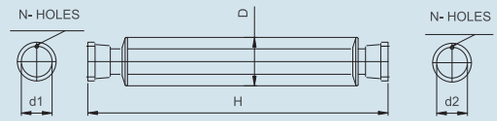


FIG. No.:- 1

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 550-650kVp

IEC Designation			T2.5-550	C4-650	C4-650	C4-650	C4-650	C6-650	C6-650	C6-650	C6-650	C6-650
FIG. No.			1	2	2	2	2	2	2	1	2	2
Drawing No.			211-C-659	211-C-181	211-C-182	211-C-195	211-C-700	211-C-1019	211-C-113	211-C-650	211-C-603	211-C-162
Height (H)		mm.	1220	1500	1500	1500	1500	1500	1500	1500	1500	1500
No. of units per stack			1	1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		mm.	4000	3100	3813	4500	5075	2900	3700	3625	3875	4500
Largest shed dia. (D)		mm.	235	180	210	245	271	180	210	215	285	245
Type of shed (Ref. page No. 6)			E	B	E	E	E	B	E	B	PU	E
MECHANICAL VALUES	Bending strength	kN	1	4	4	4	4	6	6	6	6	6
	Tensile strength	kN	40	70	70	80	70	80	80	125	80	80
	Compression strength	kN	80	140	140	160	140	160	160	250	160	160
	Torsional strength	kNm	2.5	3	3	4	3	3	4.5	9.5	3	4.5
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	230	275	275	275	275	275	275	275	275	275
	Impulse withstand voltage	kVp	550	650	650	650	650	650	650	650	650	650
	Visible discharge voltage	kV(RMS)	105	105	105	105	105	105	105	105	105	105
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of holes (N)		4	4	4	4	4	4	4	4	4	4
	Hole dia	mm	M16X22	18	18	18	18	18	18	M16X22	18	18
	Pitch circle dia (d2)	mm	127	200	200	200	200	200	200	127	200	200
Net weight (approx)		kg	64	54	67	86	101	54	67	79	101	86
Type of application			UP	UP	UP	UP	UP	UP	UP	UP&UH	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815

UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

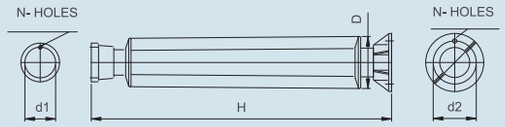


FIG. No.:- 2

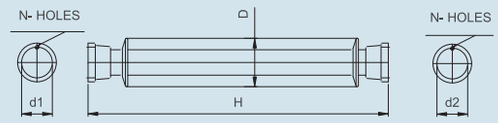


FIG. No.:- 1

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 650-750kVp

IEC Designation			C6-650	C8-650	C8-650	C8-650	C8-650	C10-650	C12.5-650	T2.5-650	T3-650	C4-750
FIG. No.			1	1	1	2	2	2	2	1	1	2
Drawing No.			211-C-653	211-C-152	211-C-669	211-C-200	211-C-161	211-C-189	211-C-605	211-C-1009	211-C-1043	211-C-188
Height (H)		mm.	1500	1500	1500	1500	1500	1500	1500	1500	1500	1700
No. of units per stack			1	1	1	1	1	1	1	1	1	1
Min. nominal creepage distance		mm.	4500	2900	3815	4000	4500	4495	3650	2900	3625	4250
Largest shed dia. (D)		mm.	250	215	230	230	250	250	225	150	180	210
Type of shed (Ref. page No. 6)			E	E	E	E	D	D	B	B	B	E
MECHANICAL VALUES	Bending strength	kN	6	8	8	8	8	10	12.5	1.0	1.0	4
	Tensile strength	kN	90	100	100	100	100	110	160	40	40	70
	Compression strength	kN	180	200	200	200	200	220	280	80	80	140
	Torsional strength	kNm	3	4	4	4	4	4	6	2.5	3	3
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	275	275	275	275	275	275	275	275	275	325
	Impulse withstand voltage	kVp	650	650	650	650	650	650	650	650	650	750
	Visible discharge voltage	kV(RMS)	105	105	105	105	105	105	105	105	105	120
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of holes (N)		4	4	4	4	4	8	8	4	4	4
	Hole dia	mm	M16X22	M16X22	M16X22	18	18	18	18	M16X22	M16X22	18
	Pitch circle dia (d2)	mm	127	127	127	225	225	254	254	127	127	200
Net weight (approx)		kg	95	77	96	82	89	95	97	38	53	74
Type of application			UP & UH	UP & UH	UP & UH	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

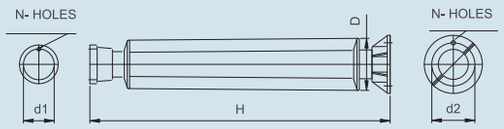


FIG. No.:- 2

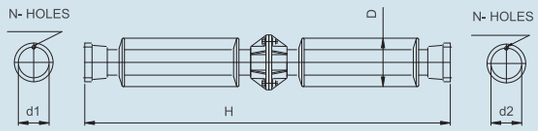


FIG. No.:- 4

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 750kVp

IEC Designation			C4-750	C4-750	C6-750	C6-750	C6-750	C8-750	C8-750	C8-750	T2-750	T2-750
FIG. No.			2	2	2	2	2	2	2	2	4	4
Drawing No.			211-C-186	211-C-637	211-C-167	211-C-171	211-C-636	211-C-179	211-C-634	211-C-255	211-C-196	211-C-1058
Height (H)		mm.	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
No. of units per stack			1	1	1	1	1	1	1	1	2	2
Min. nominal creepage distance		mm.	5270	5600	3625	4250	5270	3625	4250	5270	4250	5270
Largest shed dia. (D)		mm.	265	265	225	225	265	235	230	276	190	225
Type of shed (Ref. page No. 6)			E	E	B	E	E	B	E	E	E	E
MECHANICAL VALUES	Bending strength	kN	4	4	6	6	6	8	8	8	0.6	0.6
	Tensile strength	kN	70	70	80	80	80	95	95	100	40	40
	Compression strength	kN	140	140	160	160	160	190	190	200	80	80
	Torsional strength	kNm	3	4	4.5	4.5	4	4	4	4	2	2
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	325	325	325	325	325	325	325	325	325	325
	Impulse withstand voltage	kVp	750	750	750	750	750	750	750	750	750	750
	Visible discharge voltage	kV(RMS)	120	120	120	120	120	120	120	120	120	120
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	8	8
	Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	DIA 12	DIA 12
	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of holes (N)		4	4	4	4	4	4	4	4	8	8
	Hole dia	mm	18	M16X22	18	18	18	18	18	18	DIA 12	DIA 12
	Pitch circle dia (d2)	mm	200	127	225	225	225	225	225	225	127	127
Net weight (approx)		kg	118	122	84	90	118	90	97	131	58	72
Type of application			UP	UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815

UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

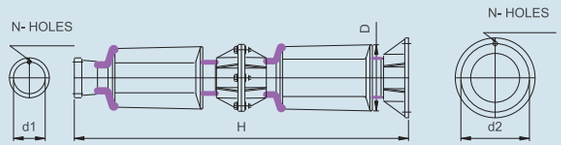


FIG. No.:- 3

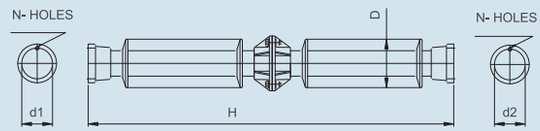


FIG. No.:- 4

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 950kVp

IEC Designation				C4-950	C6-950	C6-950	C6-950	C8-950	C8-950	T2.5-950	T3-950	T3-950
FIG No.				3	3	3	3	3	3	4	4	4
Drawing No.				211-C-296	211-C-719	211-C-759	211-C-1154	211-C-1546	211-C-1151	211-C-1121	211-C-760	211-C-1155
Height (H)			mm.	2100	2100	2100	2100	2100	2100	2100	2100	2100
No. of units per stack				2	2	2	2	2	2	2	2	2
Min. nominal creepage distance			mm.	4900	4900	6300	7600	4900	6125	4900	6300	7600
Largest shed dia. (D)			mm.	210	250	265	300	240	275	175	205	260
Type of shed (Ref. page No. 6)				B	E	E	E	E	E	E	E	E
Mechanical Values	Bending strength		kN	4	6	6	6	8	8	0.6	0.6	0.6
	Tensile strength		kN	80	110	110	110	110	110	45	45	45
	Compression strength		kN	160	220	220	220	220	220	80	80	80
	Torsional strength		kNm	3	4	3	4	3	3	2.5	3	3
Electrical Values	Wet P.F. withstand voltage		kV(RMS)	395	395	395	395	395	395	395	395	395
	Impulse withstand voltage		kVp	950	950	950	950	950	950	950	950	950
	Visible discharge voltage		kV(RMS)	154	154	154	154	154	154	154	154	154
	Swit. Imp. withstand voltage		kVp	750	750	750	750	750	750	750	750	750
Fixing Detail	Top	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4
		Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	DIA 12	M16X22
		Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127
	Bottom	No. of holes (N)		4	4	4	4	4	8	4	4	4
		Hole dia	mm	18	18	18	18	18	18	M16X22	12	M16X22
		Pitch circle dia (d2)	mm	225	225	225	225	225	254	127	127	127
Net weight (approx)			kg	104	115	137	175	126	153	66	80	126
Type of application				UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

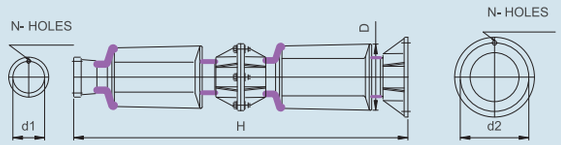


FIG. No.:- 3

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 1050kVp

IEC Designation			C4-1050	C4-1050	C4-1050	C6-1050	C6-1050	C6-1050	C8-1050	C8-1050	C8-1050
FIG. No.			3	3	3	3	3	3	3	3	3
Drawing No.			211-C-743	211-C-227M	211-C-724	211-C-269	211-C-232	211-C-1108	211-C-289	211-C-268	211-C-280
Height (H)		mm.	2300	2300	2300	2300	2300	2300	2300	2300	2300
No. of units per stack			2	2	2	2	2	2	2	2	2
Min. nominal creepage distance		mm.	4900	6125	7595	4900	6300	7812	4900	6125	7812
Largest shed dia. (D)		mm.	210	245	286	220	250	286	235	265	305
Type of shed (Ref. page No. 6)			B	E	E	B	E	E	E	E	E
Mechanical Values	Bending strength	kN	4	4	4	6	6	6	8	8	8
	Tensile strength	kN	80	80	100	110	110	110	130	130	130
	Compression strength	kN	160	160	200	220	220	220	270	270	270
	Torsional strength	kNm	3	4.5	4	4	4.5	4.5	5	5	5
Electrical Values	Wet P.F. withstand voltage	kV(RMS)	460	460	460	460	460	460	460	460	460
	Impulse withstand voltage	kVp	1050	1050	1050	1050	1050	1050	1050	1050	1050
	Visible discharge voltage	kV(RMS)	154	154	154	154	154	154	154	154	154
	Swit. Imp. withstand voltage	kVp	750	750	750	750	750	750	750	750	750
Fixing Detail	Top: No. of tapped holes (N)		4	4	4	4	4	4	4	4	4
	Top: Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Top: Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127
	Bottom: No. of holes (N)		4	4	4	4	4	4	8	8	8
	Bottom: Hole dia	mm	18	18	18	18	18	18	18	18	18
	Bottom: Pitch circle dia (d2)	mm	200	200	200	225	225	225	254	254	254
Net weight (approx)		kg	100	117	165	114	141	166	136	159	188
Type of application			UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

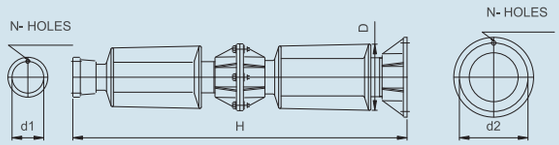


FIG. No.:- 3

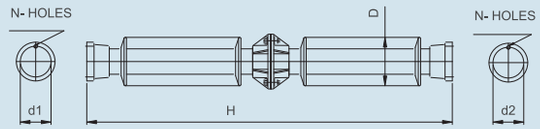


FIG. No.:- 4

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 1050-1175kVp

	IEC Designation			C10-1050	C10-1050	C12.5-1050	C12.5-1050	T2-1050	T3.5-1050	T3-1050	C4-1175	C6-1175
	FIG. No.			3	3	3	3	4	4	4	3	3
	Drawing No.			211-C-706	211-C-754	211-C-1110	211-C-1522	211-C-721	211-C-235	211-C-764	211-C-1170	211-C-262
	Height (H)		mm.	2300	2300	2300	2300	2300	2300	2300	2650	2650
	No. of units per stack			2	2	2	2	2	2	2	2	2
	Min. nominal creepage distance		mm.	6125	7600	6200	7600	4900	6841	7600	9300	6125
	Largest shed dia. (D)		mm.	265	320	300	320	165	205	235	286	235
	Type of shed (Ref. page No. 6)			E	E	E	E	B	D	E	E	E
	Bending strength		kN	10	10	12.5	12.5	0.6	1.0	1.0	4	6
MECHANICAL VALUES	Tensile strength		kN	160	160	180	180	40	40	45	110	110
	Compression strength		kN	320	320	360	360	80	80	80	270	220
	Torsional strength		kNm	4	4	6	6	2	3.5	3	5	4.5
ELECTRICAL VALUES	Wet P.F. withstand voltage		kV(RMS)	460	460	460	460	460	460	460	510	510
	Impulse withstand voltage		kVp	1050	1050	1050	1050	1050	1050	1050	1175	1175
	Visible discharge voltage		kV(RMS)	154	154	154	154	154	154	154	187	187
	Swit. Imp. withstand voltage		kVp	750	750	750	750	750	750	750	850	850
FIXING DETAIL	TOP	No. of tapped holes (N)		4	4	4	4	8	4	4	4	4
		Tapped dia X depth	mm	M16X22	M16X22	M16X22	M16X22	DIA 12	M16X22	M16X22	M16X22	M16X22
		Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127
	BOTTOM	No. of holes (N)		8	8	8	8	8	4	4	4	8
		Hole dia	mm	18	18	18	18	DIA 12	M16X22	M16X22	18	18
		Pitch circle dia (d2)	mm	275	275	275	275	127	127	127	225	254
	Net weight (approx)		kg	168	220	193	220	64	94	116	193	147
	Type of application			UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

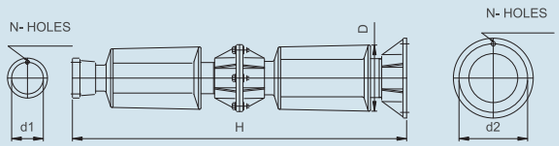


FIG. No.:- 3

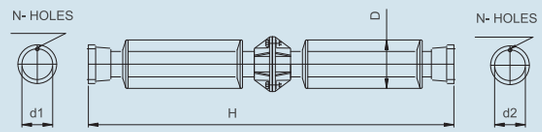


FIG. No.:- 4

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 1175-1300kVp

	IEC Designation		C6-1175	C8-1175	T2-1175	C4-1300	C4-1300	C6-1300	C8-1300	C8-1300	C8-1300
	FIG. No.		3	3	4	3	3	3	3	3	3
	Drawing No.		211-C-244	211-C-709	211-C-723	211-C-749	211-C-1114	211-C-291	211-C-767	211-C-1126	211-C-1535
	Height (H)	mm.	2650	2650	2650	2900	2900	2900	2900	2900	2900
	No. of units per stack		2	2	2	2	2	2	2	2	2
	Min. nominal creepage distance	mm.	7600	7929	6125	6366	7250	7300	6400	7300	9050
	Largest shed dia. (D)	mm.	265	300	165	215	245	265	270	270	300
	Type of shed (Ref. page No. 6)		D	D	B	B	B	E	B	B	E
	Bending strength	kN	6	8	0.6	4	4	6	8	8	8
MECHANICAL VALUES	Tensile strength	kN	130	140	40	90	90	110	140	170	140
	Compression strength	kN	260	180	80	180	180	220	280	350	280
	Torsional strength	kNm	4	5	2	3	3	4	4	8	4
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	510	510	510	570	570	570	570	570	570
	Impulse withstand voltage	kVp	1175	1175	1175	1300	1300	1300	1300	1300	1300
	Visible discharge voltage	kV(RMS)	187	187	187	225	225	225	225	225	225
	Swit. Imp. withstand voltage	kVp	850	850	850	950	950	950	950	950	950
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	8	4	4	4	4	4	4
	Tapped dia X depth	mm	M16X22	M16X22	DIA12	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of holes (N)		8	8	8	4	4	8	8	8	8
	Hole dia	mm	18	18	DIA12	18	18	18	18	18	18
	Pitch circle dia (d2)	mm	254	254	127	225	225	254	254	275	275
	Net weight (approx)	kg	183	211	74	146	157	178	201	211	258
	Type of application		UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

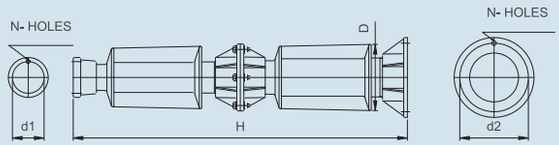


FIG. No.:- 3

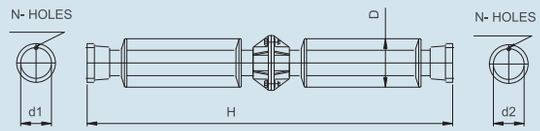


FIG. No.:- 4

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 1300-1425kVp

	IEC Designation		C10-1300	T3-1300	T3-1300	C6-1425	C6-1425	C8-1425	C8-1425	C10-1425	C10-1425
	FIG. No.		3	4	4	3	3	3	3	3	3
	Drawing No.		211-C-1113	211-C-725	211-C-1195	211-C-348	211-C-365	211-C-375	211-C-1213	211-C-810	211-C-824
	Height (H)	mm.	2900	2900	2900	3150	3150	3150	3150	3150	3150
	No. of units per stack		2	2	2	2	2	2	2	2	2
	Min. nominal creepage distance	mm.	7300	7300	9050	8600	10500	10500	11222	8400	10790
	Largest shed dia. (D)	mm.	290	175	235	265	305	307	307	275	316
	Type of shed (Ref. page No. 6)		B	B	E	D	E	E	E	D	E
	Bending strength	kN	10	0.6	0.6	6	6	8	8	10	10
MECHANICAL VALUES	Tensile strength	kN	160	40	40	110	110	180	180	140	190
MECHANICAL VALUES	Compression strength	kN	350	80	80	220	220	360	360	280	380
MECHANICAL VALUES	Torsional strength	kNm	10	3	3	4	4	6	6	6	6
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	570	570	570	630	630	630	630	630	630
ELECTRICAL VALUES	Impulse withstand voltage	kVp	1300	1300	1300	1425	1425	1425	1425	1425	1425
ELECTRICAL VALUES	Visible discharge voltage	kV(RMS)	225	225	225	320	320	320	320	320	320
ELECTRICAL VALUES	Swit. Imp. withstand voltage	kVp	950	950	950	950	950	950	950	950	950
FIXING DETAIL TOP	No. of tapped holes (N)		4	8	4	4	4	4	4	4	4
FIXING DETAIL TOP	Tapped dia X depth	mm	M16X22	DIA 12	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22
FIXING DETAIL TOP	Pitch circle dia (d1)	mm	127	127	127	127	127	127	127	127	127
FIXING DETAIL BOTTOM	No. of holes (N)		8	4	4	8	8	8	8	8	8
FIXING DETAIL BOTTOM	Hole dia	mm	18	12	M16X22	18	18	18	18	18	18
FIXING DETAIL BOTTOM	Pitch circle dia (d2)	mm	275	127	127	254	254	275	275	300	300
	Net weight (approx)	kg	234	108	158	215	276	285	304	249	316
	Type of application		UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

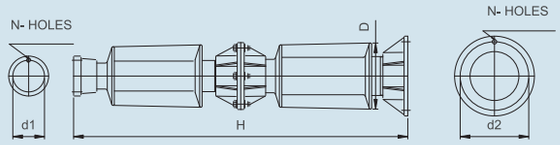


FIG. No.:- 3

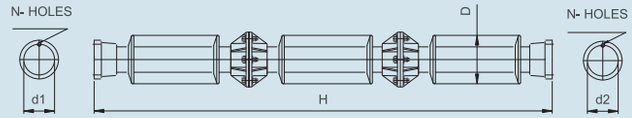


FIG. No.:- 6

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 1425 - 1550kVp

	IEC Designation			C12-1425	C12.5-1425	T1.5-1425	C6-1550	C8-1550	C8-1550	C10-1550	C10-1550	C12.5-1550
	FIG. No.			3	3	6	3	3	3	3	3	3
	Drawing No.			211-C-831	211-C-821	211-C-816	211-C-371	211-C-839	211-C-328	211-C-872	211-C-828	211-C-818
	Height (H)		mm.	3150	3150	3150	3350	3350	3350	3350	3350	3350
	No. of units per stack			2	2	3	2	2	2	2	2	2
	Min. nominal creepage distance		mm.	8400	10500	10920	10920	8500	11000	8500	11000	8500
	Largest shed dia. (D)		mm.	310	325	250	300	275	307	310	316	310
	Type of shed (Ref. page No. 6)			B	E	E	E	B	E	B	E	B
	Bending strength		kN	12	12.5	0.6	6	8	8	10	10	12.5
MECHANICAL VALUES	Tensile strength		kN	180	180	40	145	170	180	100	190	180
	Compression strength		kN	360	360	80	290	340	360	340	380	360
	Torsional strength		kNm	6	6	1.5	4	8	8	10	6	6
ELECTRICAL VALUES	Wet P.F. withstand voltage		kV(RMS)	630	630	630	680	680	680	680	680	680
	Impulse withstand voltage		kVp	1425	1425	1425	1550	1550	1550	1550	1550	1550
	Visible discharge voltage		kV(RMS)	320	320	320	320	320	320	320	320	320
	Swit. Imp. withstand voltage		kVp	950	950	950	1050	1050	1050	1050	1050	1050
FIXING DETAIL	TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	8
		Tapped dia X depth	mm	M16X22	M16X22	DIA 15	M16X22	M16X22	M16X22	M16X22	M16X22	DIA 18
		Pitch circle dia (d1)	mm	127	127	144	127	127	127	127	127	225
	BOTTOM	No. of holes (N)		8	8	4	8	8	8	8	8	8
		Hole dia	mm	18	18	DIA 15	18	18	18	18	18	18
		Pitch circle dia (d2)	mm	325	325	144	254	275	275	300	300	325
	Net weight (approx)		kg	249	341	180	287	256	305	299	327	303
	Type of application			UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

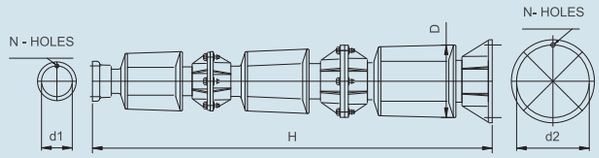


FIG. No.:- 5

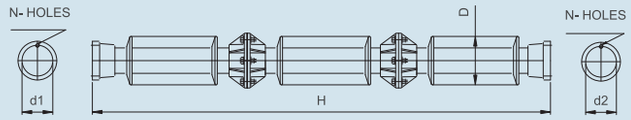


FIG. No.:- 6

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 1550 - 1675kVp

	IEC Designation			C12.5-1550	T4.5-1550	T3-1550	C6-1675	C8-1675	C10-1675	C12.5-1675	T3-1675	T3-1675
	FIG. No.			3	4	6	5	5	5	5	6	6
	Drawing No.			211-C-815	211-C-819	211-C-337	211-C-367	211-C-347	211-C-344	211-C-1220	211-C-313	211-C-363
	Height (H)		mm.	3350	3350	3350	3650	3650	3650	3650	3650	3650
	No. of units per stack			2	2	3	3	3	3	3	3	3
	Min. nominal creepage distance		mm.	10500	8500	11000	10500	10500	10500	10500	10500	10500
	Largest shed dia. (D)		mm.	325	208	220	300	310	323	320	205	195
	Type of shed (Ref. page No. 6)			E	B	D	E	E	E	E	D	D
	Bending strength		kN	12.5	2	2	6	8	10	12.5	0.6	0.6
MECHANICAL VALUES	Tensile strength		kN	200	80	40	180	180	180	180	40	40
	Compression strength		kN	400	160	80	360	360	360	360	80	80
	Torsional strength		kNm	6	4.5	3	6	4	6	6	3	2.5
ELECTRICAL VALUES	Wet P.F. withstand voltage		kV(RMS)	680	680	680	680	680	680	680	680	680
	Impulse withstand voltage		kVp	1550	1550	1550	1675	1675	1675	1675	1675	1675
	Visible discharge voltage		kV(RMS)	320	320	320	320	320	320	320	320	320
	Swit. Imp. withstand voltage		kVp	1050	1050	1050	1050	1050	1050	1050	1050	1050
FIXING DETAIL	TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	8
		Tapped dia X depth	mm	DIA 18	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	M16X22	DIA 12
		Pitch circle dia (d1)	mm	225	127	127	127	127	127	127	127	127
	BOTTOM	No. of holes (N)		8	4	4	8	8	8	8	4	8
		Hole dia	mm	18	13	M16X22	18	18	18	18	M16X22	12
		Pitch circle dia (d2)	mm	325	170	127	275	300	300	325	127	127
	Net weight (approx)		kg	359	163	154	296	313	339	394	147	126
	Type of application			UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

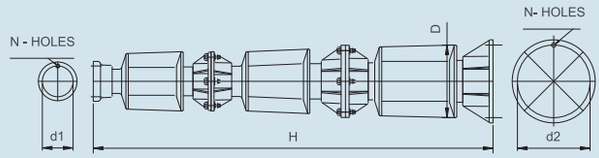


FIG. No.:- 5

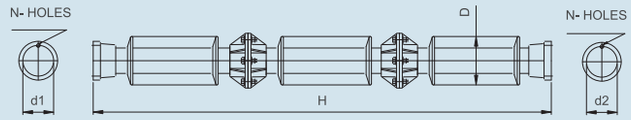


FIG. No.:- 6

Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

BIL 1800 - 2250kVp

	IEC Designation		C6-1800	C8-1800	C8-1800	C10-1800	C10-1800	T3-1800	T3-1800	C6-1950	C8-2250
	FIG. No.		5	5	5	5	5	6	6	5	5
	Drawing No.		211-C-811	211-C-845	211-C-388	211-C-847	211-C-827	211-C-846	211-C-389	211-C-393	211-C-837
	Height (H)	mm.	4000	4000	4000	4000	4000	4000	4000	4400	5000
	No. of units per stack		3	3	3	3	3	3	3	3	3
	Min. nominal creepage distance	mm.	13020	11000	13750	11000	13750	11000	13750	13580	16800
	Largest shed dia. (D)	mm.	307	300	340	305	345	205	245	295	335
	Type of shed (Ref. page No. 6)		E	E	E	E	E	E	E	E	E
	Bending strength	kN	6	8	8	10	10	0.6	0.6	6	8
MECHANICAL VALUES	Tensile strength	kN	145	180	180	190	190	40	80	145	180
	Compression strength	kN	290	360	360	380	380	80	40	290	360
	Torsional strength	kNm	6	6	6	6	6	3	3	4	4
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	680	680	680	680	680	680	680	700	830
	Impulse withstand voltage	kVp	1800	1800	1800	1800	1800	1800	1800	1950	2250
	Visible discharge voltage	kV(RMS)	320	320	320	320	320	320	320	320	510
	Swit. Imp. withstand voltage	kVp	1175	1175	1175	1175	1175	1175	1175	1300	1425
FIXING DETAIL TOP	No. of tapped holes (N)		4	4	4	4	4	4	4	4	4
	Tapped dia X depth	mm	DIA 18	M16X22	M16X22	M16X22	DIA 18	M16X22	M16X22	M16X22	DIA 18
	Pitch circle dia (d1)	mm	225	127	127	127	225	127	127	127	225
FIXING DETAIL BOTTOM	No. of holes (N)		8	8	8	8	8	4	4	8	8
	Hole dia	mm	18	18	18	18	18	M16X22	M16X22	18	18
	Pitch circle dia (d2)	mm	275	300	300	300	300	127	127	275	300
	Net weight (approx)	kg	344	341	427	419	441	154	231	358	553
	Type of application		UP	UP	UP	UP	UP	UP	UP	UP	UP

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815

UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES

Solid Core post insulators

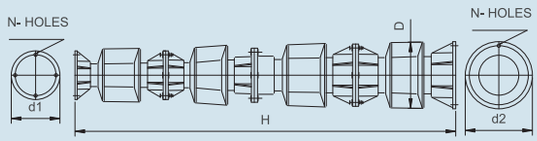


FIG .No. :- 7

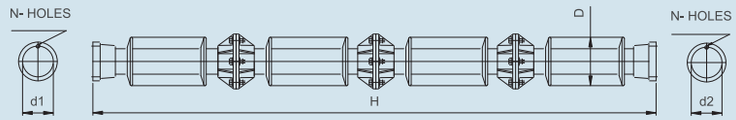


FIG.No.;- 8

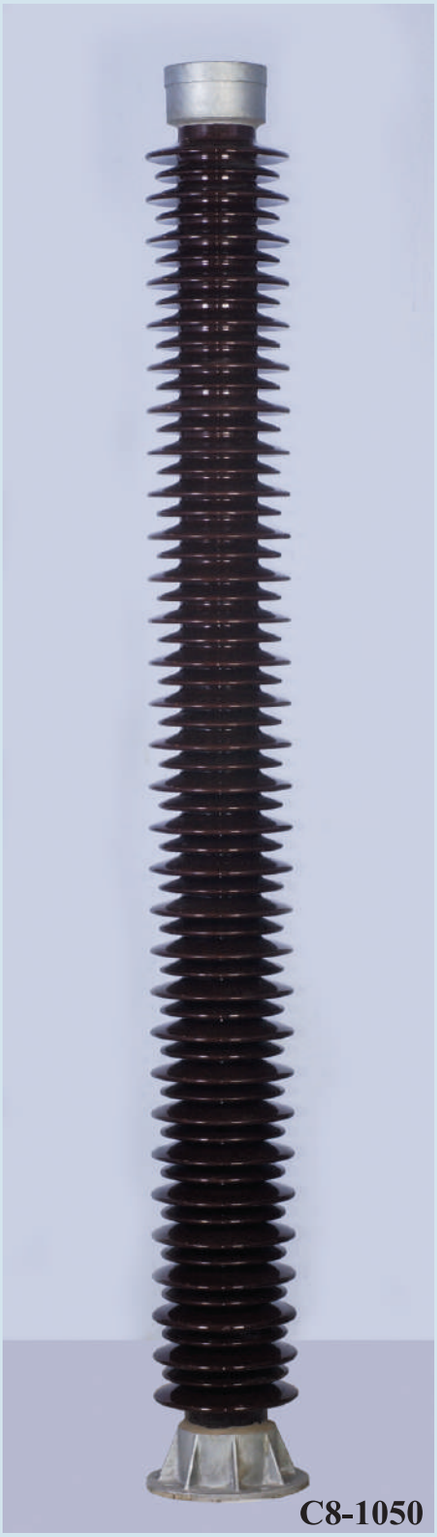
Glaze:- Brown & Grey
Fitting:- MCI/SGI (Hot dip galvanized)
Cement :- Portland

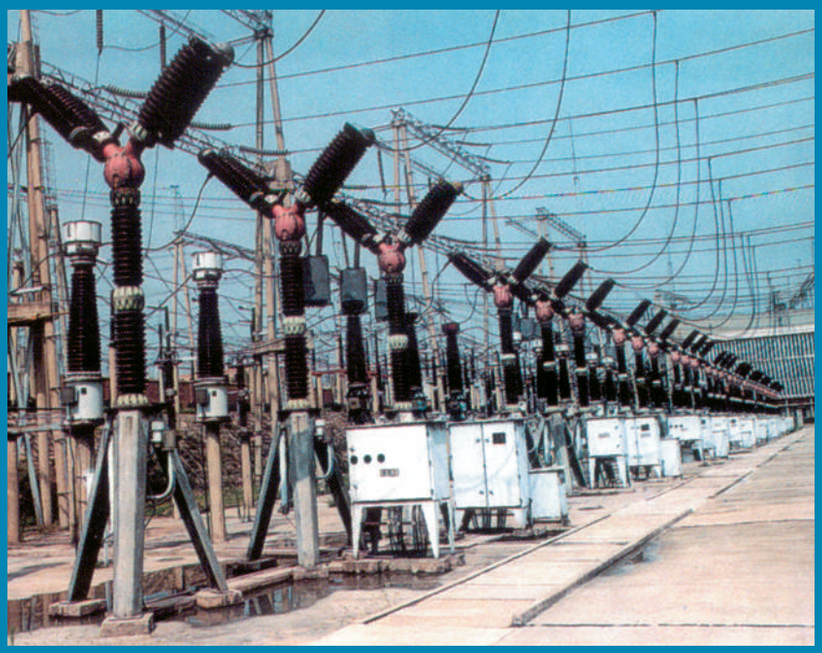
BIL - 2550kVp

IEC Designation			C10-2250	C12.5-2250	C8-2550	T2-2550					
FIG. No.			5	5	7	8					
Drawing No.			211-C-1223	211-C-1224	211-C-841	211-C-842					
Height (H)		mm.	5000	5000	5700	5700					
No. of units per stack			3	3	4	4					
Min. nominal creepage distance		mm.	16800	16800	20000	20000					
Largest shed dia. (D)		mm.	340	365	365	265					
Type of shed (Ref. page No. 6)			E	E	E	E					
Bending strength		kN	10	12.5	8	1					
MECHANICAL VALUES	Tensile strength	kN	190	200	180	100					
	Compression strength	kN	380	400	360	200					
	Torsional strength	kNm	6	6	6	2					
ELECTRICAL VALUES	Wet P.F. withstand voltage	kV(RMS)	830	830	830	830					
	Impulse withstand voltage	kVp	2250	2250	2550	2550					
	Visible discharge voltage	kV(RMS)	510	510	510	510					
	Swit. Imp. withstand voltage	kVp	1550	1550	1550	1550					
FIXING DETAIL	TOP	No. of tapped holes (N)	4	4	4	4					
		Tapped dia X depth mm	DIA 18	DIA 18	DIA 18	M16X22					
		Pitch circle dia (d1) mm	225	225	225	127					
	BOTTOM	No. of holes (N)	8	8	8	4					
		Hole dia mm	18	18	18	M16X22					
		Pitch circle dia (d2) mm	325	356	325	127					
Net weight (approx)		kg	563	648	738	396					
Type of application			UP	UP	UP	UP					

1. STANDARD APPLICABLE AS PER IS:2544/IS:5350-II/IEC:60168/IEC:273
2. SHED PROFILE AS PER IEC:60815
UP :- Upright
UH :- Under hung

SUBJECT TO TECHNICAL CHANGES


C8-1050



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