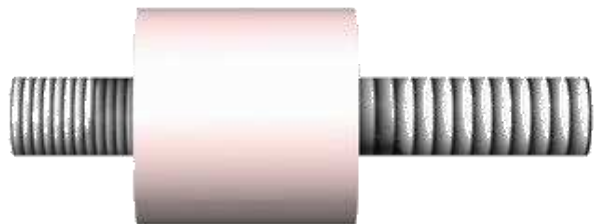

Cylindrical insulators



Our cylindrical insulators are electric insulators including a polyester and glass fibre body mounted with steel inserts which are used as attachment points.

They are intended for electrical and electronics industries.



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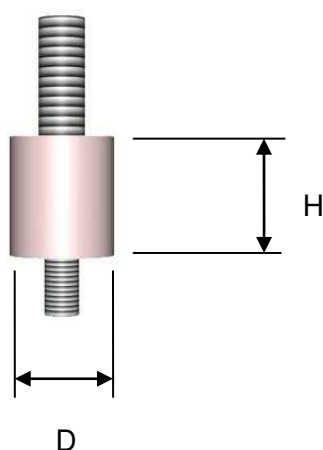


1. DIMENSIONS OF INSULATING BODY

The insulating body of our cylindrical insulators is defined according to different parameters :

- Height
- Diameter

Hereunder is the chart of the different dimensions of insulating bodies :



D Diameter in mm	H Hauteur in mm
10	10
14	14
14	17
14	26
14	34
14	40
14	60
20	18
28	28

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2. COMBINATIONS OF INSERTS

The attachment points of the insulators are made with inserts, either male or female. Here are the various possible combinations :

Item code	Body shape	Body Diameter	Body Height	Type of 1st insert	Tapping diameter / Threading X Length of insert (mm)	Type of 2 nd insert	Tapping diameter / Threading X Length of insert (mm)
002150	CYLINDRICAL	10	10	MALE	3X05	MALE	3X05
002151	CYLINDRICAL	10	10	MALE	3X05	MALE	3X10
002152	CYLINDRICAL	10	10	MALE	3X08	MALE	3X08
002153	CYLINDRICAL	10	10	MALE	3X10	MALE	3X10
002154	CYLINDRICAL	14	14	MALE	4X07	MALE	4X07
002155	CYLINDRICAL	14	14	MALE	4X07	MALE	4X15
002156	CYLINDRICAL	14	14	MALE	4X07	MALE	5X10
002157	CYLINDRICAL	14	14	MALE	4X10	MALE	4X10
002158	CYLINDRICAL	14	14	MALE	4X10	MALE	4X15
002159	CYLINDRICAL	14	14	MALE	4X10	MALE	5X10
002160	CYLINDRICAL	14	14	MALE	4X10	MALE	5X15
002164	CYLINDRICAL	14	14	MALE	5X08	MALE	5X15
002165	CYLINDRICAL	14	14	MALE	5X10	MALE	5X10
002166	CYLINDRICAL	14	14	MALE	5X10	MALE	5X15
002170	CYLINDRICAL	14	17	MALE	5X10	FEMALE	5X07
002168	CYLINDRICAL	14	17	MALE	5X08	FEMALE	5X07
002169	CYLINDRICAL	14	17	MALE	5X08	MALE	5X08
002172	CYLINDRICAL	14	17	MALE	5X10	MALE	5X10
002173	CYLINDRICAL	14	17	MALE	5X10	MALE	5X15
023707	CYLINDRICAL	14	26	FEMALE	4X07	FEMALE	4X07
002180	CYLINDRICAL	14	26	MALE	4X07	FEMALE	4X07
002181	CYLINDRICAL	14	26	MALE	4X10	FEMALE	4X07
002182	CYLINDRICAL	14	26	MALE	4X10	MALE	4X10
002183	CYLINDRICAL	14	26	MALE	4X10	MALE	4X15
002185	CYLINDRICAL	14	26	MALE	4X15	FEMALE	4X07
002190	CYLINDRICAL	14	26	MALE	5X15	FEMALE	5X07
002194	CYLINDRICAL	14	34	MALE	5X10	FEMALE	5X07

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Item code	Body shape	Body Diameter	Body Height	Type of 1st insert	Tapping diameter / Threading X Length of insert (mm)	Type of 2 nd insert	Tapping diameter / Threading X Length of insert (mm)
002195	CYLINDRICAL	14	34	MALE	5X10	MALE	5X10
002200	CYLINDRICAL	14	40	MALE	5X08	MALE	5X15
002201	CYLINDRICAL	14	40	MALE	5X10	FEMALE	5X07
002202	CYLINDRICAL	14	40	MALE	5X10	MALE	5X10
002206	CYLINDRICAL	14	60	MALE	5X10	MALE	5X10
019991	CYLINDRICAL	14	60	MALE	5X10	FEMALE	5X07
002216	CYLINDRICAL	20	18	MALE	6X07	MALE	6X15
002217	CYLINDRICAL	20	18	MALE	6X07	MALE	6X20
002218	CYLINDRICAL	20	18	MALE	6X07	MALE	8X15
002219	CYLINDRICAL	20	18	MALE	6X07	MALE	8X20
002220	CYLINDRICAL	20	18	MALE	6X07	MALE	8X25
002221	CYLINDRICAL	20	18	MALE	6X10	MALE	6X15
002222	CYLINDRICAL	20	18	MALE	6X10	MALE	6X20
002223	CYLINDRICAL	20	18	MALE	6X10	MALE	8X15
002224	CYLINDRICAL	20	18	MALE	6X10	MALE	8X20
002225	CYLINDRICAL	20	18	MALE	6X15	MALE	6X15
002226	CYLINDRICAL	20	18	MALE	6X15	MALE	6X20
002227	CYLINDRICAL	20	18	MALE	6X15	MALE	8X08
002228	CYLINDRICAL	20	18	MALE	6X15	MALE	8X10
002229	CYLINDRICAL	20	18	MALE	6X15	MALE	8X15
002230	CYLINDRICAL	20	18	MALE	6X15	MALE	8X20
002231	CYLINDRICAL	20	18	MALE	6X15	MALE	8X25
002232	CYLINDRICAL	20	18	MALE	6X15	MALE	8X30
002233	CYLINDRICAL	20	18	MALE	6X20	MALE	6X20
002234	CYLINDRICAL	20	18	MALE	6X20	MALE	8X08
002235	CYLINDRICAL	20	18	MALE	6X20	MALE	8X15
002236	CYLINDRICAL	20	18	MALE	6X20	MALE	8X20
002237	CYLINDRICAL	20	18	MALE	8X08	MALE	8X15
002238	CYLINDRICAL	20	18	MALE	8X08	MALE	8X20
002239	CYLINDRICAL	20	18	MALE	8X08	MALE	8X25
002240	CYLINDRICAL	20	18	MALE	8X10	MALE	8X15

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Item code	Body shape	Body Diameter	Body Height	Type of 1st insert	Tapping diameter / Threading X Length of insert (mm)	Type of 2 nd insert	Tapping diameter / Threading X Length of insert (mm)
002241	CYLINDRICAL	20	18	MALE	8X10	MALE	8X20
002242	CYLINDRICAL	20	18	MALE	8X10	MALE	8X25
002243	CYLINDRICAL	20	18	MALE	8X10	MALE	8X30
027933	CYLINDRICAL	20	18	MALE	8X12	MALE	8X25
002244	CYLINDRICAL	20	18	MALE	8X15	MALE	8X15
002245	CYLINDRICAL	20	18	MALE	8X15	MALE	8X20
002246	CYLINDRICAL	20	18	MALE	8X15	MALE	8X25
002247	CYLINDRICAL	20	18	MALE	8X20	MALE	8X20
002248	CYLINDRICAL	20	18	MALE	8X20	MALE	8X25
002249	CYLINDRICAL	20	18	MALE	8X20	MALE	8X30
002250	CYLINDRICAL	28	28	FEMALE	8X08	FEMALE	8X08
002252	CYLINDRICAL	28	28	MALE	8X20	MALE	8X30

This list is not exhaustive. For any specific inquiry, please feel free to contact us.

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3. HEXAGONAL INSERT

In some of the combinations of inserts, there is an alternative which enables to use a M8 hexagonal nut to in order to tighten more easily the insulator on its base.



Here are the different standard combinations that are possible :

(The first insert is with the hexagonal nut)

Item code	Body shape	Body Diameter	Body Height	Type of 1st insert (Hexagonal)	Tapping diameter / Threading X Length of insert (mm)	Type of 2 nd insert	Tapping diameter / Threading X Length of insert (mm)
002207	CYLINDRICAL	20	18	MALE	8X08	MALE	6X15
002208	CYLINDRICAL	20	18	MALE	8X08	MALE	8X15
002209	CYLINDRICAL	20	18	MALE	8X08	MALE	8X20
002210	CYLINDRICAL	20	18	MALE	8X08	MALE	8X30
002211	CYLINDRICAL	20	18	MALE	8X10	MALE	6X20
002212	CYLINDRICAL	20	18	MALE	8X10	MALE	8X15
002213	CYLINDRICAL	20	18	MALE	8X10	MALE	8X20
002214	CYLINDRICAL	20	18	MALE	8X10	MALE	8X25
002215	CYLINDRICAL	20	18	MALE	8X10	MALE	8X30

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4. COMPOSITION

4.1. *Insulating body :*

Thermoset plastic resin blend of various inert fillers, fiber reinforcement (20 %).

Self-extinguishing, « off white » colour.

4.2. *Turned inserts :*

Low-carbon steel Zinc Nickel 6 to 10µm (ROHS). Threaded or tapped (Standard ISO pitch):

- M3 x 0,50 M4 x 0,70 M5 x 0,80 M6 x 1,00 M8 x 1,25 M10 x 1,50

5. FIRE RESISTANCE

Fire classification: M1, I2, F1 following standard NF F 16-101 / 102.

V0/3mm (not official) Standard UL94

Operating temperature Max : 100 °C

6. ELECTRIC SPECIFICATIONS

Please find hereunder a chart showing the breakdown voltage to the puncture of insulators, according to the height of the insulator and the combination of inserts (dielectric):

Height of Insulator	mm	10	12	14	17	18	22	26	34	35	40	60
Male / Male	kV	7	11	11	11	12	15	15	20	20	23	27
Male / Female	kV		4		4		12	15	20	20	23	27
Female / Female	kV							10		12	20	23

RMS Voltage 50 Hz – 1 mn

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7. MECHANICAL SPECIFICATIONS

Below is a table of the breaking stress when pulling the insulators' body, and depending on its diameter:

Diameter of insulator (in mm)	10	14	20	28
Breaking stress by pulling (in N)	600 N	800 N	1600 N	8000 N

Below is a table of insulators' torque (maximum torque for mechanical fixing), depending on the insulators' body and diameter of inserts:

Diameter of insulator (in mm)	10	14			20	28		
Diameter of insert	M3	M4	M5	M6	M6	M8	M6	M8
Torque in Nm	1 Nm	2 Nm	4 Nm	4 Nm	10 Nm	20 Nm	10 Nm	20 Nm

The above values are the results of laboratory tests and are given for information only. It is by no means a commitment of the company.

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