Industrias GALARZA, S.A.®

Leaders in electrical conductivity since 1958

CATALOGUE 2020

DESCRIPTION	SERIES
	INSULATORS AND MOULDED PIECES

GENERAL SALES CONDITIONS, SUPPLY AND WARRANTY

Generalities

The supply of the products contained in this catalogue is subject to the conformity of the tariff in force at the moment and the terms contained in these General Conditions of Sale and Guarantees.

Orders and prices

All orders received by IGA will be confirmed via fax or email. If in the following 24 hours IGA does not receive any claim, they will be considered definitive. IGA reserves the right to accept or reject any order.

Codes

The codes indicated in this catalogue are the standard products of IGA.

Delivery time

If for reasons beyond our control we can not fulfill this service commitment, IGA will inform the customer of the new term within a maximum of 48 hours after the reception of the order.
The rest of references will be served in the shortest period of time possible and may make partial deliveries.
Orders received that have a delivery time less than 72 hours, will follow the procedure described above.
The breach of the previous commitment or a fractioned issue will not be grounds for compensation.

Transport

Our products are considered expired in our warehouse and the date of issue is shown on the delivery note.
The goods travels at the addressee expense and risk, even if they are sent prepaid.
In the case of lack of packages or visible damages due to transportation, the addressee must write it down on the delivery note, claim the carrier and inform the commercial department of IGA within 48 hours. Otherwise, it will be considered the conformity of the goods in quantity and condition . Claims for delays in transportation will not be accepted.
After 8 days from receipt of the goods, no claims will be accepted about the contents of the boxes.

Refunds

The products invoiced by IGA are considered a firm sale and has no right to refund.
In case of an error in the execution of the order, the following shall be taken into account:
-The change must be authorized by the commercial direction of IGA. The warehouse of IGA will not accept any product without authorization.
-The accepted material will have a 20% reduction of its value for verification expenses.
-The goods returned to IGA travel at the client's risk.

Installations

IGA is exempted from any responsibility in the installations that do not comply with the advice or with the specifications and features of each range of product.

Warranty

IGA range of products has a 2 year warranty. The acknowledgment of the responsibility in warranty corresponds only to IGA and / or to its insurance company. Any other defect caused by aging, corrosion, improper installation or improper application, will not be subject to possible claims.

Jurisdiction

IGA will try to resolve any divergence with his clients through friendly channels. Having said that, in case of litigation, the parties agree and are obliged to submit to the arbitration appointed by the Court of the Arbitration Association of Bilbao, which will be responsible for the administration of the aforementioned arbitration in accordance with its Statute and Regulations. Likewise, they are obliged from now on to comply with the arbitral report that is issued.

IGA reserves the modification of the articles without previous notice.

IGA INSULATORS

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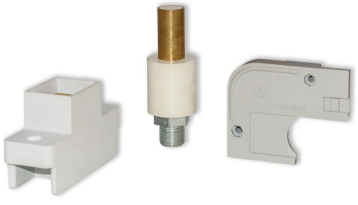


1. REGULATION

The Ministry of industry ELECTROTECHNICAL LOW VOLTAGE REGULATION 2413 / 1973 specifies the characteristics for the insulating materials, as well as the assembly, attending to:

- Security of personnel.
- Operational reliability.
- Normalization of elements and assembly system.

The correct IGA insulators installation, ensures compliance with the requirements required by official regulations. We insist on the importance of a correct assembly, as its non-compliance, voids the warranty on the insulators.

Final important warning: The ELECTROTECHNICAL LOW VOLTAGE REGULATION 2413 / 1973 specifies requirements to be fulfilled by the installation before the start up.

This regulation covers all working options: aerial, underground, outdoors, indoor lines, grounding, etc. which should be consulted with specialists and official organizations.

2. TECHNICAL INFORMATION

2.1. ELECTRICAL INSULATORS

Manufactured in glass-fiber reinforced with polyester compound, color brown (RAL 8012).

IGA insulators are made of a dielectric compound, used for the manufacturing of electric components with standard working requirements and according to the special characteristics.

DENSITY ISO 1183-1	FLEXURAL STRENGTH ISO 14125	GLOW WIRE STRENGTH IEC 60695-2-10	WATER AB-SORPTION ISO 62	MOULDING TEMPERATURE	FLAMMABILITY UL 94	DIELECTRIC STRENGTH IEC 60243-1	SURFACE RESISTANCE IEC 60093
1,90 g/cm^3	≥ 70 MPa	960ºC 1,5mm	< 0,3%	148 ºC	V-0 / 3	18 KV / mm	10^{12} Ω

The reference number of the insulator gives the shape and the external dimensions.

Metallic ironfittings are manufactured in zinc plated steel (stainless steel, brass, etc. upon request).

- Female (H).
- Long male (M).
- Short male (m).
- Threaded rod: Used for tensile insulators.
- Rings: Used for tensile insulators and cable supporting.
- Clamps for cable retainers: Used for the steel wire retainer of the self supported electric cables.

Optional specifications are added after the reference number of the insulator.
Examples:
- Ref. 213-MH: insulator with long male ironfitting on top and female ironfitting on bottom.
- Ref. 213-AA(17): insulator with rings at both ends.
- Ref. 219-A22-R04: insulator with rings at both ends and one clamps for cable retainer Ref. R-04.

2.2. SPARK CHUTE BOXES

Manufactured in short glass-fiber reinforced with inorganic compound, color light grey (RAL 7035) and according to customer's drawing.

It's considered as an excellent electric isolator. This insulator is appropriate for working in humidity conditions.

IGA insulators have a very good mechanical strength and arc resistance working at high temperatures. **These characteristics guarantees it as a good anti arc compound.**

Used for general applications but preferily used for manufacturing of switchs, automatic controls and circuit breakers.

SPECIFIC GRAVITY ISO 1183	TENSILE STRENGTH ISO 527	COMPRESSION STRENGTH ISO 604	WATER AB-SORPTION ISO 62	HEAT STRENGTH IEC 60216/T1	FLAMMABILITY UL 94	DIELECTRIC STRENGTH IEC 60243-1	ARC RESISTANCE ASTM D 495
1,9 - 2,1 g/cm^3	50 - 60MPa	150 - 200MPa	≤ 45mg	170ºC (<50h : 210ºC)	V-0 / 1,5	25 - 35 KV / mm	4

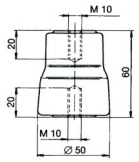
2.3. CUSTOMIZED MANUFACTURING

Some moulded ítems (insulators, arc chute boxes, etc.) are habitually manufactured according to our customer's own drawings and specifications.

Above mentioned moulding compounds could be modified in order to acomplish the customer's special specifications.

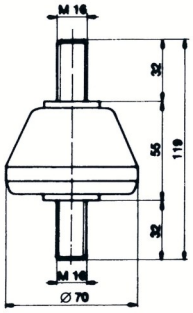
3. SUSPENSION AND SUPPORT INSULATORS

Ref. 212



CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102001	212	5.000 Kg	3.000 Kg	3 Kv	0,215 Kg

Ref. 213



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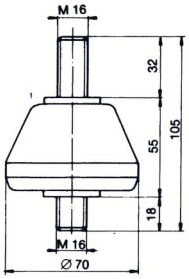

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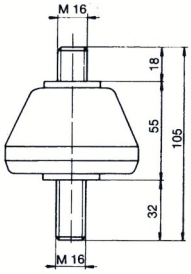

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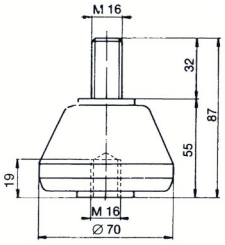

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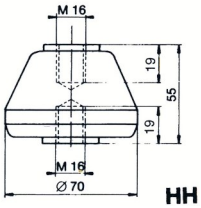

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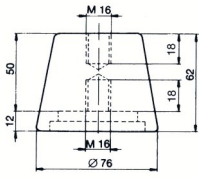
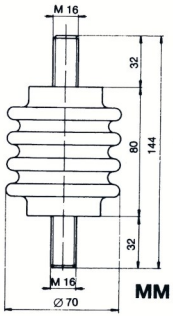
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102003	213MM	1.500 Kg	8.000 Kg	5 Kv	0,449 Kg
102004	213Mm	1.500 Kg	8.000 Kg	5 Kv	0,401 Kg
102005	213mM	1.500 Kg	8.000 Kg	5 Kv	0,401 Kg
102002	213MH	1.500 Kg	8.000 Kg	5 Kv	0,353 Kg
102088	213HH	1.500 Kg	8.000 Kg	5 Kv	0,305 Kg

Ref. 214



CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102007	214	2.100 Kg	12.000 Kg	10 Kv	0,416 Kg

Ref. 219



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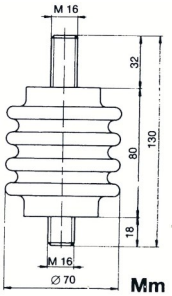

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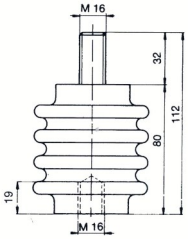

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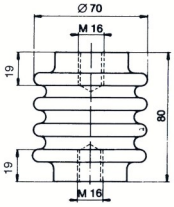

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CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102012	219MM	2.000 Kg	12.000 Kg	5 Kv	0,621 Kg
102013	219Mm	2.000 Kg	12.000 Kg	5 Kv	0,596 Kg
102011	219MH	2.000 Kg	12.000 Kg	5 Kv	0,548 Kg
102010	219HH	2.000 Kg	12.000 Kg	5 Kv	0,482 Kg

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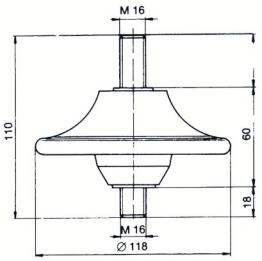
Ref. 221



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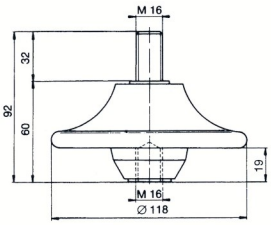

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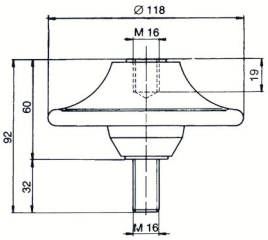

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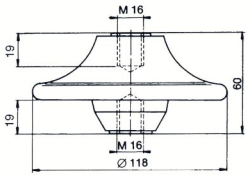

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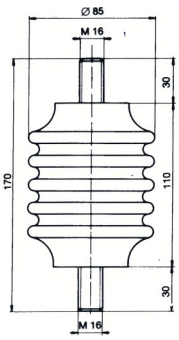
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102019	221Mm	1.800 Kg	10.000 Kg	5 Kv	0,578 Kg
102018	221MH	1.800 Kg	10.000 Kg	5 Kv	0,663 Kg
102017	221HM	1.800 Kg	10.000 Kg	5 Kv	0,556 Kg
102016	221HH	1.800 Kg	10.000 Kg	5 Kv	0,528 Kg

Ref. 223



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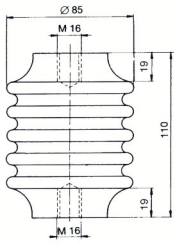

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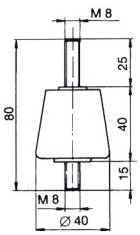
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102022	223MM	2.100 Kg	14.000 Kg	5 Kv	1,049 Kg
102021	223MH	2.100 Kg	14.000 Kg	5 Kv	0,981 Kg
102062	223HH	2.100 Kg	14.000 Kg	5 Kv	0,937 Kg

Ref. 229



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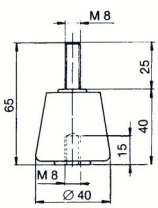

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CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102025	229Mm	450 Kg	1.500 Kg	3 Kv	0,112 Kg
102024	229MH	450 Kg	1.500 Kg	3 Kv	0,106 Kg

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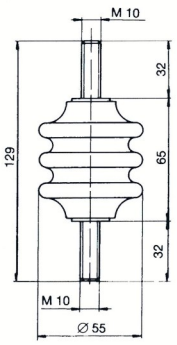
Ref. 231



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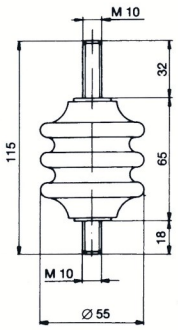

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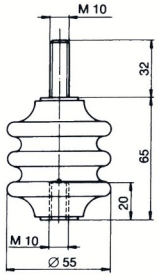

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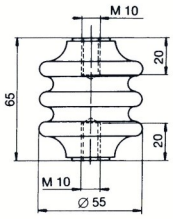

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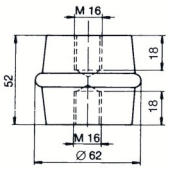
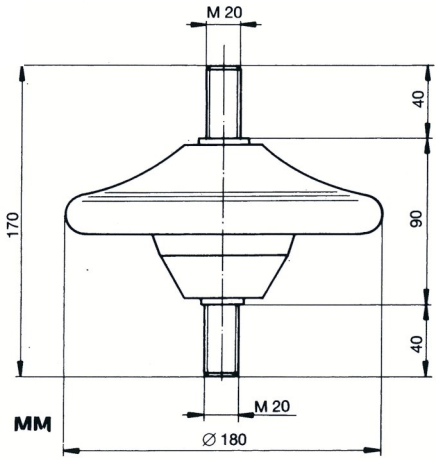
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102092	231MM	1.500 Kg	3.000 Kg	5 Kv	0,265 Kg
102028	231Mm	1.500 Kg	3.000 Kg	5 Kv	0,257 Kg
102027	231MH	1.500 Kg	3.000 Kg	5 Kv	0,261 Kg
102026	231HH	1.500 Kg	3.000 Kg	5 Kv	0,266 Kg

Ref. 235



CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102095	235MM	1.600 Kg	9.500 Kg	5 Kv	0,351 Kg
102030	235MH	1.600 Kg	9.500 Kg	5 Kv	0,333 Kg
102103	235mH(16-0)	1.600 Kg	9.500 Kg	5 Kv	0,315 Kg
102029	235HH	1.600 Kg	9.500 Kg	5 Kv	0,275 Kg

Ref. 238



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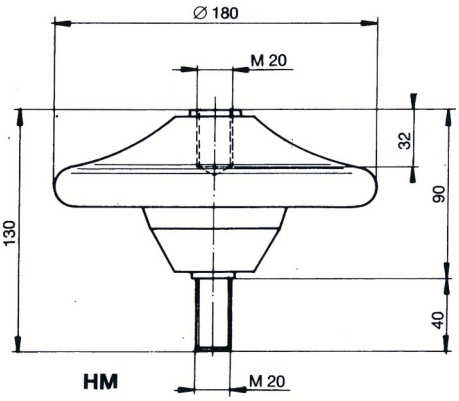

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CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102079	238MM	2.500 Kg	14.000 Kg	5 Kv	1,806 Kg
102036	238Mm	2.500 Kg	14.000 Kg	5 Kv	1,748 Kg
102037	238mM	2.500 Kg	14.000 Kg	5 Kv	1,751 Kg
102035	238MH	2.500 Kg	14.000 Kg	5 Kv	1,780 Kg
102033	238HH	2.500 Kg	14.000 Kg	5 Kv	1,710 Kg
102034	238HM	2.500 Kg	14.000 Kg	5 Kv	1,780 Kg

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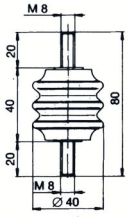
Ref. 240



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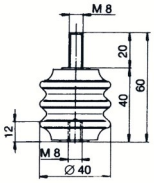

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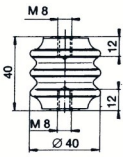

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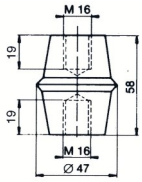
Also available in M10 thread.

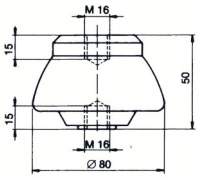
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102040	240MM	600 Kg	1.500 Kg	3 Kv	0,099 Kg
102039	240MH	600 Kg	1.500 Kg	3 Kv	0,101 Kg
102038	240HH	600 Kg	1.500 Kg	3 Kv	0,100 Kg

Ref. 242



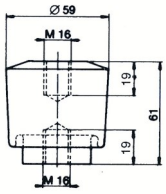
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102042	242	1.800 Kg	8.000 Kg	5 Kv	0,208 Kg

Ref. 245



CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102071	245mM(20-66)	1.500 Kg	5.000 Kg	5 Kv	0,500 Kg
102043	245	1.500 Kg	5.000 Kg	5 Kv	0,374 Kg

Ref. 246



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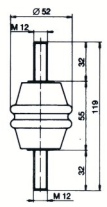
102044	246	2.500 Kg	8.000 Kg	5 Kv	0,333 Kg

Ref. 250



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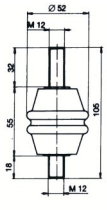
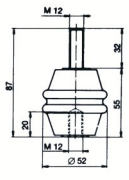
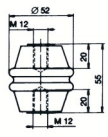


Mm



MH

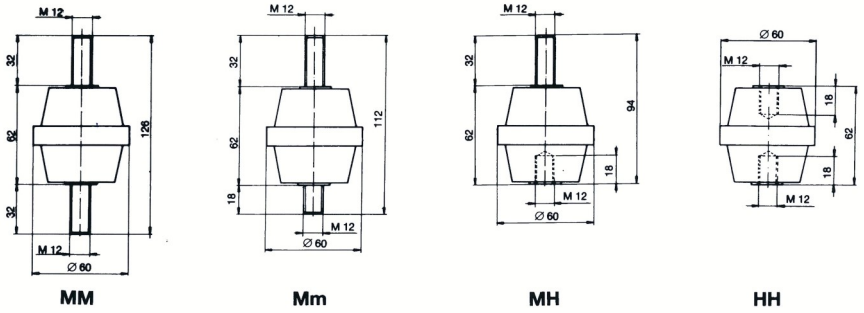


HH

CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102048	250MM	1.800 Kg	3.000 Kg	5 Kv	0,248 Kg
102047	250Mm	1.800 Kg	3.000 Kg	5 Kv	0,232 Kg
102046	250MH	1.800 Kg	3.000 Kg	5 Kv	0,240 Kg
102045	250HH	1.800 Kg	3.000 Kg	5 Kv	0,234 Kg

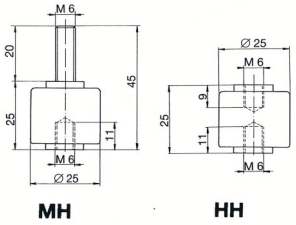
IGA INSULATORS

Ref. 253



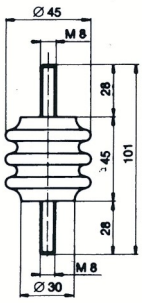
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102052	253MM	2.500 Kg	9.500 Kg	5 Kv	0,308 Kg
102051	253Mm	2.500 Kg	9.500 Kg	5 Kv	0,302 Kg
102050	253MH	2.500 Kg	9.500 Kg	5 Kv	0,296 Kg
102049	253HH	2.500 Kg	9.500 Kg	5 Kv	0,294 Kg

Ref. 254



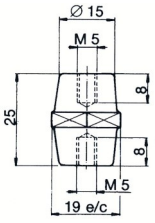
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102053	254MH	300 Kg	1.500 Kg	3 Kv	0,037 Kg
102054	254HH	300 Kg	1.500 Kg	3 Kv	0,033 Kg

Ref. 266



CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102081	266MM	900 Kg	1.600 Kg	3 Kv	0,137 Kg

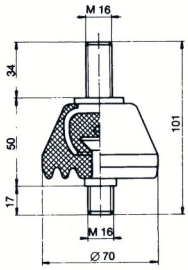
Ref. 306



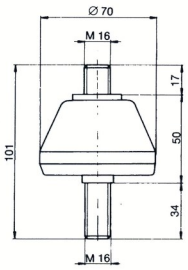
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102098	306	250 Kg	800 Kg	3 Kv	0,016 Kg

4. REINFORCED INSULATORS

Ref. 101



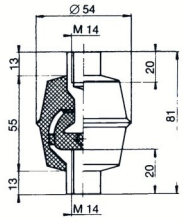
Mm



mM

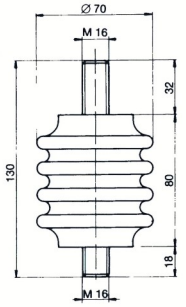
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
101001	101Mm	4.000 Kg	8.000 Kg	3 Kv	0,396 Kg
101002	101mM	4.000 Kg	8.000 Kg	3 Kv	0,405 Kg

Ref. 217

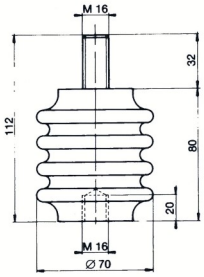


CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
101003	217	4.700 Kg	8.000 Kg	3 Kv	0,311 Kg

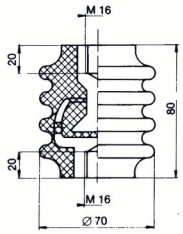
Ref. 226



Mm



MH



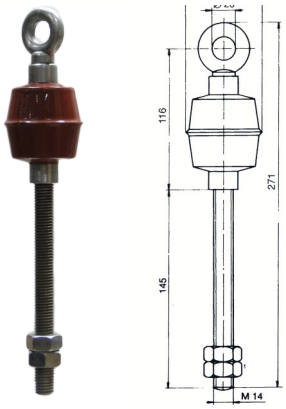
HH

CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
101010	226MM	5.000 Kg	15.000 Kg	3 Kv	0,715 Kg
101007	226Mm	5.000 Kg	15.000 Kg	3 Kv	0,695 Kg
101006	226MH	5.000 Kg	15.000 Kg	3 Kv	0,675 Kg
101005	226HH	5.000 Kg	15.000 Kg	3 Kv	0,655 Kg

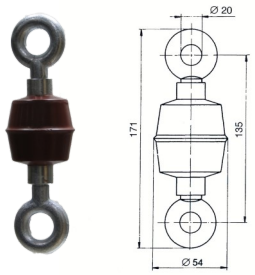
5. TENSIONING INSULATORS

Ref. 217

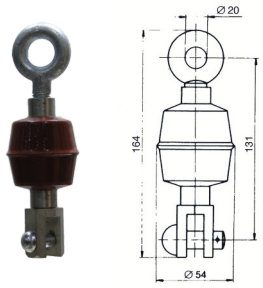
Ref. 217 AT



Ref. 217 AA



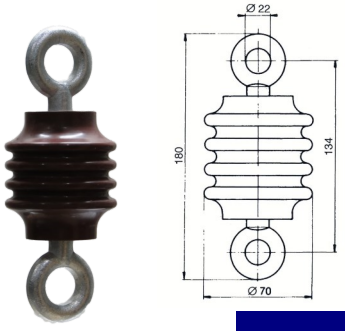
Ref. 217 AHo



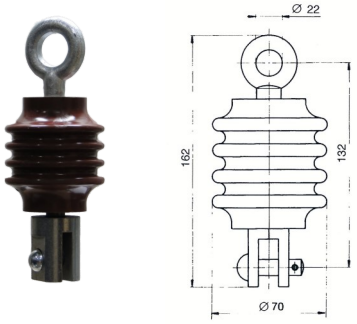
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
105001	217AT	4.700 Kg	-	3 Kv	0,532 Kg
103001	217AA	4.700 Kg	-	3 Kv	0,612 Kg
103002	217AHo	4.700 Kg	-	3 Kv	0,637 Kg

Ref. 219

Ref.219 AA



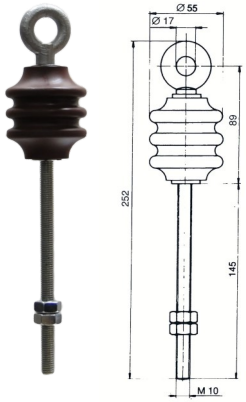
Ref.219 AHo



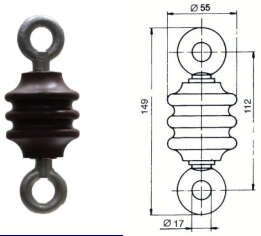
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
103012	219AA	2.000 Kg	-	5 Kv	0,560 Kg
103034	219AHo	2.000 Kg	-	5 Kv	0,600 Kg

Ref. 231

Ref. 231 AT



Ref. 231 AA



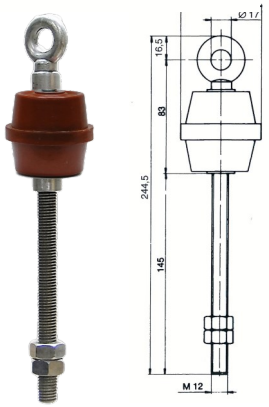
Ref. 231 AHo

CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
105002	231AT	1.500 Kg	-	5 Kv	0,450 Kg
103003	231AA	1.500 Kg	-	5 Kv	0,425 Kg
103004	231AHo	1.500 Kg	-	5 Kv	0,450 Kg

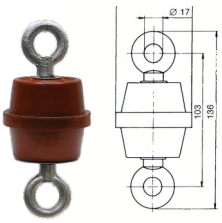
IGA INSULATORS

Ref. 253

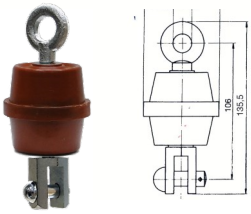
Ref. 253 AT



Ref. 253 AA

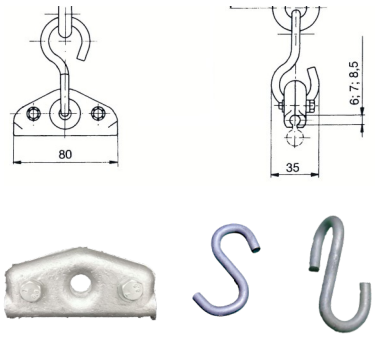


Ref. 253 AHo



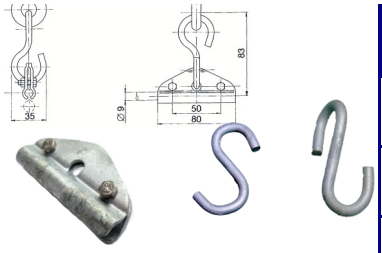
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
105003	253AT	2.500 Kg	-	5 Kv	0,410 Kg
103005	253AA	2.500 Kg	-	5 Kv	0,385 Kg
103006	253AHo	2.500 Kg	-	5 Kv	0,425 Kg

Ref. Clamp for self-supporting cable R03



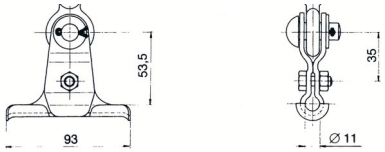
CODE	REFERENCE	CABLE RETAINER DIAMETER	MATERIAL	SCREWS	WEIGHT
103046	R03(ø6mm)	6mm	Aluminium	Zinc Plated Steel	0,084 Kg
103048	R03(ø7mm)	7mm	Aluminium	Zinc Plated Steel	0,070 Kg
103054	R03(ø8,5mm)	8,5mm	Aluminium	Zinc Plated Steel	0,072 Kg
103044	Flat S	-	Hot Galvanized Steel	-	0,026 Kg
103052	S tacked 90º	-	Hot Galvanized Steel	-	0,030 Kg

Ref. Clamp for self-supporting cable R03-1



CODE	REFERENCE	CABLE RETAINER DIAMETER	MATERIAL	SCREWS	WEIGHT
103053	R03-1	9mm	Hot Galvanized Steel	Stainless Steel	0,111 Kg
103044	Flat S	-	Hot Galvanized Steel	-	0,026 Kg
103052	S tacked 90º	-	Hot Galvanized Steel	-	0,030 Kg

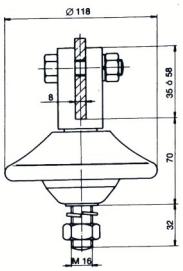
Ref. Clamp for self-supporting cable R04



CODE	REFERENCE	CABLE RETAINER DIAMETER	MATERIAL	SCREWS	WEIGHT
103013	R04	11mm	Hot Galvanized Steel	Stainless Steel	0,161 Kg
605002	Round Head Rivet	-	Zinc Plated Steel	-	0,022 Kg
923245	Flat Ring	-	Stainless Steel	-	0,002 Kg
930055	Pin Fins	-	Stainless Steel	-	0,001 Kg
103044	Flat S	-	Hot Galvanized Steel	-	0,026 Kg
103052	S tacked 90º	-	Hot Galvanized Steel	-	0,030 Kg

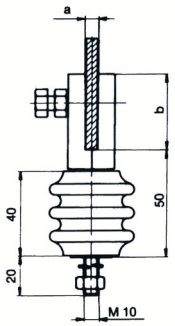
6. BAR HOLDER INSULATORS

Ref. 221-P



CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
104008	221-P 8x35	1.800 Kg	10.000 Kg	5 Kv	0,895 Kg
104009	221-P 8x58	1.800 Kg	10.000 Kg	5 Kv	0,898 Kg
104048	221-P 10x58	1.800 Kg	10.000 Kg	5 Kv	0,924 Kg

Ref. 240-P

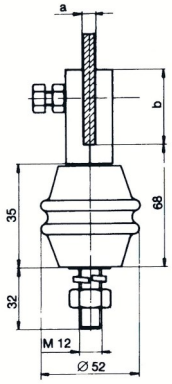


a	b
6	20
6	40
11	40

CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
104012	240-P 6x20	600 Kg	1.500 Kg	3 Kv	0,162 Kg
104013	240-P 6x40	600 Kg	1.500 Kg	3 Kv	0,165 kg
104014	240-P 11x40	600 Kg	1.500 Kg	3 Kv	0,187 kg

Slop depth equal to
2/3 of the plate.

Ref. 250-P



a	b
6	20
6	40
11	40

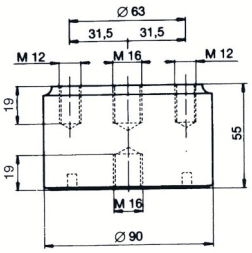
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
104051	250-P 6x20	1.800 Kg	3.000 Kg	5 Kv	0,407 Kg
104045	250-P 6x40	1.800 Kg	3.000 Kg	5 Kv	0,410 Kg
104052	250-P 11x40	1.800 Kg	3.000 Kg	5 Kv	0,432 Kg

Slop depth equal to
2/3 of the plate.

IGA INSULATORS

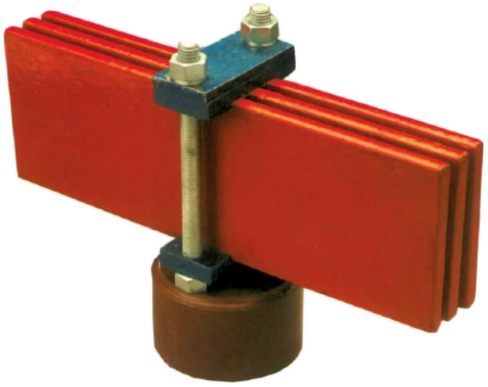
Ref. 255-P

Ref. 255

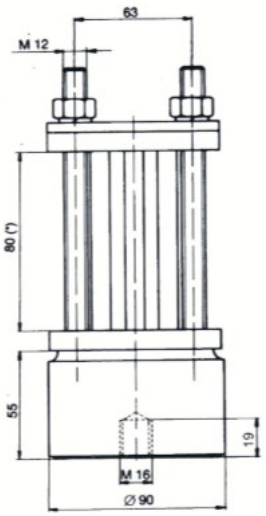


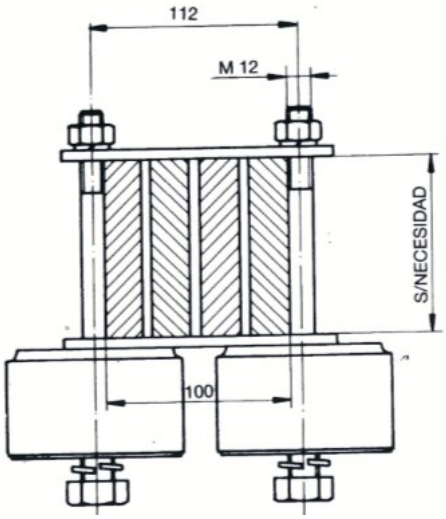
CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102055	255	2.000 Kg	8.500 Kg	5 Kv	0,620 Kg
104015	255-P	2.000 Kg	8.500 Kg	5 Kv	0,940 Kg
104016	255-2P	2.000 Kg	8.500 Kg	5 Kv	1,840 Kg

Ref. 255-P



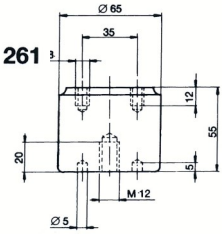
Ref. 255-2P





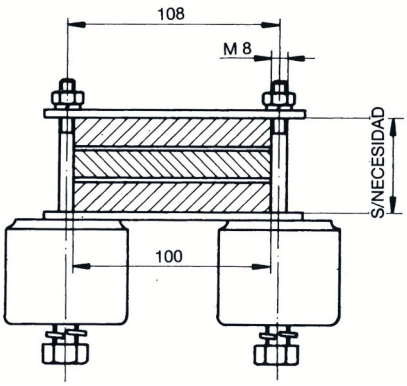
Ref. 261-P

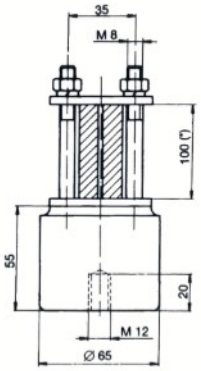
Ref. 261



CODE	REFERENCE	TENSILE STRENGTH	COMPRESSIVE STRENGTH	DIELECTRIC TEST	WEIGHT
102059	261	1.100 Kg	6.400 Kg	5 Kv	0,325 Kg
104017	261-P	1.100 Kg	6.400 Kg	5 Kv	0,430 Kg
104018	261-2P	1.100 Kg	6.400 Kg	5 Kv	1,020 Kg

Ref. 261-2P





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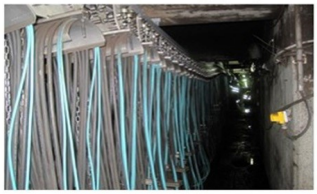
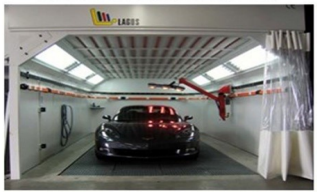


TUNNELLING

ENVIRONMENTAL TECHNOLOGY

WIND POWER

AUTOMOTIVE



OFFSHORE

THEATRE STAGE TECH.

AGRICULTURE

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