Low Voltage Insulators

The "stand off" insulator is used as insulating support for active conductors to guarantee excellent electric insulation capability; it can be used as a support for electric devices, giving high mechanical resistance values, as well as a spacing and/or stiffening element of a system made of conductor bars (copper and/or aluminum.)

The various heights, widths and dimensions of the threaded inserts make it possible to select the most suitable reference for the specific work.

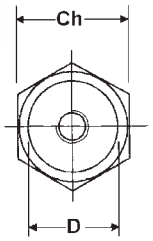
The TEKNOMEGA range offers two product typologies, both with high electric insulation and mechanical resistance characteristics, yet obtained using different production processes and materials.

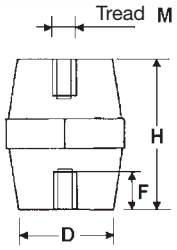
Ω ISO: BLACK INSULATORS and SPACER COLUMNS
made of polyamide reinforced with fiberglass, molded by injection.

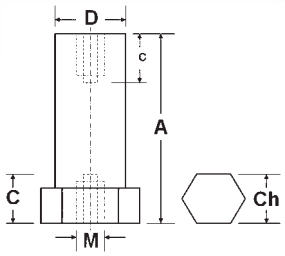
Ω COMPRHEX: RED INSULATORS
made of polyester reinforced with fiberglass, dough molded.

BOTH ranges of **TEKNOMEGA INSULATOR** have passed severe **TEST** to check their mechanical and electric resistance.
The values obtained during the tests are indicated in the relevant technical tables.
The tests were carried out in compliance with standards EN 60664-1 and EN 60439-1

Ω ISO - Low Voltage Insulators







TECHNICAL FEATURES

Polyamide 6/6 reinforced with 30% fiberglass
Self-extinguishing UL 94V0
Working temperature: -40°C +130°C
Continuous working temperature: +110°C

Galvanized steel insert
Softening temperature: 215°C
Glow wire test: 960°C
Black color

R.T. Tensile strength
R.C. Resistance to compression
R.F. Bending/shearing resistance
1daN ≃ 1 Kg

Tests performed in compliance with standards EN 60664-1 and EN 60439-1

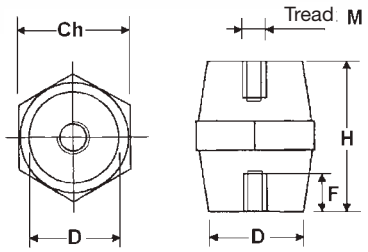
Code	Reference		Weight Kg.	Ch	type	H	M	F	Ø D	Voltage in Volt		R.T.	R.C.	R.F.
				Dimensions in mm						DC	AC	daN	daN	daN
ISO1000	ISO 15M4	50	0.005	14	Ott	15	M4	4,5	12	1500	1000	250	1150	270
ISO1005	ISO 20M4	50	0.011	17	Esa	20	M4	5	15	1500	1000	250	1150	270
ISO1010	ISO 20M6	50	0.011	17	Esa	20	M6	5	15	1500	1000	390	1800	290
ISO1015	ISO 25M5	50	0.013	19	Esa	25	M5	7	15	1500	1000	370	1400	350
ISO1020	ISO 25M6	50	0.013	19	Esa	25	M6	7	15	1500	1000	390	1800	290
ISO1025	ISO 30M6	50	0.020	30	Esa	30	M6	9	26	1500	1000	390	1800	290
ISO1030	ISO 30M8	50	0.020	30	Esa	30	M8	9	26	1500	1000	840	>2700	900
ISO1035	ISO 35M6	50	0.030	31	Esa	35	M6	10	28	1500	1000	390	>2700	290
ISO1040	ISO 35M8	50	0.030	31	Esa	35	M8	10	28	1500	1000	840	>2700	900
ISO1045	ISO 35M10	50	0.030	31	Esa	35	M10	10	28	1500	1000	1300	>2700	1250
ISO1050	ISO 40M6	25	0.061	32	Esa	40	M6	12	28	1500	1000	390	>2700	290
ISO1055	ISO 40M8	25	0.061	32	Esa	40	M8	12	28	1500	1000	840	>2700	900
ISO1060	ISO 40M10	25	0.061	32	Esa	40	M10	12	28	1500	1000	1300	>2700	1250
ISO1065	ISO 45M6	25	0.071	40	Ott	45	M6	17	34	1500	1000	390	>2700	290
ISO1070	ISO 45M8	25	0.071	40	Ott	45	M8	17	34	1500	1000	8400	>2700	900
ISO1075	ISO 45M10	25	0.071	40	Ott	45	M10	17	41	1500	1000	1300	>2700	1250
ISO1080	ISO 50M6	25	0.075	35	Esa	50	M6	17	29	1500	1000	390	>2700	290
ISO1085	ISO 50M8	25	0.075	35	Esa	50	M8	17	29	1500	1000	840	>2700	900
ISO1090	ISO 50M10	25	0.075	35	Esa	50	M10	17	29	1500	1000	1300	>2700	1250
ISO1095	ISO 60M8	10	0.170	55	Ott	60	M8	17	44	1500	1000	840	>2700	900
ISO1100	ISO 60M10	10	0.170	55	Ott	60	M10	17	44	1500	1000	1300	>2700	1250
ISO1105	ISO 75M12	10	0.185	50	Esa	75	M12	28	36	1500	1000	1800	>2700	2300
ISO1110	ISO 75M16	10	0.185	50	Esa	75	M16	28	36	1500	1000	800	>2700	810
ISO1115	ISO 100M12	10	0.200	65	Esa	100	M12	28	52	1500	1000	1800	>2700	2300

Ω ISO - Spacing columns for low voltage

Code	Reference		Weight Kg	A	M	C	Ø D	Ch
				Dimensions in mm				
ISO1120	CLN 16M4-21	50	0.013	16	M4	5	20	21
ISO1125	CLN 16M5-21	50	0.013	16	M5	5	20	21
ISO1130	CLN 16M6-21	50	0.014	16	M6	4	20	21
ISO1135	CLN 20M5-21	50	0.025	20	M5	5	20	21
ISO1140	CLN 20M6-21	50	0.025	20	M6	5	20	21
ISO1145	CLN 25M4-21	50	0.030	25	M4	5	20	21
ISO1150	CLN 25M5-21	50	0.030	25	M5	5	20	21
ISO1155	CLN 25M6-21	50	0.030	25	M6	5	20	21
ISO1160	CLN 25M8-21	50	0.028	25	M8	7	20	21
ISO1165	CLN 30M5-21	50	0.032	30	M5	10	20	21
ISO1170	CLN 30M6-21	50	0.032	30	M6	10	20	21
ISO1175	CLN 30M8-21	50	0.031	30	M8	10	20	21
ISO1180	CLN 35M5-21	50	0.035	35	M5	10	20	21
ISO1185	CLN 35M6-21	50	0.035	35	M6	10	20	21
ISO1190	CLN 35M8-21	50	0.035	35	M8	10	20	21
ISO1195	CLN 40M5-21	25	0.040	40	M5	10	20	21
ISO1200	CLN 40M6-21	25	0.040	40	M6	10	20	21
ISO1205	CLN 40M8-21	25	0.038	40	M8	10	20	21

Code	Reference		Weight Kg	A	M	C	Ø D	Ch
				Dimensions in mm				
ISO1210	CLN 45M5-21	25	0.045	40	M5	10	20	21
ISO1215	CLN 45M6-21	25	0.045	45	M6	10	20	21
ISO1220	CLN 45M8-21	25	0.045	45	M8	10	20	21
ISO1225	CLN 50M5-21	25	0.048	50	M5	10	20	21
ISO1230	CLN 50M6-21	25	0.048	50	M6	10	20	21
ISO1235	CLN 50M8-21	25	0.048	50	M8	10	20	21
ISO1240	CLN 30M6-31	50	0.042	30	M6	10	30	31
ISO1245	CLN 30M8-31	50	0.042	30	M8	10	30	31
ISO1250	CLN 35M6-31	50	0.048	35	M6	10	30	31
ISO1255	CLN 35M8-31	50	0.048	35	M8	10	30	31
ISO1260	CLN 45M6-31	25	0.060	45	M6	10	30	31
ISO1265	CLN 45M8-31	25	0.060	45	M8	13	30	31
ISO1270	CLN 55M6-31	25	0.078	55	M6	15	30	31
ISO1275	CLN 55M8-31	25	0.078	55	M8	15	30	31
ISO1280	CLN 65M6-31	10	0.095	65	M6	15	30	31
ISO1285	CLN 65M8-31	10	0.095	65	M8	15	30	31
ISO1290	CLN 70M6-31	10	0.105	70	M6	15	30	31
ISO1295	CLN 70M8-31	10	0.105	70	M8	15	30	31

Ω COMPRHEX - Low Voltage Insulators



TECHNICAL FEATURES

Heat hardening resin
Polyester reinforced with 20% fiberglass
Self-extinguishing UL94V0.

Continuous working temperature: 90 °C
Brass insert
Red color

R.T. Tensile strength
R.C. Resistance to compression
R.F. Bending/shearing resistance
1daN ≃1 Kg

Tests performed in compliance with standards EN 60664-1 and EN 60439-1

Code	Reference		Weight Kg	Ch	tipo	H	M	F	Ø D	Voltage in Volt		R.T.	R.C.	R.F.
				Dimensions in mm						DC	AC	daN	daN	daN
CPH1000	CPH 15M4	100	0.006	16	Esa	15	M4	6	14	1500	1000	160	810	150
CPH1010	CPH 20M6	100	0.016	19	Esa	20	M6	8	15	1500	1000	250	1200	290
CPH1015	CPH 25M5	100	0.034	26	Esa	25	M5	10	15	1500	1000	250	1200	290
CPH1020	CPH 25M6	100	0.035	26	Esa	25	M6	10	15	1500	1000	250	1200	290
CPH1025	CPH 30M6	100	0.046	33	Esa	30	M6	10	25	1500	1000	250	1200	290
CPH1030	CPH 30M8	100	0.052	33	Esa	30	M8	12.5	25	1500	1000	490	2400	590
CPH1035	CPH 35M6	50	0.058	35	Esa	35	M6	12.5	26	1500	1000	250	2000	290
CPH1040	CPH 35M8	50	0.061	34	Esa	35	M8	12.5	26	1500	1000	490	2400	590
CPH1045	CPH 35M10	50	0.066	35	Esa	35	M10	13	26	1500	1000	750	> 2700	615
CPH1050	CPH 40M6	50	0.093	40	Esa	40	M6	12.5	30	1500	1000	490	2400	590
CPH1055	CPH 40M8	50	0.095	40	Esa	40	M8	12.5	30	1500	1000	490	2400	590
CPH1070	CPH 45M8	50	0.100	40	Esa	45	M8	15	30	1500	1000	490	2400	590
CPH1080	CPH 50M6	50	0.104	45	Esa	50	M6	15	35	1500	1000	490	2400	590
CPH1085	CPH 50M8	50	0.125	45	Esa	50	M8	15	35	1500	1000	490	> 2700	590
CPH1090	CPH 50M10	50	0.140	45	Esa	50	M10	15	35	1500	1000	750	> 2700	615
CPH1095	CPH 60M8	25	0.200	50	Esa	60	M8	15	38	1500	1000	750	> 2700	615
CPH1100	CPH 60M10	25	0.210	50	Esa	60	M10	18	38	1500	1000	750	> 2700	615
CPH1105	CPH 75M12	25	0.245	55	Esa	75	M12	23	38	1500	1000	1300	> 2700	770
CPH1115	CPH 100M12	25	0.546	65	Esa	100	M12	23	52	1500	1000	1500	> 2700	770

Mounting Bolts for insulators

TECHNICAL FEATURES

Made of class 8.8 galvanized steel

Complete with nut, flat washer and blocking washers

Code	Reference		L x M
ISO3000	ISO-PM5x20	25	20 x M5
ISO3005	ISO-PM6x30	25	30 X M6
ISO3010	ISO-PM8x30	25	30 x M8
ISO3015	ISO-PM8x35	25	35 x M8
ISO3020	ISO-PM10x40	25	40 x M10
ISO3025	ISO-PM12x50	25	50 x M12