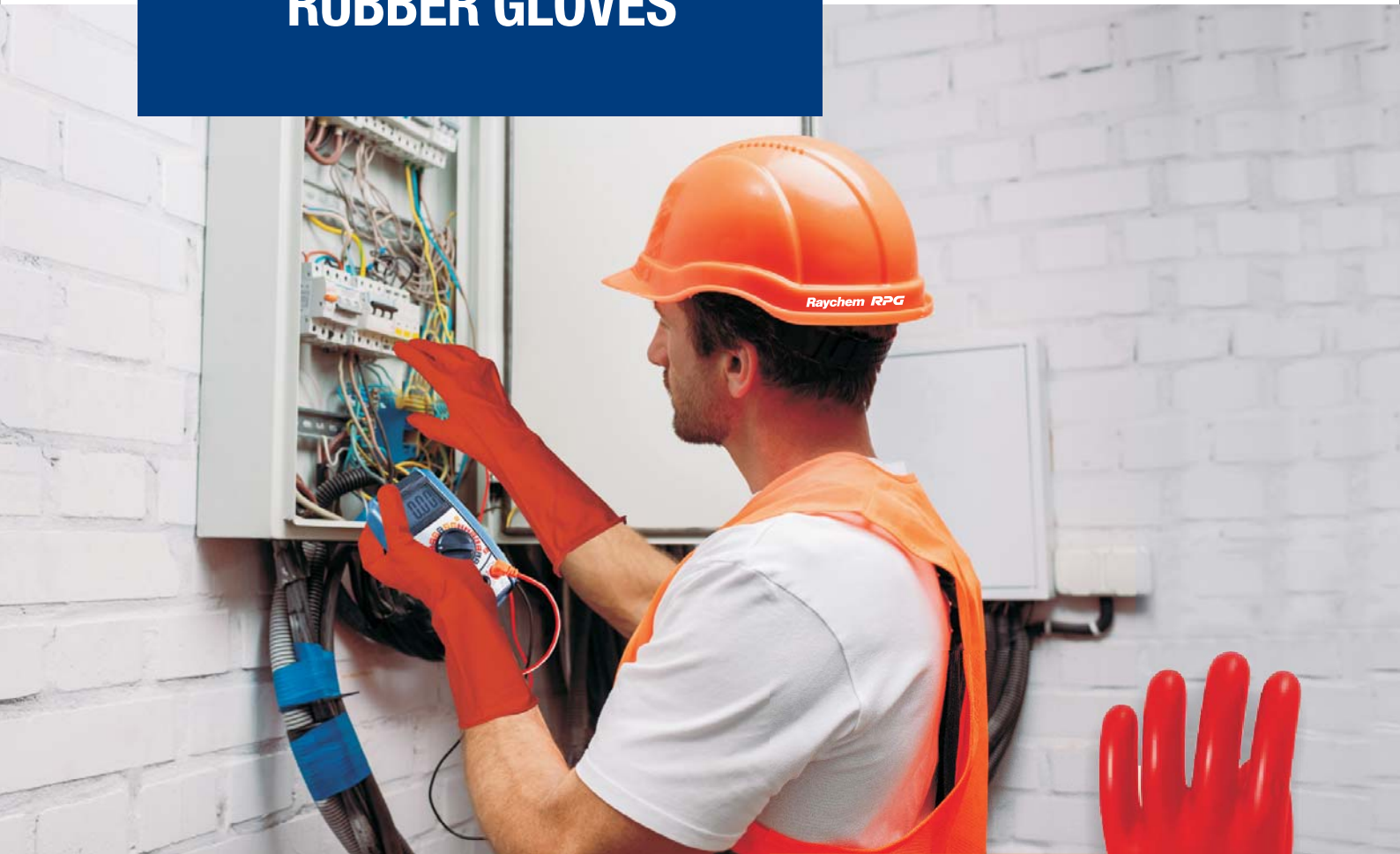




Kamfet™
by
Raychem RPG

Electrical Safety Protection

ELECTRICAL INSULATING RUBBER GLOVES



The Best of Safety And Comfort for Electrical Operations

Raychem RPG offers a full range of products for every application involving electric currents from 500 to 36000 volts with **EN & IEC** standards approvals.

Protecting Lives

The Kamfet range of Low Voltage & High Voltage electrical insulating gloves includes a comprehensive range of latex insulating gloves, composite gloves, and arc-rated insulating gloves.



The comprehensive range of Insulating Gloves for Electrical Work

Electrical Insulating Gloves form the first line of defense to protect against contact with any energized components or electrical lines. This is the most critical component among the Personal Protective Equipment (PPE's) to safeguard against electrical hazards.

Electrical Insulating Gloves are designed and manufactured according to international standards to protect the skilled electrical worker when used in accordance with the industry accepted safe methods and instructions of use.

Raychem RPG manufactures a comprehensive range of electrical insulating gloves using a state-of-the-art manufacturing facility equipped with a fully automated robotic Latex dipping process. These high-performance gloves are designed to provide protection from accidental contact with charged systems while working across industries.



Environmentally Friendly



Dipping process

Our Gloves are manufactured with environment friendly **water-based technology** and we have zero tolerance to use of solvents in the process.

Our sourcing strategy also revolves around sustainability and hence we exclusively use natural materials in our manufacturing.



Quality Assurance

Classified in Hazard Category III of Personal Protective Equipment, Electrical Insulating Gloves are manufactured in compliance with International Standards.

The inhouse laboratory is equipped to carry out testing according to **EN 60903:2003** and **IEC 60903:2014** standards.

Every pair of gloves is individually tested by Di-Electric test and visual inspection to give the **Highest Guarantee of Conformity**.









REACH Compliant (SVHC free)

REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) compliance **deals with the regulations that were created to improve the environment and protect human health**. REACH addresses the risks associated with chemicals and promotes alternative methods for the hazard assessment of substances.



Select The Right Gloves


We offer three types of electrical gloves with different levels of protection:

Natural Rubber Gloves	Arc Flash Gloves	Composite Gloves
	 	  
Offers electrical insulation only. To be used in conjunction with leather over gloves.	Offers 2-in-1 protection electrical insulation and arc flash protection. To be used in conjunction with leather over gloves.	Offers 3-in-1 protection electrical insulation, mechanical and arc flash protection.

Special Properties

Special properties may be useful for providing additional protection during electrical work:

A (acid), H (oil), Z (ozone), R (A + H + Z), C (Extremely temperature); most of our gloves belong to the RC category.

Category	Resistance to
A	Acid
H	Oil
Z	Ozone
R	Acid, Oil, Ozone
C	Extremely low temperature
Mechanical protection	

Note 1: The R category combines the characteristics of categories A, H and Z
Note 2: Any combination of categories may be used

Electrical Gloves Classification

According to applicable standards - EN 60903:2003 and IEC 60903:2014

Class	Max Use Voltage (AC)	Proof test Voltage (AC)	Withstand test voltage (AC)	Max Use Voltage (DC)
00	500 V	2500 V	5000 V	750 V
0	1000 V	5000 V	10000 V	1500 V
1	7500 V	10000 V	20000 V	11250 V
2	17000 V	20000 V	30000 V	25500 V
3	26500 V	30000 V	40000 V	39750 V
4	36000 V	40000 V	50000 V	54500 V

Marking

IEC 60417-5216 live working pictogram

Applicable Standards

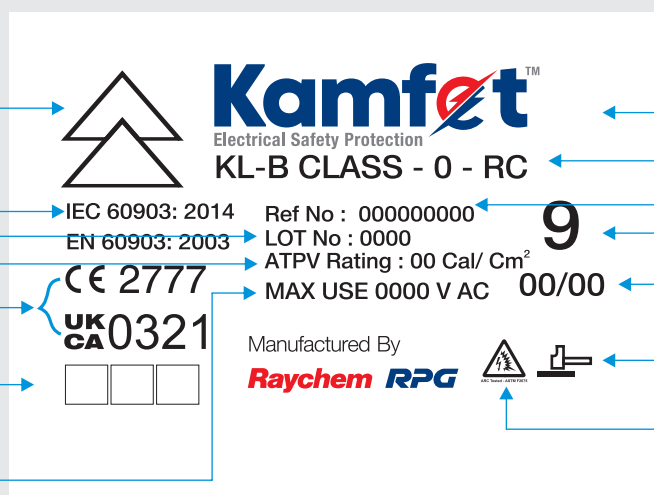
Batch Number

Arc flash testing result

Third party notified body no.

Room for writing new last/next inspection date or date of issuing into service

Maximum usage voltage



Trademark logo

Class & Category

Item number
Size

Month/Year of manufacture

Symbol for mechanical protection (composite gloves only)

Arc flash tested

Electrical Insulating gloves offer personal protection against electrical shocks when working on or near live electrical equipment and they must comply with the **IEC 60903:2014 / EN 60903:2003** standards. As a result they undergo various voltage, aging and mechanical tests.

A full range of Electrical Insulating gloves is available in the classes (Class 00 to Class 4 for working voltages up to 36000V), many sizes, different lengths and Red Colour.

Key Features :

- ✦ Its ergonomic design provides comfort to the wearer for a **longer** duration and Its thickness ensures dexterity
- ✦ Manufactured from natural rubber latex for ultimate durability and flexibility
- ✦ Ultimate fit, comfort and performance for electrical workers' safety and protection
- ✦ Generous flared cuff allows room for clothing and improves **ventilation**
- ✦ The design also features a smooth finish for easy donning **and doffing**
- ✦ The gloves are individually tested and delivered in a sealed **UV** protecting plastic bag
- ✦ Available in two versions: Straight Cuff and Rolled Cuff



Certification :



CE 2777

UK0321

IEC



EN 60903:2003
IEC 60903:2014

Classification :

Class	Category	Thickness (mm)	Max Use Voltage (AC)	Proof Test Voltage (AC)	Max Use Voltage (DC)
00	AZC	<1.1	500 V	2500 V	750 V
0	AZC*	<1.6	1000 V	5000 V	1500 V
1	RC	<2.1	7500 V	10000 V	11250 V
2	RC	<2.9	17000 V	20000 V	25500 V
3	RC	<3.5	26500 V	30000 V	39750 V
4	RC	<4.2	36000 V	40000 V	54500 V

* RC version available on request

Straight Cuff :

Product Series	Class	Category	Length in mm	Size					
				7	8	9	10	11	12
KL-A	Class 00	AZC	280		DEA0010003 1128000-08	DEA0010004 1128000-09	DEA0010005 1128000-10	DEA0010006 1128000-11	DEA0010007 1128000-12
			360		DEA0010013 1136000-08	DEA0010014 1136000-09	DEA0010015 1136000-10	DEA0010016 1136000-11	DEA0010017 1136000-12
KL-B	Class 0	AZC*	280		DEA0010185 1128010-08	DEA0010186 1128010-09	DEA0010187 1128010-10	DEA0010188 1128010-11	DEA0010189 1128010-12
			360		DEA0010028 1136010-08	DEA0010029 1136010-09	DEA0010030 1136010-10	DEA0010031 1136010-11	DEA0010032 1136010-12
			410		DEA0010033 1141010-08	DEA0010034 1141010-09	DEA0010035 1141010-10	DEA0010036 1141010-11	DEA0010037 1141010-12
KL-C	Class 1	RC	360		DEA0010038 1136011-08	DEA0010039 1136011-09	DEA0010040 1136011-10	DEA0010041 1136011-11	DEA0010042 1136011-12
			410		DEA0010048 1141011-08	DEA0010049 1141011-09	DEA0010050 1141011-10	DEA0010051 1141011-11	DEA0010052 1141011-12
KL-D	Class 2	RC	360		DEA0010058 1136012-08	DEA0010059 1136012-09	DEA0010060 1136012-10	DEA0010061 1136012-11	DEA0010062 1136012-12
			410	DEA0010503 1141012-07	DEA0010068 1141012-08	DEA0010069 1141012-09	DEA0010070 1141012-10	DEA0010071 1141012-11	DEA0020571 1141012-12
KL-E	Class 3	RC	360		DEA0010077 1136013-08	DEA0010078 1136013-09	DEA0010079 1136013-10	DEA0010080 1136013-11	DEA0010081 1136013-12
			410		DEA0010087 1141013-08	DEA0010088 1141013-09	DEA0010089 1141013-10	DEA0010090 1141013-11	DEA0010091 1141013-12
KL-F	Class 4	RC	410	DEA0010504 1141014-07	DEA0010190 1141014-08	DEA0010191 1141014-09	DEA0010192 1141014-10	DEA0010193 1141014-11	DEA0010194 1141014-12

Rolled Cuff :

Product Series	Class	Category	Length in mm	Size					
				7	8	9	10	11	12
KL-A	Class 00	AZC	280		DEA0010018 2128000-08	DEA0010019 2128000-09	DEA0010020 2128000-10	DEA0010021 2128000-11	DEA0010022 2128000-12
			360		DEA0010023 2136000-08	DEA0010024 2136000-09	DEA0010025 2136000-10	DEA0010026 2136000-11	DEA0010027 2136000-12
KL-B	Class 0	AZC*	280		DEA0010195 2128010-08	DEA0010196 2128010-09	DEA0010197 2128010-10	DEA0010198 2128010-11	DEA0010199 2128010-12
			360		DEA0010008 2136010-08	DEA0010009 2136010-09	DEA0010010 2136010-10	DEA0010011 2136010-11	DEA0010012 2136010-12
			410		DEA0010117 2141010-08	DEA0010118 2141010-09	DEA0010119 2141010-10	DEA0010120 2141010-11	DEA0010121 2141010-12
KL-C	Class 1	RC	360		DEA0010043 2136011-08	DEA0010044 2136011-09	DEA0010045 2136011-10	DEA0010046 2136011-11	DEA0010047 2136011-12
			410		DEA0010053 2141011-08	DEA0010054 2141011-09	DEA0010055 2141011-10	DEA0010056 2141011-11	DEA0010057 2141011-12
KL-D	Class 2	RC	360		DEA0010063 2136012-08	DEA0010064 2136012-09	DEA0010065 2136012-10	DEA0010066 2136012-11	DEA0010067 2136012-12
			410	DEA0010503 1141012-07	DEA0010072 2141012-08	DEA0010073 2141012-09	DEA0010074 2141012-10	DEA0010075 2141012-11	DEA0010076 2141012-12
KL-E	Class 3	RC	360		DEA0010082 2136013-08	DEA0010083 2136013-09	DEA0010084 2136013-10	DEA0010085 2136013-11	DEA0010086 2136013-12
			410		DEA0010092 2141013-08	DEA0010093 2141013-09	DEA0010094 2141013-10	DEA0010095 2141013-11	DEA0010096 2141013-12
KL-F	Class 4	RC	410	DEA0010504 1141014-07	DEA0010102 2141014-08	DEA0010103 2141014-09	DEA0010104 2141014-10	DEA0010105 2141014-11	DEA0010106 2141014-12

Example: DEA0010003 = Ordering code 1128000-08 = Manufacturer code (written on the gloves)

Note : Leather protectors are recommended to be worn over electrical gloves to ensure mechanical protection (local regulations, work practices, and risk analysis apply).

* RC Version available on request.

KL- ARC Flash Series

Electrical Insulating Rubber Gloves with Arc Flash Protection

Electrical Insulating gloves offer personal protection against electrical shocks when working on or near live electrical equipment, and they must comply with the **IEC 60903:2014 / EN 60903:2003** standards. As a result, they undergo various voltage, aging, and mechanical tests.

A full range of Electrical Insulating gloves is available in the classes (Class 00 to Class 4 for working voltages up to 36000V), many sizes, different lengths, and Red Colour.

Key Features :

- ✦ **Insulating 2-in-1 Gloves: Di-Electric and ARC Flash Protection**
- ✦ Its ergonomic design provides comfort to the wearer for a **longer** duration and Its thickness ensures dexterity
- ✦ Manufactured from natural rubber latex for ultimate durability and flexibility
- ✦ Ultimate fit, comfort, and performance for electrical workers' safety and protection
- ✦ Generous flared cuff allows room for clothing and improves **ventilation**
- ✦ The design also features a smooth finish for easy donning **and doffing**
- ✦ **ARC Flash: ASTM F2675 tested**
- ✦ The gloves are individually tested and delivered in a sealed **UV** protecting plastic bag
- ✦ Available in two versions: Straight Cuff and Rolled Cuff



Certification :



CE 2777

UK0321

IEC



EN 60903:2003
IEC 60903:2014



Classification :

Class	Category	Thickness (mm)	Max Use Voltage (AC)	Proof Test Voltage (AC)	Max Use Voltage (DC)	ASTM F2675 ATPV Rating
00	AZC	<1.1	500 V	2500 V	750 V	4.2 Cal/cm2
0	AZC*	<1.6	1000 V	5000 V	1500 V	7.6 Cal/cm2
1	RC	<2.1	7500 V	10000 V	11250 V	7.2 Cal/cm2
2	RC	<2.9	17000 V	20000 V	25500 V	16 Cal/cm2
3	RC	<3.5	26500 V	30000 V	39750 V	25 Cal/cm2
4	RC	<4.2	36000 V	40000 V	54500 V	39 Cal/cm2

* RC version available on request

Straight Cuff :

Product Series	Class	Category	Length in mm	Size				
				8	9	10	11	12
KL-A	Class 00	AZC	280	DEA0010436 1228000-08	DEA0010353 1228000-09	DEA0010416 1228000-10	DEA0010371 1228000-11	DEA0010395 1228000-12
			360	DEA0010365 1236000-08	DEA0010438 1236000-09	DEA0010495 1236000-10	DEA0010440 1236000-11	DEA0010373 1236000-12
KL-B	Class 0	AZC*	280	DEA0010362 1228010-08	DEA0010408 1228010-09	DEA0010369 1228010-10	DEA0010404 1228010-11	DEA0010314 1228010-12
			360	DEA0010394 1236010-08	DEA0010432 1236010-09	DEA0010350 1236010-10	DEA0010407 1236010-11	DEA0010402 1236010-12
			410	DEA0010451 1241010-08	DEA0010465 1241010-09	DEA0010467 1241010-10	DEA0010396 1241010-11	DEA0010461 1241010-12
KL-C	Class 1	RC	360	DEA0010391 1236011-08	DEA0010462 1236011-09	DEA0010459 1236011-10	DEA0010401 1236011-11	DEA0010410 1236011-12
			410	DEA0010389 1241011-08	DEA0010458 1241011-09	DEA0010493 1241011-10	DEA0010381 1241011-11	DEA0010443 1241011-12
KL-D	Class 2	RC	360	DEA0010453 1236012-08	DEA0010448 1236012-09	DEA0010392 1236012-10	DEA0010429 1236012-11	DEA0010357 1236012-12
			410	DEA0010475 1241012-08	DEA0010412 1241012-09	DEA0010406 1241012-10	DEA0010409 1241012-11	DEA0010477 1241012-12
KL-E	Class 3	RC	360	DEA0010473 1236013-08	DEA0010494 1236013-09	DEA0010437 1236013-10	DEA0010366 1236013-11	DEA0010476 1236013-12
			410	DEA0010492 1241013-08	DEA0010435 1241013-09	DEA0010377 1241013-10	DEA0010390 1241013-11	DEA0010414 1241013-12
KL-F	Class 4	RC	410	DEA0010397 1241014-08	DEA0010352 1241014-09	DEA0010351 1241014-10	DEA0010470 1241014-11	DEA0010372 1241014-12

Rolled Cuff :

Product Series	Class	Category	Length in mm	Size				
				8	9	10	11	12
KL-A	Class 00	AZC	280	DEA0010455 2228000-08	DEA0010356 2228000-09	DEA0010387 2228000-10	DEA0010430 2228000-11	DEA0010380 2228000-12
			360	DEA0010460 2236000-08	DEA0010375 2236000-09	DEA0010441 2236000-10	DEA0010355 2236000-11	DEA0010449 2236000-12
KL-B	Class 0	AZC*	280	DEA0010360 2228010-08	DEA0010374 2228010-09	DEA0010370 2228010-10	DEA0010491 2228010-11	DEA0010424 2228010-12
			360	DEA0010450 2236010-08	DEA0010446 2236010-09	DEA0010433 2236010-10	DEA0010378 2236010-11	DEA0010447 2236010-12
			410	DEA0010498 2241010-08	DEA0010499 2241010-09	DEA0010500 2241010-10	DEA0010501 2241010-11	DEA0010502 2241010-12
KL-C	Class 1	RC	360	DEA0010471 2236011-08	DEA0010456 2236011-09	DEA0010398 2236011-10	DEA0010457 2236011-11	DEA0010349 2236011-12
			410	DEA0010383 2241011-08	DEA0010415 2241011-09	DEA0010398 2241011-10	DEA0010463 2241011-11	DEA0010439 2241011-12
KL-D	Class 2	RC	360	DEA0010400 2236012-08	DEA0010363 2236012-09	DEA0010468 2236012-10	DEA0010399 2236012-11	DEA0010359 2236012-12
			410	DEA0010386 2241012-08	DEA0010385 2241012-09	DEA0010388 2241012-10	DEA0010367 2241012-11	DEA0010423 2241012-12
KL-E	Class 3	RC	360	DEA0010445 2236013-08	DEA0010426 2236013-09	DEA0010361 2236013-10	DEA0010478 2236013-11	DEA0010466 2236013-12
			410	DEA0010384 2241013-08	DEA0010425 2241013-09	DEA0010382 2241013-10	DEA0010368 2241013-11	DEA0010354 2241013-12
KL-F	Class 4	RC	410	DEA0010417 2241014-08	DEA0010442 2241014-09	DEA0010376 2241014-10	DEA0010421 2241014-11	DEA0010393 2241014-12

Example: DEA0010436 = Ordering code 1228000-08= Manufacturer code (written on the gloves)

Note : Leather protectors are recommended to be worn over electrical gloves to ensure mechanical protection (local regulations, work practices, and risk analysis apply)

* RC Version available on request.

Electrical Insulating gloves offer personal protection against electrical shocks when working on or near live electrical equipment and they must comply with the **IEC 60903:2014 / EN 60903:2003** standards. As a result, they undergo various voltage, aging, and mechanical tests.

A full range of Electrical Insulating gloves is available in the classes (Class 00 to Class 0 for working voltages up to 1000V), many sizes, different lengths, and **Bi-Colour**.

Key Features :

- ✦ **Insulating 3-in-1 Gloves: Di-Electric, Mechanical and ARC Flash Protection**
- ✦ Its ergonomic design provides comfort to the wearer for a longer duration and Its thickness ensures dexterity
- ✦ Manufactured from natural rubber latex for ultimate durability and flexibility
- ✦ Ultimate fit, comfort and performance for electrical workers' Safety and protection
- ✦ Generous flared cuff allows room for clothing and improves ventilation
- ✦ The design also features a smooth finish for easy donning and doffing
- ✦ **ARC Flash: ASTM F2675 tested**
- ✦ The gloves are individually tested and delivered in a sealed UV protecting plastic bag
- ✦ **Bi-Colour: It makes the visual inspection easier**



Certification :



CE 2777

UK0321

IEC



EN 60903:2003
IEC 60903:2014



Classification :

Glove Class	Category	Thickness (mm)	Max Use Voltage (AC)	Proof Test Voltage (AC)	Max Use Voltage (DC)	ASTM F2675 ARLim Rating
00	RC	<2.4	500 V	2500 V	750 V	14 Cal/cm2
0	RC	<2.9	1000 V	5000 V	1500 V	25 Cal/cm2

Product Series	Class	Category	Length in mm	Size				
				8	9	10	11	12
KC-A	Class 00	RC	280	DEA0010220 1328000-08	DEA0010222 1328000-09	DEA0010224 1328000-10	DEA0010226 1328000-11	DEA0010228 1328000-12
			360	DEA0010221 1336000-08	DEA0010223 1336000-09	DEA0010225 1336000-10	DEA0010227 1336000-11	DEA0010229 1336000-12
KC-B	Class 0	RC	280	DEA0010245 1328010-08	DEA0010247 1328010-09	DEA0010249 1328010-10	DEA0010251 1328010-11	DEA0010253 1328010-12
			360	DEA0010203 1336010-08	DEA0010204 1336010-09	DEA0010205 1336010-10	DEA0010206 1336010-11	DEA0010207 1336010-12
			410	DEA0010246 1341010-08	DEA0010248 1341010-09	DEA0010250 1341010-10	DEA0010252 1341010-11	DEA0010254 1341010-12

Example: DEA0010220 = Ordering code 1328000-08 = Manufacturer code (written on the gloves)

It is essential that leather protector gloves be worn over Electrical Insulating Gloves to protect against cuts, abrasions and punctures caused by contact with electrical components. Kamfet range of leather over gloves is available in all sizes from 8 to 12. Leather protectors are perfectly matched to the shape of our Electrical Insulating Gloves.

Key Features :

- ✦ Grain leather gloves with a split leather cuff and adjustable straps designed to perfectly fit over the Kamfet range of electrical gloves to ensure a good level of dexterity
- ✦ Water repellent and silicone-treated to provide increased flame resistance



Certification :



Classification :

Suitable Electrical Gloves	Length in mm	EN 388:2016+A1:2018	Size				
			8	9	10	11	12
Class 00 & Class 0	315 mm (+/- 10 mm)	3123X	DEA0010130 9931000-08	DEA0010131 9931000-09	DEA0010132 9931000-10	DEA0010133 9931000-11	DEA0010134 9931000-12
Class 1 & Class 2	315 mm (+/- 10 mm)	3122X	DEA0010145 9931012-08	DEA0010146 9931012-09	DEA0010147 9931012-10	DEA0010148 9931012-11	DEA0010149 9931012-12
Class 3 & Class 4	315 mm (+/- 10 mm)	2121X	DEA0010165 9931034-08	DEA0010166 9931034-09	DEA0010167 9931034-10	DEA0010168 9931034-11	DEA0010169 9931034-12

Example: DEA0010130 = Ordering code 9931000-08 = Manufacturer code (written on the gloves)

Packing: Each One Pair - Individually Packed.

Sizing

It's very important to select the right size in order to get the highest dexterity. Many sizes are available (7 to 12 depending on the class). Standard lengths are 28 cm, 36 cm and 41 cm.

Hand Size Guide

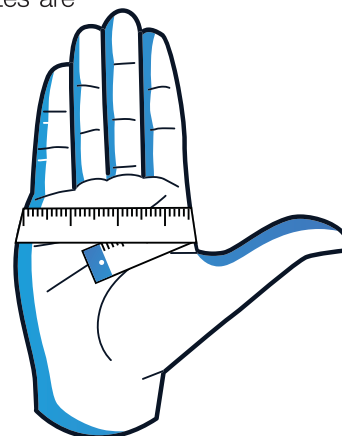
Measure Your Glove Size

Go round your hand with measuring tape, leaving out the thumb (see drawing).

Close the hand without excessive clenching and take the measurement.

Copy the measurements to the conversion table below.

Recommended size	7	8	9	10	11	12
Hand measurement (cm)	19	21	24	26	28	31



Periodic Testing

The range of electrical insulating gloves has no expiry date and can be used as long as they pass periodic inspections.

We recommend testing gloves in service every 6 months and gloves in stock every 12 months; the recommended method of testing is visual inspection and dielectric testing. For more information please refer IEC 60903 : 2014 standard.

Revalidation Services

Our relationship with customers does not end but begins with the supply of our Personal Protection Equipment (PPE). At **Raychem RPG**, we understand that safety is a continuous journey and not a destination. Therefore, to ensure that PPE offers the intended safety to users, we provide revalidation services in line with the recommendations of **IEC 60903:2014** for Gloves. This service checks the health of the PPE and gives peace of mind to the user.

Raychem RPG's in-house electrical glove testing lab is one of the most sophisticated and automated in the industry. Helping you meet **IEC 60903:2014** requirements, we offer accurate and convenient testing services for new or in-service electrical rubber gloves from Class 00 to Class 4, 11" to 16" lengths and all cuff styles.

* Currently only available for the customers in india



Market Segments

The electrical insulating glove range is ideal for a large range of industry-specific market segments:



Electricity
Utility



Industrial
Applications



Telecom



Electric
Vehicles



Renewable
Energy



Oil & Gas



Metal &
Mining



Pharma &
Chemical

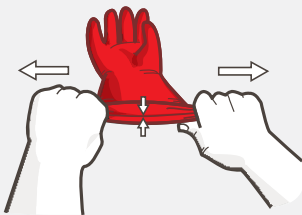
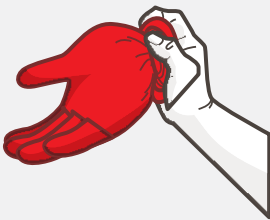

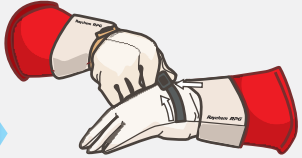


Data
Centre

Full visual inspection of each glove prior to donning is required. Use a manual air pressure device for testing the glove by inflating it and thus detecting any defects, checks completed by a trained person. If a glove is defective, both gloves in the pair must not be used.

Inspection of Electrical Insulating Gloves

Field inspection requires visual inspection of the electrical insulating gloves inside and outside.

<p>1</p> <p>Grasp glove.</p> 	<p>2</p> <p>Stretch to seal closed.</p> 	<p>3</p> <p>Press and roll tightly.</p> 
<p>4</p> <p>Twirl glove, rotating on rolled ends.</p> 	<p>5</p> <p>Entrap air by holding in one hand.</p> 	<p>6</p> <p>Hold close to ear, squeeze to add pressure, listen and feel for pinhole leaks. When inflated, carefully inspect the glove for any nicks, cuts, cracks or holes.</p> 
<p>7</p> <p>Check for the most recent test date. Register the issue date of the glove.</p> 	<p>8</p> <p>Turn glove inside out and repeat the process.</p> 	<p>9</p> <p>In leather protectors, look for any oil, grease, cut, abrasion or other foreign substances that could disqualify the glove for energized service use.</p> 
<p>10</p> <p>When donning and doffing the gloves, it is imperative that you are not wearing and have removed all jewelry and watches.</p> 	<p>11</p> <p>Do not stretch the protector.</p> 	<p>12</p> <p>Use caution and remove the protectors carefully to guard against damaging the integrity of the gloves.</p> 

Remember:

Selecting the proper class of gloves for the voltage being worked on, verifying the gloves, having recent lab testing and ensuring the gloves are free of defects by rigorous daily field inspection are critical steps to preventing electrical accidents and saving lives.



IEC 61111:2009 ELECTRICAL INSULATING RUBBER MATTING



Manufactured to the Highest Standards



Slip
Resistant



Puncture
Resistant



Highly
Durable



Good
Ageing



Flame
Retardant



Acid
Resistant



Oil
Resistant

Electrical Insulating Rubber Matting




Electrical Insulating Rubber Matting, also known as dielectric or electrical safety matting, is used to protect people against electrical shock from electrical equipment used in switch rooms in front of switchboards, transformers and other high or low voltage workplaces.

Electrical Insulating Rubber Mats has unique and innovative properties. The insulating material offers the best possible technical and electrical insulation characteristics. The improvement of the elastomer formulation allows reaching the drastic properties of the "C" category of the IEC 61111: 2009 standard; mats do not degrade even when folded at very low temperatures (-40°C).

Rubber is known for its exceptional electrical insulating properties. With the ability to reduce or stop electric currents, used to protect workers from electrical shocks, it is ideal for plant rooms, control rooms, switchboards and where individuals handle live equipment.

We offer the most extensive and compliant range of Electrical Safety Matting/Switchboard Matting according to IEC61111:2009 (Class 0 to 4).

Current standard IEC 61111: 2009 includes requirements for flame resistance, low smoke, oil resistance and puncture resistance and are often selected for these properties.

RoHS2 Compliant	The material does not contain Lead, Mercury, Cadmium, Hexavalent Chromium, Biphenyl Polybrominate (PBB), Biphenyl Polybrominate Ether (PBDE).	
REACH Compliant	The material does not contain any of the 163 substances considered to be Highly Hazardous Chemical Substances (HHCS).	
Zero Halogen	The material does not contain Fluorine, Chromium, Bromine and Iodine. The absence of halogen is a positive indicator for the health and safety of the operator in case of fire.	

Compliant with the standard IEC 61111 and the properties category "C" for bendability at very low temperatures (- 40° C).

Mats compliant with RoHS2 and REACH Directives and not containing halogen therefore not dangerous for the operator in case of fire.

Classification :

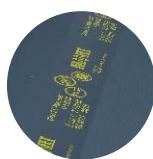
The normative marking is repeated at least twice per linear meter, thus ensuring good visibility on the ground. Marking color is different according to the classification.



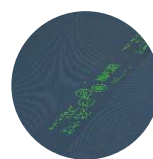
1.0kV : Class '0'



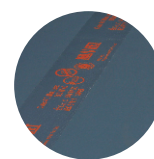
7.5kV : Class '1'



17.0kV : Class '2'



26.5kV : Class '3'



36.0kV : Class '4'

Testing :



Proof Test



A dielectrical resistance test is carried out on **EVERY RUNNING METRE** of matting for a set time, to ensure a standard conformity of resistance throughout the entire area of the product.

These tests should not be confused with the working voltages opposite.

Withstand Test




Every batch manufactured is tested to specific high voltages, to ensure the matting does not break down.

100 % of Cut and Rolled mats are tested after manufacturing.

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In Accordance With Standards

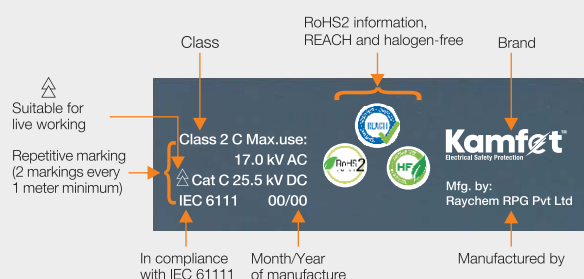
The insulating mats provide operators with individual and collective protection. Made of elastomer, they are used to cover the ground for the electrical protection of operators during work or interventions on electrical installations.


In accordance with IEC 61111: 2009 
(Live working tools – insulating mats category C:
Resistant to very low temperature -40°C).

Class	Max Voltage (AC)	Proof Test Voltage (AC)	Withstand Voltage (AC)	Max Voltage (DC)
0	≤ 1000V	≤ 5000V	≤ 10000V	≤ 1500V
1	≤ 7500V	≤ 10000V	≤ 20000V	≤ 11250V
2	≤ 17000V	≤ 20000V	≤ 30000V	≤ 25500V
3	≤ 26500V	≤ 30000V	≤ 40000V	≤ 39750V
4	≤ 36000V	≤ 40000V	≤ 50000V	≤ 54000V



Marking



IEC 60417-5216 

Label with a double triangle symbol means : SUITABLE FOR
LIVE WORKING according to IEC 60417-5216

Recommendations for Use

Examination Before Use

Each time before use, the matting should be visually inspected. If the matting is thought to be unsafe, it shall not be used and should be returned for testing or to be destroyed. If the insulating mats are dirty, wash them with soap and water. Dry it with respect to operating temperatures.

In use

Operating temperatures: -40°C to 55°C. Avoid contact with chemical products. Place the mat on a clean, smooth floor, devoid of aggressive elements for insulation. Position of the feet : The operators' feet must be in the centre of the insulating mat.

Periodic inspection

Insulating mats should not be used without having been electrically tested within the previous twelve months preceding with the exception of class 0. Only visual inspection is required for class 0.

Storage/Transport

Insulated mats should be properly stored to avoid the risk of damage to the insulating material. Do not bend insulating mats. Do not store or use close to excessive heat. Do not expose to direct sunlight for long period. Storage temperature: 10°C to 21°C.



Class 2



Class 3



Class 4

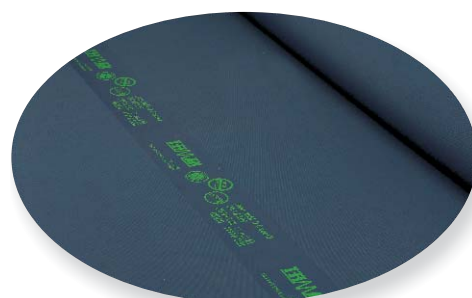
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Key Features :





IEC 61111: 2009 international standard is the single international standard concerning insulating mats.

IEC 61111:2009 

- Fully tested to specification IEC 61111:2009
- High electrical resistance up to 50 kV/50000 volts
- Suitable for both AC and DC applications
- Provides safety for operators against electrical shock
- Anti-slip finish. Conforming to slip resistant test
- Resistant to acid, oil, and low temperatures
- Ozone, UV, and weather resistant
- Permanent marking - Durable and un-erasable
- Fully traceable supply
- Low maintenance
- Highly durable & quality rubber compound
- Highly flexible mats with a self-gripping design
- Finish: Fabric
- Anti-fatigue type, comfortable while standing for long periods
- Operating temperature: - 40 to + 55 °C
- Repetitive marking (2 markings every 1 meter minimum)
- Halogen free, RoHS2 and REACH Compliant



Ordering Code	Manufacture Part Code	Classification IEC61111:2009	 Thickness (mm)	 Width (mm)	 Length (mm)	 Weight (kg)	Maximum Use Voltage	
							AC	DC
DEA0020746	ES0FIG-0.6X1	Class 0	2.2	0.6 Meter	1 Meter	1.8	1000 V	1500 V
DEA0021226	ES0FIG-0.6X2				2 Meter	3.6		
DEA0020747	ES0FIG-0.6X5				5 Meter	9.0		
DEA0020748	ES0FIG-0.6X10				10 Meter	18.0		
DEA0010200	ES0FIG-1X1			1.0 Meter	1 Meter	3.0		
DEA0020454	ES0FIG-1X2				2 Meter	6.0		
DEA0020749	ES0FIG-1X5				5 Meter	15.0		
DEA0020750	ES0FIG-1X10				10 Meter	30.0		
DEA0020751	ES0FIG-1.2X1			1.2 Meter	1 Meter	3.4		
DEA0021227	ES0FIG-1.2X2				2 Meter	6.8		
DEA0020752	ES0FIG-1.2X5				5 Meter	17.0		
DEA0020753	ES0FIG-1.2X10				10 Meter	34.0		

Ordering Code	Manufacture Part Code	Classification IEC61111:2009	 Thickness (mm)	 Width (mm)	 Length (mm)	 Weight (kg)	Maximum Use Voltage	
							AC	DC
DEA0020934	ES1FIG-0.6X1	Class 1	2.3	0.6 Meter	1 Meter	1.9	7500 V	11250 V
DEA0021228	ES1FIG-0.6X2				2 Meter	3.8		
DEA0020935	ES1FIG-0.6X5				5 Meter	9.5		
DEA0020936	ES1FIG-0.6X10				10 Meter	19.0		
DEA0020937	ES1FIG-1X1			1.0 Meter	1 Meter	3.5		
DEA0021219	ES1FIG-1X2				2 Meter	7.0		
DEA0020938	ES1FIG-1X5				5 Meter	17.5		
DEA0020939	ES1FIG-1X10				10 Meter	35.0		
DEA0020940	ES1FIG-1.2X1			1.2 Meter	1 Meter	3.8		
DEA0021240	ES1FIG-1.2X2				2 Meter	7.6		
DEA0020941	ES1FIG-1.2X5				5 Meter	19.0		
DEA0020942	ES1FIG-1.2X10				10 Meter	38.0		

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Ordering Code	Manufacture Part Code	Classification IEC61111:2009	Thickness	Width	Length	Weight	Maximum Use Voltage	
							AC	DC
DEA0020962	ES2FIG-0.6X1	Class 2	2.6	0.6 Meter	1 Meter	2.4	17000 V	27500 V
DEA0021252	ES2FIG-0.6X2				2 Meter	4.8		
DEA0020963	ES2FIG-0.6X5				5 Meter	12.0		
DEA0020964	ES2FIG-0.6X10				10 Meter	24.0		
DEA0020965	ES2FIG-1X1			1.0 Meter	1 Meter	3.9		
DEA0021188	ES2FIG-1X2				2 Meter	7.8		
DEA0020966	ES2FIG-1X5				5 Meter	19.5		
DEA0020967	ES2FIG-1X10				10 Meter	39.0		
DEA0020968	ES2FIG-1.2X1			1.2 Meter	1 Meter	4.7		
DEA0021253	ES2FIG-1.2X2				2 Meter	9.4		
DEA0020741	ES2FIG-1.2X5				5 Meter	23.5		
DEA0020740	ES2FIG-1.2X10				10 Meter	47.0		

Ordering Code	Manufacture Part Code	Classification IEC61111:2009	Thickness	Width	Length	Weight	Maximum Use Voltage	
							AC	DC
DEA0020986	ES3FIG-0.6X1	Class 3	3.2	0.6 Meter	1 Meter	2.9	26500 V	39750 V
DEA0021265	ES3FIG-0.6X2				2 Meter	5.8		
DEA0020987	ES3FIG-0.6X5				5 Meter	14.5		
DEA0020988	ES3FIG-0.6X10				10 Meter	29.0		
DEA0020989	ES3FIG-1X1			1.0 Meter	1 Meter	4.5		
DEA0020295	ES3FIG-1X2				2 Meter	9.0		
DEA0020990	ES3FIG-1X5				5 Meter	22.5		
DEA0020991	ES3FIG-1X10				10 Meter	45.0		
DEA0020992	ES3FIG-1.2X1			1.2 Meter	1 Meter	5.4		
DEA0021266	ES3FIG-1.2X2				2 Meter	10.8		
DEA0020728	ES3FIG-1.2X5				5 Meter	27.0		
DEA0020993	ES3FIG-1.2X10				10 Meter	54.0		

Ordering Code	Manufacture Part Code	Classification IEC61111:2009	Thickness	Width	Length	Weight	Maximum Use Voltage	
							AC	DC
DEA0021014	ES4CIG-0.6X1	Class 4	5.00	0.6 Meter	1 Meter	4.5	36000 V	54000V
DEA0021279	ES4FIG-0.6X2				2 Meter	9.0		
DEA0021015	ES4CIG-0.6X5				5 Meter	22.0		
DEA0021016	ES4CIG-0.6X10				10 Meter	45.0		
DEA0020569	ES4FIG-1X1			1.0 Meter	1 Meter	8.9		
DEA0020774	ES4FIG-1X2				2 Meter	17.8		
DEA0020773	ES4FIG-1X5				5 Meter	44.5		
DEA0020281	ES4FIG-1X10				10 Meter	89.0		
DEA0021012	ES4FIG-1.2X1			1.2 Meter	1 Meter	10.5		
DEA0021266	ES3FIG-1.2X2				2 Meter	21.0		
DEA0020224	ES4FIG-1.2X5				5 Meter	52.5		
DEA0021013	ES4FIG-1.2X10				10 Meter	105.0		

Accessories for Insulating Mat

Bags for Insulating Mat

Specially designed for carrying and protecting insulating mats. Fitted with a shoulder strap.



Reference	Use	←→	kg
		m Dimensions	Weight
ESCB1-700X110	For Insulating Mats of 0.60 x 1.00 Meter Wide	1.1 Meter	0.5 Kg
ESCB2-1100X110	For Insulating Mats of 1.00 x 1.00 Meter Wide	1.1 Meter	0.5 Kg

Benefits

- Transparent pocket for user instruction and storage identification
- Hand carrying straps and shoulders carrying strap