



TILSATEC

Pulse™



Electrical Insulating Gloves

Product Guide



Tilsatec specialize in high performance hand and arm PPE, having delivered mechanical protection for workers in high hazard industries for over two decades.

With tremendous experience and expertise in engineering technical products with high value add performance, Tilsatec is well placed to serve the industries of tomorrow.

Rubber insulating gloves are one of the most critical items of PPE for electrical workers. Category III Personal Protective Equipment and covered by Module D of the PPE Regulation (EU) 2016/425 they are products that protect against potentially deadly hazards or serious and irreversible injuries to health.

Pulse™ Electrical Insulating Gloves from Tilsatec provide protection from electrical hazards for those working in electrical engineering and maintenance, EV manufacturing and servicing, telecoms, power utilities and other electrical applications. Designed to deliver maximum protection, performance, comfort and fit, Pulse™ won't let you down.

Key Features

- Made from 100% natural high grade rubber latex
- Environmentally friendly dipping process free from the use of solvents
- Dual certified to both EN 60903 and ASTM D120
- Ergonomic design and finger shape minimizes hand fatigue
- Smooth chlorinated surface finish and rolled cuff edge aid donning and doffing
- Superior flexibility in cold environments
- Silicon free
- Manufacturing facility certified to ISO 9001: 2015 and ISO 14001:2015



Industries and Applications

The electrical resistant glove range are ideal for a large range of industry-specific market segments:


EV MANUFACTURING
AND MAINTENANCE


ELECTRICAL &
ELECTRONIC
MANUFACTURING


HEAVY MACHINERY
& EQUIPMENT


TELECOMMUNICATIONS


POWER UTILITIES


ELECTRICAL
CONTRACTORS


AUTOMOTIVE



Classes

Providing protection for low voltage and high voltage applications the range includes the following options:

LOW Voltage

- **Pulse™ Class 00** Electrical Insulating Gloves maximum use voltage **500V ac / 750V dc**, 28cm and 36cm in red or yellow
- **Pulse™ Class 0** Electrical Insulating Gloves maximum use voltage **1000V ac / 1500V dc**, 28cm and 36cm in red or yellow

HIGH Voltage

- **Pulse™ Class 1** Electrical Insulating Gloves maximum use voltage **7,500V ac / 11,250V dc**, 36cm in red/black
- **Pulse™ Class 2** Electrical Insulating Gloves maximum use voltage **17,000V ac / 25,500V dc**, 36cm in red/black
- **Pulse™ Class 3** Electrical Insulating Gloves maximum use voltage **26,500V ac / 39,750V dc**, 36cm in red/black
- **Pulse™ Class 4** Electrical Insulating Gloves maximum use voltage **36,000 ac / 54,000V dc**, 41cm in red/black

Performance

A - Acid **C** - Extreme low temperature **H** - Oil resistant **Z** - Ozone **R = A + Z + H**

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

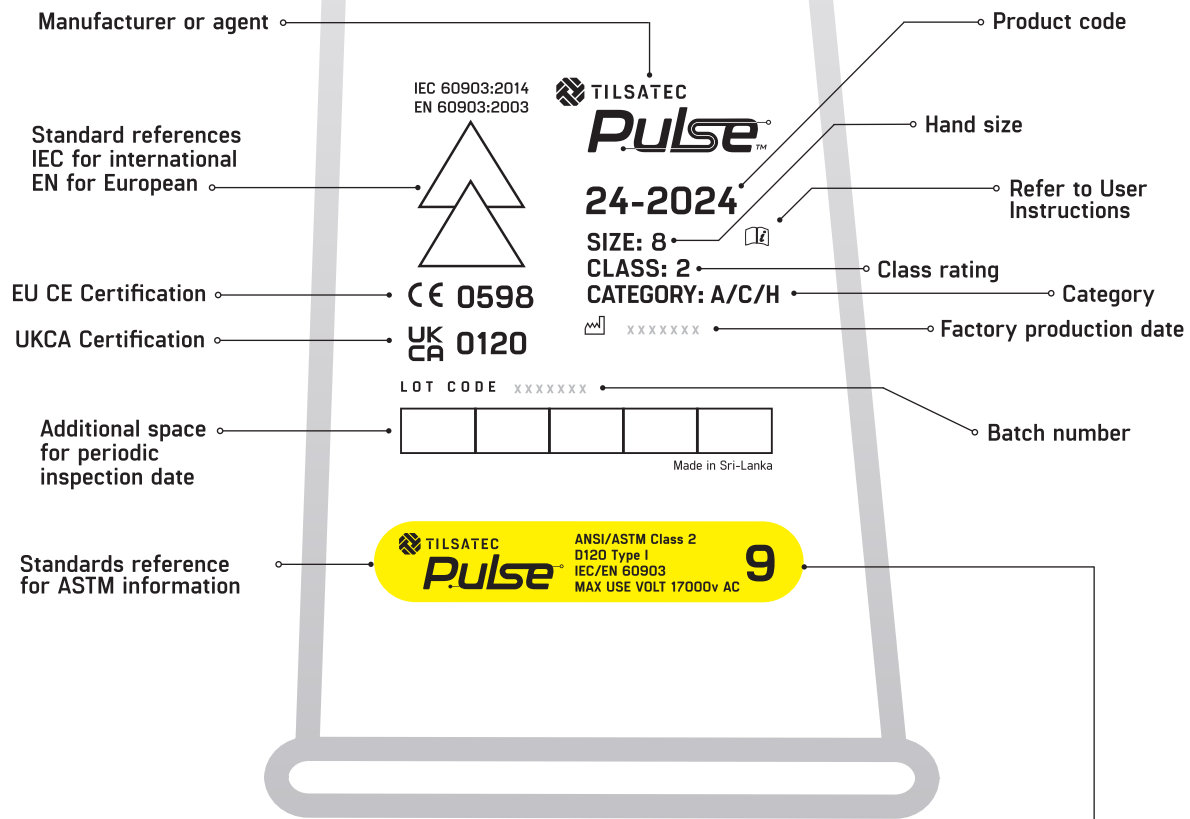


Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

AC = Alternative Current (Flows both ways)
DC = Direct Current (Flows one way)

GLOBAL GLOVE MARKINGS

It is important to familiarize yourself with how product information, relevant standards and product codes are laid out on our products. Always check labelling before using your item of PPE to ensure it meets the standards required for your task.



Rubber glove label color guide

<p>Class 00 Beige</p>	<p>Class 0 Red</p>	<p>Class 1 White</p>
<p>Class 2 Yellow</p>	<p>Class 3 Green</p>	<p>Class 4 Orange</p>



Sizing

Selecting the correct size is key to getting the highest level of dexterity. Many sizes are available (6 to 12 depending on the class) and you can find our hand size chart at the end of this brochure to measure your hand and select the correct size. Pulse gloves are available in standard lengths of 28 cm, 36 cm and 41 cm.



Testing, Inspection and Care

We recommend glove users conduct daily visual inspections to ensure gloves are fit for purpose.

IEC 60903:2014
EN 60903:2003



IEC EN60903 Re-Testing:

High voltage electrical gloves certified to class 1, 2, 3 and 4, are only valid for 6 months from date of manufacture. Thereafter, they must be dielectrically tested for use every 6 months (at no greater than 6 month intervals) according to EN 60903. This also includes any unused gloves held in storage. A physical inspection of these gloves must be conducted prior to every use by inflating the gloves to visually check for air leaks, damage or tears while pressurized. Any gloves found to be leaking, torn or damaged should be replaced immediately. For low voltage electrical gloves certified to Class 00 & 0, a physical inspection must be conducted prior to use by inflating the gloves and visually checking for air leaks, damage or tears while pressurized. Voluntary dielectric testing can be conducted but is not a requirement. Any gloves found to be leaking, torn or damaged should be replaced.



ASTM D120 Regulations for Re-Testing:

Electrical gloves can be stored up to 12 months from date of manufacturing as fully compliant to relevant standards. They can be issued anytime during this period but will only be valid for 6 months from date of issue into service. Any gloves that have not been issued into service and is older than 12 months of manufacturing date, must be retested according to the relevant standard.

Product Packaging

Each pair is supplied in an air sealed polybag and individual box. Outer cartons contain 10 pairs of individual pair boxes.





TILSATEC

PulseTM

PRODUCT RANGE



24-9010

Class 00 11" / 28cm Red

Category	A/C
Class	00
Cuff	Straight with beaded edge
Max Use	500V
Type	1
Color	Red
Length	11" / 28cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

UKCA 0120

CE 0598

24-9012

Class 00 11" / 28cm Yellow

Category	A/C
Class	00
Cuff	Straight with beaded edge
Max Use	500V
Type	1
Color	Yellow
Length	11" / 28cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

UKCA 0120

CE 0598

24-9020

Class 00 14" / 36cm Red

Category	A/C
Class	00
Cuff	Straight with beaded edge
Max Use	500V
Type	1
Color	Red
Length	14" / 36cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

UK CA 0120

CE 0598

24-9022

Class 00 14" / 36cm Yellow

Category	A/C
Class	00
Cuff	Straight with beaded edge
Max Use	500V
Type	1
Color	Yellow
Length	14" / 36cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

UK
CA 0120

CE 0598

24-0010

Class 0 11" / 28cm Red

Category	A/C
Class	0
Cuff	Straight with beaded edge
Max Use	1000V
Type	1
Color	Red
Length	11" / 28cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.



24-0012

Class 0 11" / 28cm Yellow

Category	A/C
Class	0
Cuff	Straight with beaded edge
Max Use	1000V
Type	1
Color	Yellow
Length	11" / 28cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

UK
CA 0120

CE 0598

24-0020

Class 0 14" / 36cm Red

Category	A/C
Class	0
Cuff	Straight with beaded edge
Max Use	1000V
Type	1
Color	Red
Length	14" / 36cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.



24-0022

Class 0 14" / 36cm Yellow

Category	A/C
Class	0
Cuff	Straight with beaded edge
Max Use	1000V
Type	1
Color	Yellow
Length	14" / 36cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

UKCA 0120

CE 0598

24-1024

Class 1 14" / 36cm Black/Red

Category	A/C
Class	1
Cuff	Straight with beaded edge
Max Use	7500V
Type	1
Color	Black/Red
Length	14" / 36cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Electric Public Transport Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Electrical Maintenance
- Excavation and Cable Laying
- Cable Jointing
- Field services

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

UK
CA 0120

CE 0598

24-2024

Class 2 14" / 36cm Black/Red

Category	A/C/H
Class	2
Cuff	Straight with beaded edge
Max Use	17000V
Type	1
Color	Black/Red
Length	14" / 36cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Substation Installation
- Electric Driven Public Transport Maintenance
- Switchgear and Transformer Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Overhead Power Line Maintenance and Repairs
- Excavation and Cable Laying

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.

UK
CA 0120

CE 0598

24-3024

Class 3 14" / 36cm Black/Red

Category	A/C/H
Class	3
Cuff	Straight with beaded edge
Max Use	26500V
Type	1
Color	Black/Red
Length	14" / 36cm
Sizes	8-11
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Substation Installation
- Electric Driven Public Transport Maintenance
- Switchgear and Transformer Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Overhead Power Line Maintenance and Repairs
- Excavation and Cable Laying

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



Manufactured and tested in accordance with IEC 60903, EN 60903 and ASTM D120.



24-4024

Class 4 16" / 41cm Black/Red

Category	A/C/H
Class	4
Cuff	Straight with beaded edge
Max Use	36000V
Type	1
Color	Black/Red
Length	16" / 41cm
Sizes	9-12
Packaging	1 pair p/polybag and individual box. 10 pairs p/carton



Applications

- Power Utilities and Public Works
- Substation Installation
- Electric Driven Public Transport Maintenance
- Switchgear and Transformer Maintenance
- EV Battery Manufacturing and Assembly
- EV Aftermarket Service and Maintenance
- Overhead Power Line Maintenance and Repairs
- Excavation and Cable Laying

CLASS	LENGTH CM/INCH		CATEGORIES	PROOF TEST VOLTAGE AC/DC	MAXIMUM USE VOLTAGE AC/DC	SIZES
Class 00 Beige	28/11	36/14	A/C	2.500/10.000	500/750	8, 9, 10, 11
Class 0 Red	28/11	36/14	A/C	5.000/20.000	1.000/1.500	8, 9, 10, 11
Class 1 White	36/14		A/C	10.000/40.000	7.500/11.250	8, 9, 10, 11
Class 2 Yellow	36/14		A/C/H	20.000/50.000	17.000/25.500	8, 9, 10, 11
Class 3 Green	36/14		A/C/H	30.000/60.000	26.500/39.750	8, 9, 10, 11
Class 4 Orange	41/16		A/C/H	40.000/70.000	36.000/54.000	9, 10, 11, 12

Certification



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UK
CA 0120

CE 0598



GLOVE SIZE GUIDE

Take the measurement around the hand as indicated (above) making sure not to include the thumb. To do this use a measuring tape or use a flexible length that can be straightened and measured against a standard ruler.

Use the conversion table below to find out the recommended size for use.



CURRENT TILSATEC PULSE™ SIZE RANGE

Recommended Size	6	7	8	9	10	11	12
Hand Measurement (cm)	14	16	18	21	24	26	28



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