



Arc Flash Gloves vs. Electrical Gloves

Electrical gloves and their leather protectors are a common request from our customers and the electrical (rubber) gloves are offered in several different “classes” depending on the voltage level that the employee will be working with.

CLASS COLOR:	PROOF TEST VOLTAGE AC/DC:	PROOF TEST VOLTAGE AC/DC:	GLOVE LABEL:
00 BEIGE	2,500 / 10,000	500 / 750*	10 NOVAX™ by G.B. INDUSTRIES ANSI / ASTM 2009Z D130 CLASS 00 TYPE I MAX USE VOLT 500V AC
0 RED	5,000 / 20,000	1,000 / 1,500*	10 NOVAX™ by G.B. INDUSTRIES ANSI / ASTM 2009Z D130 CLASS 0 TYPE I MAX USE VOLT 500V AC
1 WHITE	10,000 / 40,000	7,500 / 11,250*	10 NOVAX™ by G.B. INDUSTRIES ANSI / ASTM 2009Z D130 CLASS 1 TYPE I MAX USE VOLT 7500V AC
2 YELLOW	20,000 / 50,000	17,000 / 25,500*	10 NOVAX™ by G.B. INDUSTRIES ANSI / ASTM 2009Z D130 CLASS 2 TYPE I MAX USE VOLT 17500V AC
3 GREEN	30,000 / 60,000	26,500 / 39,750*	10 NOVAX™ by G.B. INDUSTRIES ANSI / ASTM 2009Z D130 CLASS 3 TYPE I MAX USE VOLT 26500 V AC
4 ORANGE	40,000 / 70,000	36,000 / 54,000*	10 NOVAX™ by G.B. INDUSTRIES ANSI / ASTM 2009Z D130 CLASS 4 TYPE I MAX USE VOLT 36000 V AC

When choosing the leather protectors to wear over the rubber gloves, there are guidelines that should be followed regarding the minimum distance between the end of the cuff of the rubber glove and the end of the cuff of the leather protector. These guidelines are based on the class of electrical glove as mentioned above.

LEATHER PROTECTORS - DETERMINING LENGTH:

THE MINIMUM DISTANCE FROM THE LEATHER PROTECTOR CUFF TO THE BEAD OF THE RUBBER GLOVE FOR DIFFERENT CLASSES IS LISTED BELOW - FROM ASTM F496



Electrical gloves with leather protectors are most commonly used by those individuals that are working with energized electrical panels or near power lines. The purpose of the rubber gloves and leather protectors is to protect the individual's hands and lower arm from electric shock. They also offer some protection from the heat that is generated during an arc flash. Some individuals find the combination of rubber gloves and leather protectors bulky and cumbersome when performing certain tasks. Some may consider using arc flash gloves instead, which have better dexterity and grip. However, arc flash gloves do not provide any form of protection from a shock hazard. While arc flash gloves are good at providing protection from the intense heat and energy that results from an arc flash, an individual should not wear arc flash gloves if a shock hazard exists. It is also important to note that the protection offered by arc flash gloves is decreased if they become wet or moist. An arc flash coming into contact with wet or moist gloves can create steam, causing additional danger to the individual.



Conney #28843 (Eureka 13.4 Heat FR Arc-Flash Gloves: Gray, Size 10)



Conney #36993 (Superior Glove® Clutch Gear® Flame-Resistant Arc Flash Mechanics Gloves, 15-cal rated: X-Large)

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