

Attachment 6a – AC Shock Protection Approach Boundaries

Nominal AC System Voltage, Phase to Phase	Limited Approach Boundary (movable conductor)	Limited Approach Boundary (fixed conductor)	Restricted Approach Boundary	Prohibited Approach Boundary
<50	Not specified	Not specified	Not specified	Not specified
50 to 300	10 ft 0 in	3 ft 6 in	Avoid contact	Avoid contact
301 to 750	10 ft 0 in	3 ft 6 in	1 ft 0 in	0 ft 1 in
751 to 15kV	10 ft 0 in	5 ft 0 in	2 ft 2 in	0 ft 7 in
15.1 kV to 36 kV	10 ft 0 in	6 ft 0 in	2 ft 7 in	0 ft 10 in
36.1 kV to 46 kV	10 ft 0 in	8 ft 0 in	2 ft 9 in	1 ft 5 in
46.1 kV to 72.5 kV	10 ft 0 in	8 ft 0 in	3 ft 3 in	2 ft 2 in
72.6 kV to 121 kV	10 ft 8 in	8 ft 0 in	3 ft 4 in	2 ft 9 in
138 kV to 145 kV	11 ft 0 in	10 ft 0 in	3 ft 10 in	3 ft 4 in

NOTES:

From NFPA70E (2012) Table 130.4(C)(a)

All dimensions are distance from live part to employee.

Attachment 6b – DC Shock Protection Approach Boundaries

Nominal DC System Voltage, Phase to Phase	Limited Approach Boundary (movable conductor)	Limited Approach Boundary (fixed conductor)	Restricted Approach Boundary	Prohibited Approach Boundary
<100	Not specified	Not specified	Not specified	Not specified
100 to 300	10 ft 0 in	3 ft 6 in	Avoid contact	Avoid contact
301 to 1 kV	10 ft 0 in	3 ft 6 in	1 ft 0 in	0 ft 1 in
1,1 kV to 5 kV	10 ft 0 in	5 ft 0 in	1 ft 5 in	0 ft 4 in
5 kV to 15 kV	10 ft 0 in	5 ft 0 in	2 ft 2 in	0 ft 7 in
15.1 kV to 45 kV	10 ft 0 in	8 ft 0 in	2 ft 9 in	1 ft 5 in
45.1 kV to 75 kV	10 ft 0 in	8 ft 0 in	3 ft 2 in	2 ft 1 in
75.1 kV to 150 kV	10 ft 8 in	10 ft 0 in	4 ft 0 in	3 ft 2 in
150.1 kV to 250 kV	11 ft 8 in	11 ft 8 in	5 ft 3 in	5 ft 0 in

NOTES:

From NFPA70E (2012) Table 130.4(C)(b)

All dimensions are distance from live part to employee.