

UGLY'S™

ELECTRICAL REFERENCES

2023
EDITION



MINIMUM DEPTH OF CLEAR WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT

NOMINAL VOLTAGE TO GROUND	CONDITIONS		
	1	2	3
	Minimum clear distance (feet)		
0 - 100	3	3	3
101 - 500	3	3½	4
501 - 2500	3	4	5
2501 - 10000	4	5	6
10001 - 25,000	5	6	8
25,001 - 75 kV	6	8	10
Above 75 kV	6	10	12

NOTES:

Condition 1 = Live parts are exposed on one side of the working space only.
Condition 2 = Live parts are exposed on both sides of the working space, but are adequately guarded by insulating materials.

Condition 3 = Live parts are exposed on one side of the working space and grounded parts are exposed on the other side of the working space. Parts are considered to be grounded if made of cast-iron, brick, or tile.

Condition 4 = Live parts are exposed on both sides of the working space.

Adapted with permission from Article 110-1 of the National Electrical Code®.
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Adapted from NFPA® Table 110.2(B)(2) to and 110.2(A)(2).



MINIMUM CLEARANCE OF LIVE PARTS

NOMINAL VOLTAGE RATING in	DEPTH OF WORKING SPACE in		MINIMUM CLEARANCE OF LIVE PARTS, inches			
	FEET/INCH	FEET/INCH	FRONT TO FRONT	FRONT TO REAR	REAR TO REAR	REAR TO REAR
0.4 - 0.15	36	60	7	4.5	8	5.0
2.2	36	75	7	5.5	8	6.0
12.5	110	90	12	7.5	7	6.0
14.4	110	110	12	9.0	7	6.8
25	130	125	15	10.5	10	7.5
24.0	150	150	15	12.5	10	8.5
40	200	200	18	15.0	13	12.0
40	200	—	18	—	13	—
45	250	—	21	—	17	—
45	250	—	21	—	17	—
55	300	—	24	—	20	—
110	350	—	30	—	25	—
138	500	—	35	—	32	—
—	600	—	43	—	35	—
161	600	—	43	—	35	—
—	750	—	50	—	40	—
200	750	—	52	—	45	—
—	900	—	60	—	51	—
1050	—	1050	—	65	—	—

- The clearance listed above are for dead parts and bare conductors, under ideal conditions. "Service conditions" affects them and be considered increased in other configurations (e.g., the above clearances should be increased). Extra space should always be provided if possible.
- The required minimum voltage is determined by a system's surge protective equipment.

Adapted from NFPA® Table 110.2(B)(2).

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