

Ground Wire Continuity PAL 1, 2023

Nominal Conductor cross section S mm ²	Conductor resistance R ^l at 30 °C (86 °F) mΩ/m
1.5	12.575 5
2.5	7.566 1
4	4.739 2
6	3.149 1
10	1.881 1

(Wire length x Size Variable) + (Terminal Points x 10mΩ) + (other wire size calculations) = Calculated Resistance Value

Ground wire continuity	Conductor Length	Number of terminal points	Calcuated Resistance Value
PE contact on main power cord to electrical cabinet	3m	2	34.22 mΩ
PE contact on main power cord to assembly grid	2.4m	4	104.39 mΩ
PE contact on main power cord to switch cabinet door	2m	6	119.37 mΩ
PE contact on main power cord to outlet -X13	1.3m	4	90.57 mΩ
PE contact on main power cord to power supply unit	0.6m	6	???
PE contact on main power cord to -X1.7 PELV	1.8m	5	???
PE contact on main power cord to control panel	2.9m	10	???
PE contact on main power cord to mechanical assembly	2.1m	3	???

1.5 Wire Size
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