ContinuityTest_All_Passed-Failed

Legend: Cable01_09_05_2024_11_24_47, Cable01_09_05_2024_12_11_9, Cable02_06_05_2024_11_50_37

Parameters : I=500, Thresh.= 40, T_{rise} = 2 s, T_{wait} = 2 s, T_{meas} = 1 s, V_{lim} = 48

InsulationTest_All_Passed-Failed

Parameters : V=50 V, Thresh.= 100 MΩ, T_{rise} = 1 s, T_{wait} = 8 s, T_{meas} = 8 s, i_{lim} = 1.95 mA, V_{ramp} =120 V/s

InsulationTest_HV_Resistence

R [Ω]

V=50V, Thresh=100 MΩ
T_{rise}=1s, T_{meas}=100 2s

T_{rise}=1 s, T_{wait}=8 s, T_{meas}=8 s

HV threshold

Tsensor threshold

μ_1 = 7.24e+10 μ_2 = 7.09e+10 μ_3 = 5.63e+10
σ_1 = 4.00e+10 σ_2 = 3.89e+10 σ_3 = 3.65e+10

Initial Parameters : V=1.2 kV, Thresh.= 1 GΩ, T_{rise} = 10 s, T_{wait} = 8 s, T_{meas} = 1 s, i_{lim} = 1.95 mA, V_{ramp} =120 V/s

InsulationTest_LV_Resistence

R [Ω]

threshold

μ_1 = 1.72e+09 μ_2 = 1.51e+09 μ_3 = 1.34e+09
σ_1 = 4.43e+08 σ_2 = 4.52e+08 σ_3 = 7.71e+08

Parameters : V=50 V, Thresh.= 100 MΩ, T_{rise} = 1 s, T_{wait} = 8 s, T_{meas} = 8 s, i_{lim} = 1.95 mA, V_{ramp} =120 V/s

ContinuityTest_ResistenceHV

R[Ω]

threshold

Over T. 3.94e+09

σ_1 = 0.327 σ_2 = 0.120 σ_3 = 0.129
μ_1 = 11.745 μ_2 = 11.683 μ_3 = 12.199
L^2_1 = 77.266 L^2_2 = 76.856 L^2_3 = 80.250

Parameters : I=500, Thresh.= 40, T_{rise} = 2 s, T_{wait} = 2 s, T_{meas} = 1 s, V_{lim} = 48

ContinuityTest_ResistenceLV

R[Ω]

threshold

σ_1 = 0.007 σ_2 = 0.007 σ_3 = 0.119
μ_1 = 0.559 μ_2 = 0.559 μ_3 = 0.605
L^2_1 = 36.652 L^2_2 = 36.677 L^2_3 = 38.772

Parameters : I=500, Thresh.= 40, T_{rise} = 2 s, T_{wait} = 2 s, T_{meas} = 1 s, V_{lim} = 48