CERN - Lab. CMS Cables - B15S-012

Software version	4.14-00
Unit under test	FULL_TEST_su_cavo_ps_pp1_V3
Filename	C:\Users\Public\Documents\CEETIS\Projects\FULL_TEST_su_cavo_ps_pp1_V3.project
Date/Time	09/05/2024 11:24:47
Serial number	Cable01

Test result	
Continuity test	*2 errors*
LV isolation test	No commands
HV isolation test	*1 error*
Test of electrical components	No commands
Voltage and Current	No commands
Other tests	Pass
FAILED	

Ambient Temperature:°C
Ambient Rel.Humidity:%
CONTINUITY AND RESISTANCE MEASUREMENTS
-->LV channels

Parameters for continuity test
Current=500mA; Threshold=40Ohm; Trise=2ms; Twait=2s; Tmeas=1ms; Auto ranging=On; Voltage limit=48V

Parameters for continuity test
Threshold=1Ohm

Passed	LV1	LV1 S	LV1 Sr	559,4mOhm
Passed	LVreturn1	LVR1 S	LVR1 Sr	557,1mOhm
Passed	LV2	LV2 S	LV2 Sr	563,8mOhm
Passed	LVreturn2	LVR2 S	LVR2 Sr	556,2mOhm
Passed	LV3	LV3 S	LV3 Sr	564,9mOhm
Passed	LVreturn3	LVR3 S	LVR3 Sr	559mOhm
Passed	LV4	LV4 S	LV4 Sr	558,5mOhm
Passed	LVreturn4	LVR4 S	LVR4 Sr	552,6mOhm
Passed	LV5	LV5 S	LV5 Sr	558,2mOhm
Passed	LVreturn5	LVR5 S	LVR5 Sr	553,1mOhm
Passed	LV6	LV6 S	LV6 Sr	548mOhm
Passed	LVreturn6	LVR6 S	LVR6 Sr	551,6mOhm
Passed	LV7	LV7 S	LV7 Sr	567,4mOhm
Passed	LVreturn7	LVR7 S	LVR7 Sr	553,1mOhm
Passed	LV8	LV8 S	LV8 Sr	544,9mOhm
Passed	LVreturn8	LVR8 S	LVR8 Sr	543,6mOhm
Passed	LV9	LV9 S	LV9 Sr	567,3mOhm
Passed	LVreturn9	LVR9 S	LVR9 Sr	558,7mOhm
Passed	LV10	LV10 S	LV10 Sr	562,6mOhm
Passed	LVreturn10	LVR10 S	LVR10 Sr	558,2mOhm
Passed	LV11	LV11 S	LV11 Sr	565,7mOhm
Passed	LVreturn11	LVR11 S	LVR11 Sr	564,6mOhm
Passed	LV12	LV12 S	LV12 Sr	562mOhm
Passed	LVreturn12	LVR12 S	LVR12 Sr	565,7mOhm

Passed	PH	PH S	PH Sr	571,5mOhm
Passed	PHreturn	PHR S	PHR Sr	558,1mOhm

--> Drains

Open	*Drain*	*Drain S*	*Drain r*	*625,9MOhm*

HV channels and Tsensor

Parameters for continuity test

Threshold=15Ohm

Passed	Tsensor1	TS1 S	TS1 Sr	11,72Ohm
Passed	Tsensor2	TS2 S	TS2 Sr	11,7Ohm
Open	*Tsensor3*	*TS3 S*	*TS3 Sr*	*>3,936GOhm*
Passed	Tsensor4	TS4 S	TS4 Sr	11,67Ohm
Passed	H1	H1 S	H1 Sr	11,58Ohm
Passed	H2	H2 S	H2 Sr	11,8Ohm
Passed	H3	H3 S	H3 Sr	11,54Ohm
Passed	H4	H4 S	H4 Sr	11,66Ohm
Passed	HR1	HR1 S	HR1 Sr	11,6Ohm
Passed	H5	H5 S	H5 Sr	11,74Ohm
Passed	H6	H6 S	H6 Sr	11,5Ohm
Passed	H7	H7 S	H7 Sr	11,83Ohm
Passed	H8	H8 S	H8 Sr	11,78Ohm
Passed	HR2	HR2 S	HR2 Sr	11,66Ohm
Passed	H9	H9 S	H9 Sr	11,89Ohm
Passed	H10	H10 S	H10 Sr	11,77Ohm
Passed	H11	H11 S	H11 Sr	11,45Ohm
Passed	H12	H12 S	H12 Sr	11,52Ohm
Passed	HR3	HR3 S	HR3 Sr	11,54Ohm

INSULATION TEST 1 VS all

--> LV channels

Parameters for HV isolation test

Voltage=50V; Threshold=100MOhm; Trise=10s; Twait=3s; Tmeas=1s; Auto ranging=On; Current limit=1,95mA; Tmeas red.=Off; Tmeas fact.=1; Voltage ramp=120V/s

Parameters for HV isolation test

Trise=1s; Twait=8s; Tmeas=8s

Passed; LV1; 2311273771.69321; Ohm; 2,311GOhm
Passed; LVR1; 1993541157.42706; Ohm; 1,994GOhm
Passed; LV2; 1988244827.50544; Ohm; 1,988GOhm
Passed; LVR2; 2301396691.46384; Ohm; 2,301GOhm
Passed; LV3; 2309193526.26052; Ohm; 2,309GOhm
Passed; LVR3; 1663244834.21197; Ohm; 1,663GOhm
Passed; LV4; 1290735498.37421; Ohm; 1,291GOhm
Passed; LVR4; 1032925156.20429; Ohm; 1,033GOhm
Passed; LV5; 2259416624.04094; Ohm; 2,259GOhm
Passed; LVR5; 1601703189.78743; Ohm; 1,602GOhm
Passed; LV6; 1276406993.25255; Ohm; 1,276GOhm
Passed; LVR6; 1144959028.19898; Ohm; 1,145GOhm
Passed; LV7; 1625819390.97378; Ohm; 1,626GOhm
Passed; LVR7; 1985974797.26275; Ohm; 1,986GOhm
Passed; LV8; 1774093257.25668; Ohm; 1,774GOhm
Passed; LVR8; 787109863.673495; Ohm; 787,1MOhm
Passed; LV9; 2535292844.86757; Ohm; 2,535GOhm
Passed; LVR9; 2071526908.10781; Ohm; 2,072GOhm
Passed; LV10; 1414965425.21754; Ohm; 1,415GOhm
Passed; LVR10; 2298480100.32004; Ohm; 2,298GOhm
Passed; LV11; 2004374677.87577; Ohm; 2,004GOhm
Passed; LVR11; 1787329239.47976; Ohm; 1,787GOhm
Passed; LV12; 1906445997.15821; Ohm; 1,906GOhm
Passed; LVR12; 1667787993.86862; Ohm; 1,668GOhm

Passed; PH; 1529818173.94454; Ohm; 1,53GOhm
Passed; PHR; 1991465713.41551; Ohm; 1,991GOhm
--> HV channels
Parameters for HV isolation test
Voltage=1,2kV; Threshold=1GOhm; Trise=10s; Tmeas=1s

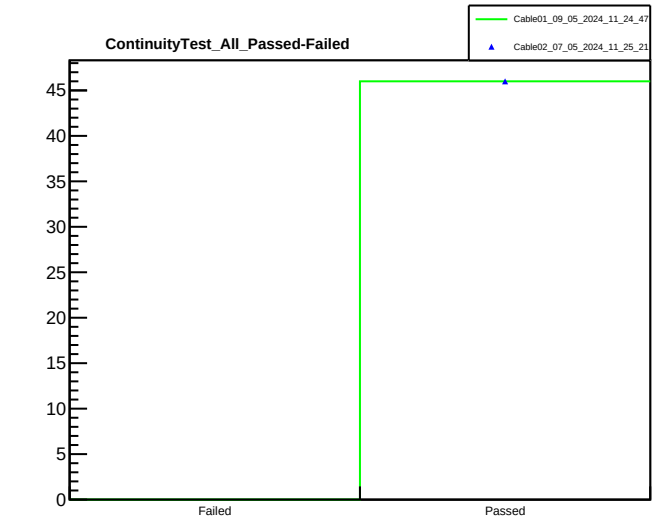
Passed	HV1	H1 F		34,44GOhm
Passed	HV2	H2 F		>98,41GOhm
Passed	HV3	H3 F		>98,41GOhm
Passed	HV4	H4 F		75,2GOhm
Passed	HV5	H5 F		>98,41GOhm
Passed	HV6	H6 F		>98,41GOhm
Passed	HV7	H7 F		>98,41GOhm
Passed	HV8	H8 F		>98,41GOhm
Passed	HV9	H9 F		>98,41GOhm
Passed	HV10	H10 F		>98,41GOhm
Passed	HV11	H11 F		>98,41GOhm
Passed	HV12	H12 F		>98,41GOhm
Passed	HVreturn1	HR1 F		>98,41GOhm
Passed	HVreturn2	HR2 F		>98,41GOhm
Passed	HVreturn3	HR3 F		>98,41GOhm

Parameters for HV isolation test
Voltage=50V; Threshold=100MOhm; Trise=1s; Tmeas=2s

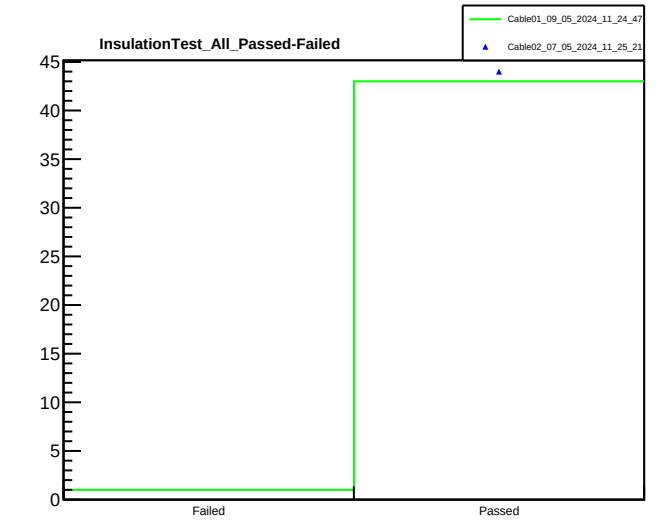
Passed	Tsensor1	TS1 F		>4,101GOhm
Passed	Tsensor2	TS2 F		>4,101GOhm
Passed	Tsensor3	TS3 F		>4,101GOhm
Short	*Tsensor4*	*TS4 F*	*?NotSearched?*	*<25,51kOhm*

INSULATION GROUP TEST
--> LV channels
Parameters for HV isolation test
Threshold=10MOhm
Passed; LV_group; 136443657.878759; Ohm; 136,4MOhm
--> HV channels
Parameters for HV isolation test
Voltage=1,2kV; Threshold=100MOhm; Trise=10s

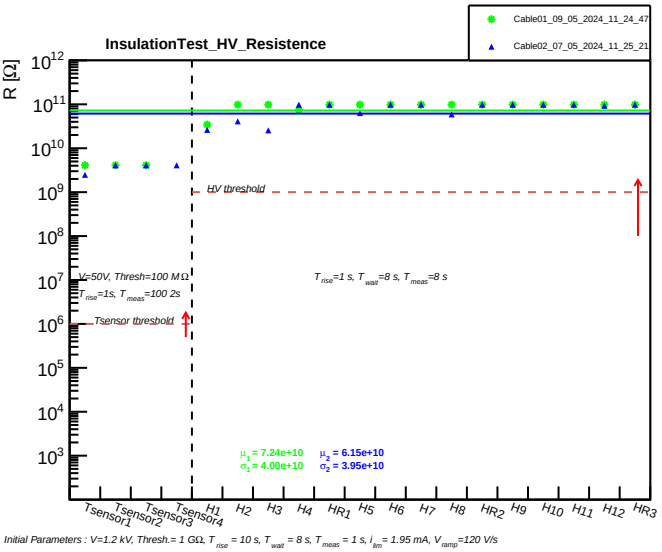
Passed	HV_group	HV	Low group	>4,921GOhm



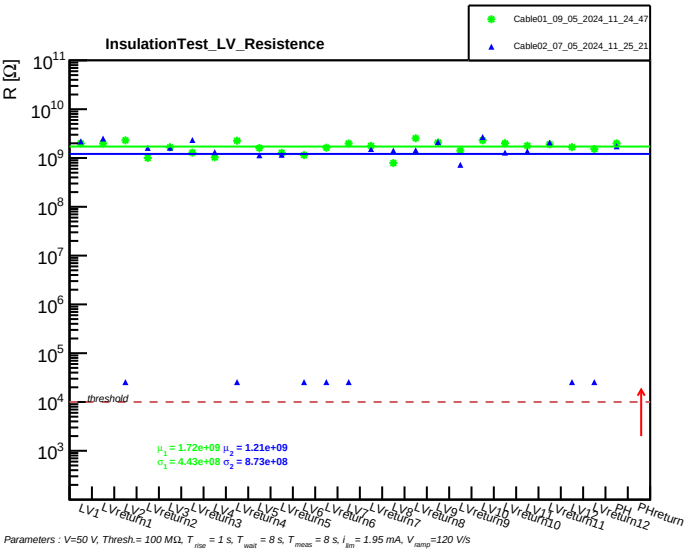
Parameters : I=500, Thresh.= 40, T_{rise} = 2 s, T_{wait} = 2 s, T_{meas} = 1 s, V_{lim} = 48



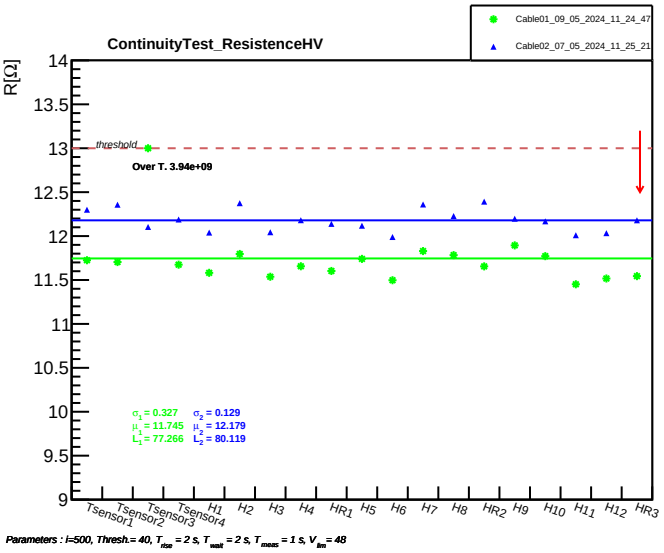
Parameters : V=50 V, Thresh.= 100 MΩ, T_{rise} = 1 s, T_{wait} = 8 s, T_{meas} = 8 s, i_{lim} = 1.95 mA, V_{ramp}=120 V/s



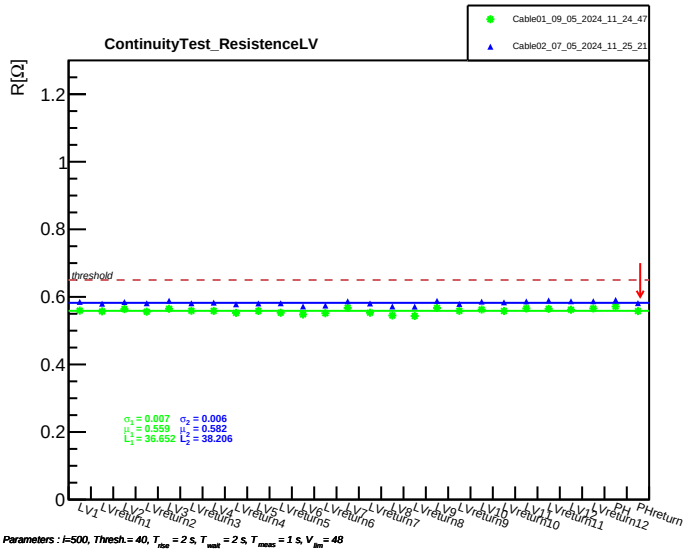
Initial Parameters : V=1.2 kV, Thresh.= 1 GΩ, T_{rise} = 10 s, T_{wait} = 8 s, T_{meas} = 1 s, i_{lim} = 1.95 mA, V_{ramp}=120 V/s



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



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



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