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 12:11:09
Serial number	Cable01

Test result	
Continuity test	*1 error*
LV isolation test	No commands
HV isolation test	Pass
Test of electrical components	No commands
Voltage and Current	No commands
Other tests	Pass
F A I L E D	

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	559,8mOhm
✓	**Passed**	LVreturn1	LVR1 S	LVR1 Sr	557,8mOhm
✓	**Passed**	LV2	LV2 S	LV2 Sr	564,4mOhm
✓	**Passed**	LVreturn2	LVR2 S	LVR2 Sr	556,9mOhm
✓	**Passed**	LV3	LV3 S	LV3 Sr	564,8mOhm
✓	**Passed**	LVreturn3	LVR3 S	LVR3 Sr	559,4mOhm
✓	**Passed**	LV4	LV4 S	LV4 Sr	558,7mOhm
✓	**Passed**	LVreturn4	LVR4 S	LVR4 Sr	553mOhm
✓	**Passed**	LV5	LV5 S	LV5 Sr	558,4mOhm
✓	**Passed**	LVreturn5	LVR5 S	LVR5 Sr	553,5mOhm
✓	**Passed**	LV6	LV6 S	LV6 Sr	549mOhm
✓	**Passed**	LVreturn6	LVR6 S	LVR6 Sr	551,6mOhm
✓	**Passed**	LV7	LV7 S	LV7 Sr	567,8mOhm
✓	**Passed**	LVreturn7	LVR7 S	LVR7 Sr	553,6mOhm
✓	**Passed**	LV8	LV8 S	LV8 Sr	545,5mOhm
✓	**Passed**	LVreturn8	LVR8 S	LVR8 Sr	544,3mOhm
✓	**Passed**	LV9	LV9 S	LV9 Sr	567,7mOhm
✓	**Passed**	LVreturn9	LVR9 S	LVR9 Sr	559,1mOhm
✓	**Passed**	LV10	LV10 S	LV10 Sr	562,6mOhm
✓	**Passed**	LVreturn10	LVR10 S	LVR10 Sr	558,3mOhm
✓	**Passed**	LV11	LV11 S	LV11 Sr	565,9mOhm
✓	**Passed**	LVreturn11	LVR11 S	LVR11 Sr	564,5mOhm
✓	**Passed**	LV12	LV12 S	LV12 Sr	562,2mOhm
	Passed	LVreturn12	LVR12 S	LVR12 Sr	566,3mOhm

Passed	PH	PH S	PH Sr	571,9mOhm
Passed	PHreturn	PHR S	PHR Sr	558,5mOhm

--> Drains

Open	*Drain*	*Drain S*	*Drain r*	*230,8MOhm*

HV channels and Tsensor

Parameters for continuity test

Threshold=15Ohm

Passed	Tsensor1	TS1 S	TS1 Sr	11,73Ohm
Passed	Tsensor2	TS2 S	TS2 Sr	11,71Ohm
Passed	Tsensor3	TS3 S	TS3 Sr	11,75Ohm
Passed	Tsensor4	TS4 S	TS4 Sr	11,68Ohm
Passed	H1	H1 S	H1 Sr	11,59Ohm
Passed	H2	H2 S	H2 Sr	11,8Ohm
Passed	H3	H3 S	H3 Sr	11,55Ohm
Passed	H4	H4 S	H4 Sr	11,66Ohm
Passed	HR1	HR1 S	HR1 Sr	11,61Ohm
Passed	H5	H5 S	H5 Sr	11,75Ohm
Passed	H6	H6 S	H6 Sr	11,5Ohm
Passed	H7	H7 S	H7 Sr	11,84Ohm
Passed	H8	H8 S	H8 Sr	11,79Ohm
Passed	HR2	HR2 S	HR2 Sr	11,66Ohm
Passed	H9	H9 S	H9 Sr	11,9Ohm
Passed	H10	H10 S	H10 Sr	11,78Ohm
Passed	H11	H11 S	H11 Sr	11,46Ohm
Passed	H12	H12 S	H12 Sr	11,53Ohm
Passed	HR3	HR3 S	HR3 Sr	11,55Ohm

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; 1753395299.70721; Ohm; 1,753GOhm
Passed; LVR1; 1963525816.75675; Ohm; 1,964GOhm
Passed; LV2; 1518350115.67422; Ohm; 1,518GOhm
Passed; LVR2; 1393477823.07077; Ohm; 1,393GOhm
Passed; LV3; 2405657492.89531; Ohm; 2,406GOhm
Passed; LVR3; 1815033198.46476; Ohm; 1,815GOhm
Passed; LV4; 1808422240.38285; Ohm; 1,808GOhm
Passed; LVR4; 1079605389.16664; Ohm; 1,08GOhm
Passed; LV5; 1420106070.20949; Ohm; 1,42GOhm
Passed; LVR5; 2327566774.07918; Ohm; 2,328GOhm
Passed; LV6; 752857907.45437; Ohm; 752,9MOhm
Passed; LVR6; 908168441.81975; Ohm; 908,2MOhm
Passed; LV7; 1454739733.06761; Ohm; 1,455GOhm
Passed; LVR7; 828755003.08767; Ohm; 828,8MOhm
Passed; LV8; 883241971.30306; Ohm; 883,2MOhm
Passed; LVR8; 1599903830.27811; Ohm; 1,6GOhm
Passed; LV9; 1332443568.84319; Ohm; 1,332GOhm
Passed; LVR9; 1416625825.99078; Ohm; 1,417GOhm
Passed; LV10; 997086663.076105; Ohm; 997,1MOhm
Passed; LVR10; 2132950222.11616; Ohm; 2,133GOhm
Passed; LV11; 1511543994.91111; Ohm; 1,512GOhm
Passed; LVR11; 2200968636.11151; Ohm; 2,201GOhm
Passed; LV12; 1422146575.86742; Ohm; 1,422GOhm
Passed; LVR12; 1609329675.1012; Ohm; 1,609GOhm

Passed; PH; 1310119608.01493; Ohm; 1,31GOhm
Passed; PHR; 1560413351.48201; Ohm; 1,56GOhm
--> HV channels
Parameters for HV isolation test
Voltage=1,2kV; Threshold=1GOhm; Trise=10s; Tmeas=1s

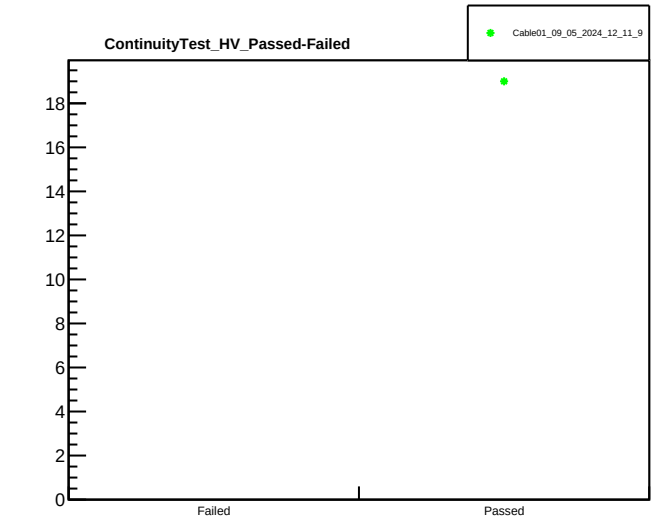
Passed	HV1	H1 F		>98,41GOhm
Passed	HV2	H2 F		76,92GOhm
Passed	HV3	H3 F		>98,41GOhm
Passed	HV4	H4 F		>98,41GOhm
Passed	HV5	H5 F		>98,41GOhm
Passed	HV6	H6 F		73,57GOhm
Passed	HV7	H7 F		>98,41GOhm
Passed	HV8	H8 F		91,89GOhm
Passed	HV9	H9 F		>98,41GOhm
Passed	HV10	H10 F		98,05GOhm
Passed	HV11	H11 F		33,93GOhm
Passed	HV12	H12 F		>98,41GOhm
Passed	HVreturn1	HR1 F		>98,41GOhm
Passed	HVreturn2	HR2 F		>98,41GOhm
Passed	HVreturn3	HR3 F		94,81GOhm

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

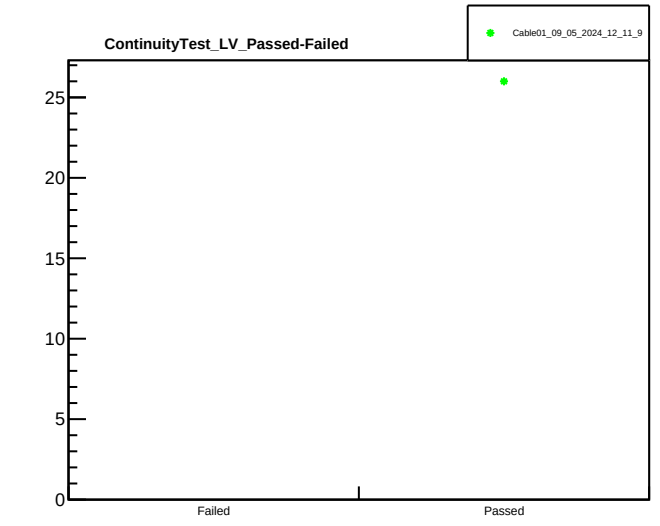
Passed	Tsensor1	TS1 F		>4,101GOhm
Passed	Tsensor2	TS2 F		>4,101GOhm
Passed	Tsensor3	TS3 F		>4,101GOhm
Passed	Tsensor4	TS4 F		>4,101GOhm

INSULATION GROUP TEST
--> LV channels
Parameters for HV isolation test
Threshold=10MOhm
Passed; LV_group; 199911588.983386; Ohm; 199,9MOhm
--> HV channels
Parameters for HV isolation test
Voltage=1,2kV; Threshold=100MOhm; Trise=10s

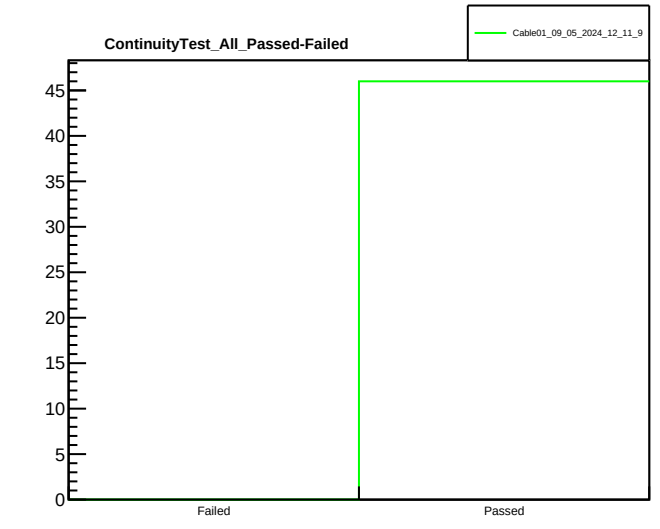
Passed	HV_group	HV	Low group	>4,921GOhm



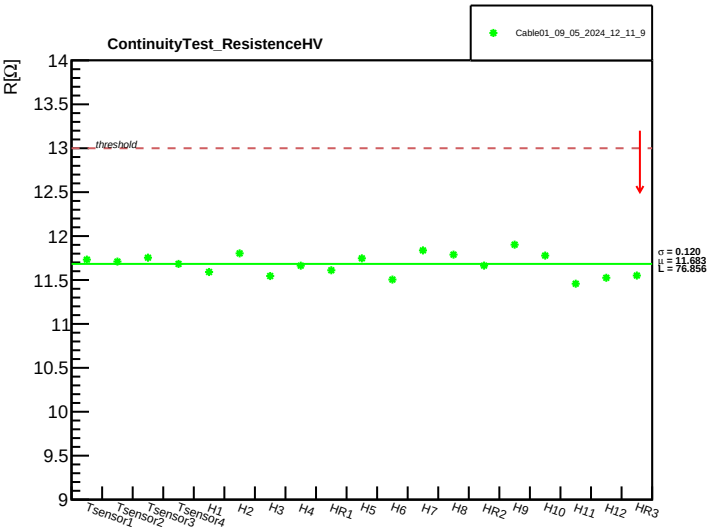
Parameters : i=500, Thresh.= 40, T_{rise} = 2 s, T_{wait} = 2 s, T_{meas} = 1 s, V_{lim} = 48



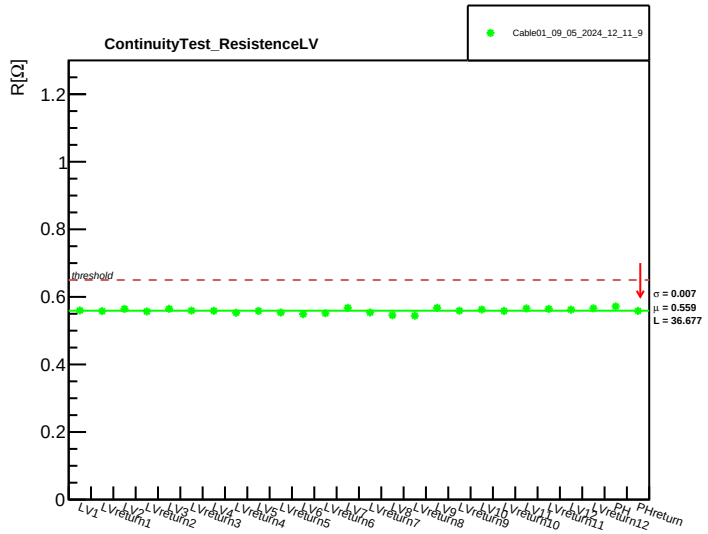
Parameters : i=500, Thresh.= 40, T_{rise} = 2 s, T_{wait} = 2 s, T_{meas} = 1 s, V_{lim} = 48



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



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