Delphi Connector Test Frame

Test Steps：
1. A-B Z & θ （10MHz A-C open）
2. C-D Z & θ （10MHz A-C open）
3. B-D Z & θ （10MHz A-C short）
4. B-D Short Circuit Test(500V A-C open)

Computer

LAN(2018)

USB/RS232

PLC

IN
IN
IN

Busy
HV P/F
LCR P/F
Reset
Trig
IN

GPIB / LAN

GPIB/USB/RS232

USB

WK6510P

High Voltage Test 500V

Digit IO Card

Test signal cables

Open/Short swich

WKE Control Box

5 5

1 1   3 3   2 2   4 4

DUT

A   C

Test Connectors(DUT)

B   D

Design: Abama Cai
Company: Wayne Kerr Electronics

Test Flow Chart

Start

Initialize WK Control Box,
6500P and HV Meter Status

Busy OFF

PLC

Wait

Trig

No

Yes

Busy ON

Reset

Yes

No

LCR P/F

LCR Test condition: 10MHz 1V
Series Z & θ

HV P/F

HV condition: 500V

WKE Switch Box
Channel 1-3 LCR Test

Reset

No

Yes

WKE Switch Box
Channel 2-4 LCR Test

Reset

No

Yes

Short Relay 5

Reset

No

Yes

WKE Switch Box
Channel 2-4 LCR Test

Reset

No

Yes

Open Relay 5

Reset

No

Yes

WKE Switch Box
Channel 1-3 HV Test

Busy OFF

This Test End
Go To Next

This Part need customer give the hv machine, let us to do this part of software

Design: Abama Cai
Company: Wayne Kerr Electronics