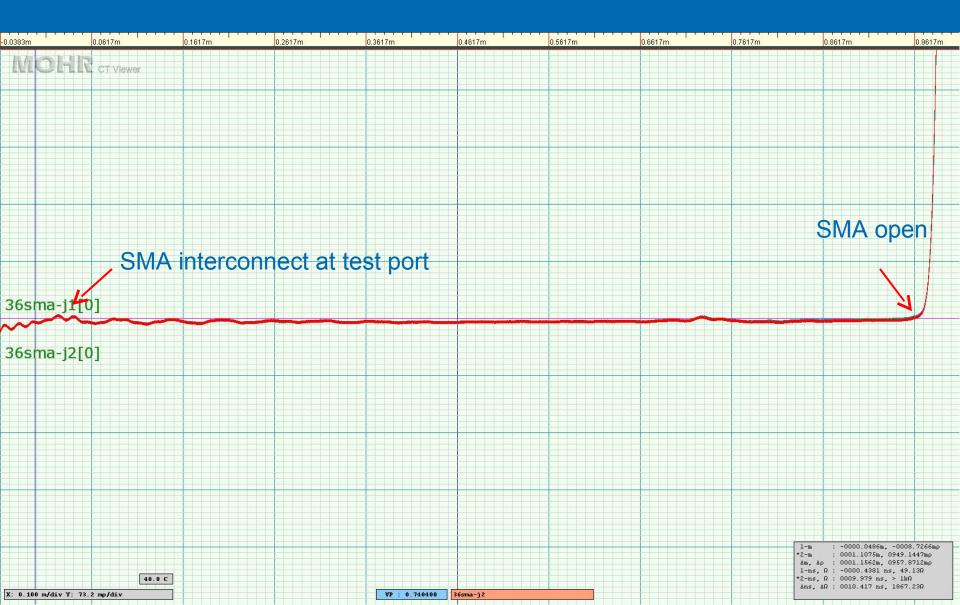


#### Mohr CT100 TDR and CT Viewer™ Cable and Interconnect Quality Control Example:

Interconnect Impedance Profile and Electrical Length Variation in 50 Ohm SMA and BNC Cables



#### Cable A: precision 36 in. 50 Ohm SMA cable X: 0.100 m/div, Y: 73.2 millirho/div





#### Cable A: 36 in. 50 Ohm SMA cable, tested from both ends X: 0.100 m/div, Y: 73.2 millirho/div



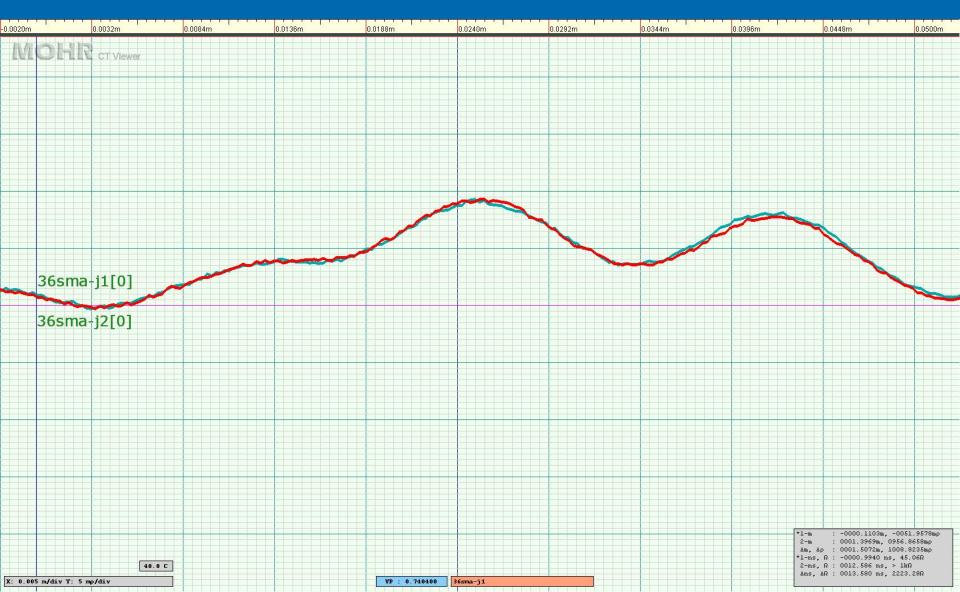


## Cable A: 36 in. 50 Ohm SMA interconnects, detail comparison SMA interconnects show different impedance profiles X: 0.005 m/div, Y: 5 millirho/div





## Cable B: Another 36 in. 50 Ohm SMA cable, interconnect detail Essentially identical appearance of both interconnects X: 0.005 m/div, Y: 5 millirho/div



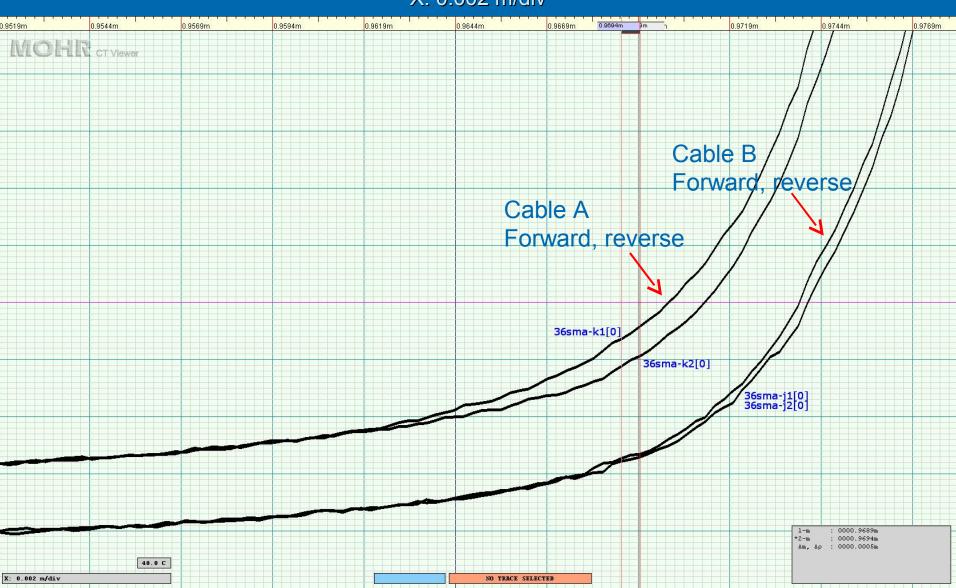


## Comparison of Cable A (color traces) to Cable B (black traces) Cable A shows much greater variation between cable ends X: 0.005 m/div, Y: 5 millirho/div



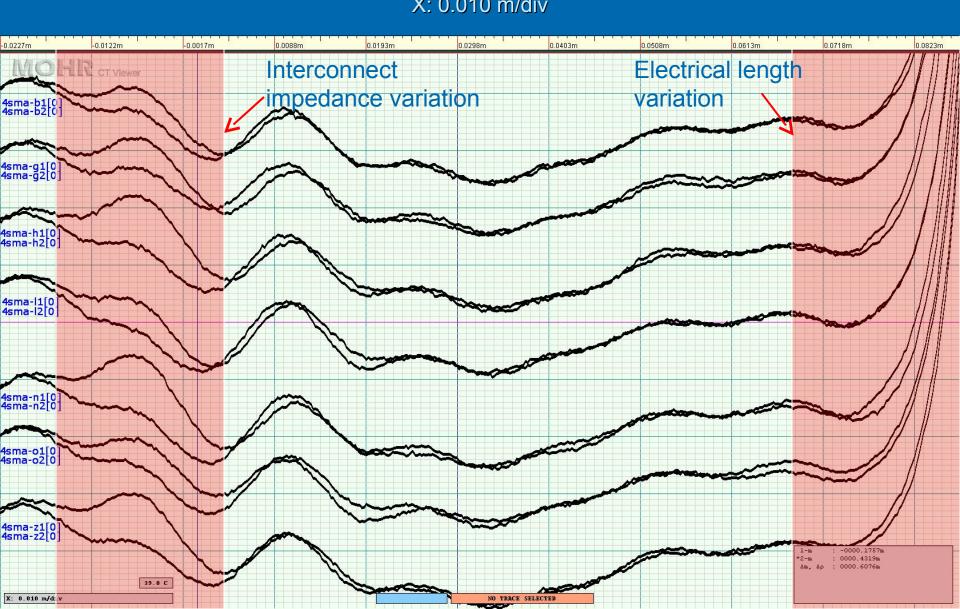


# Cable A vs. Cable B: Electrical length measurements Much greater variation in electrical length of cable A due to interconnect impedance variation X: 0.002 m/div





### Several 50 Ohm SMA cables with interconnect defects All show varying degrees of directional variation X: 0.010 m/div





#### Manufacturing batch of 36 in. 50 Ohm BNC cables: Comparing electrical lengths of precision cables X: 0.004 m/div

