WireXpert® Configuring M12 Adapters Autotest
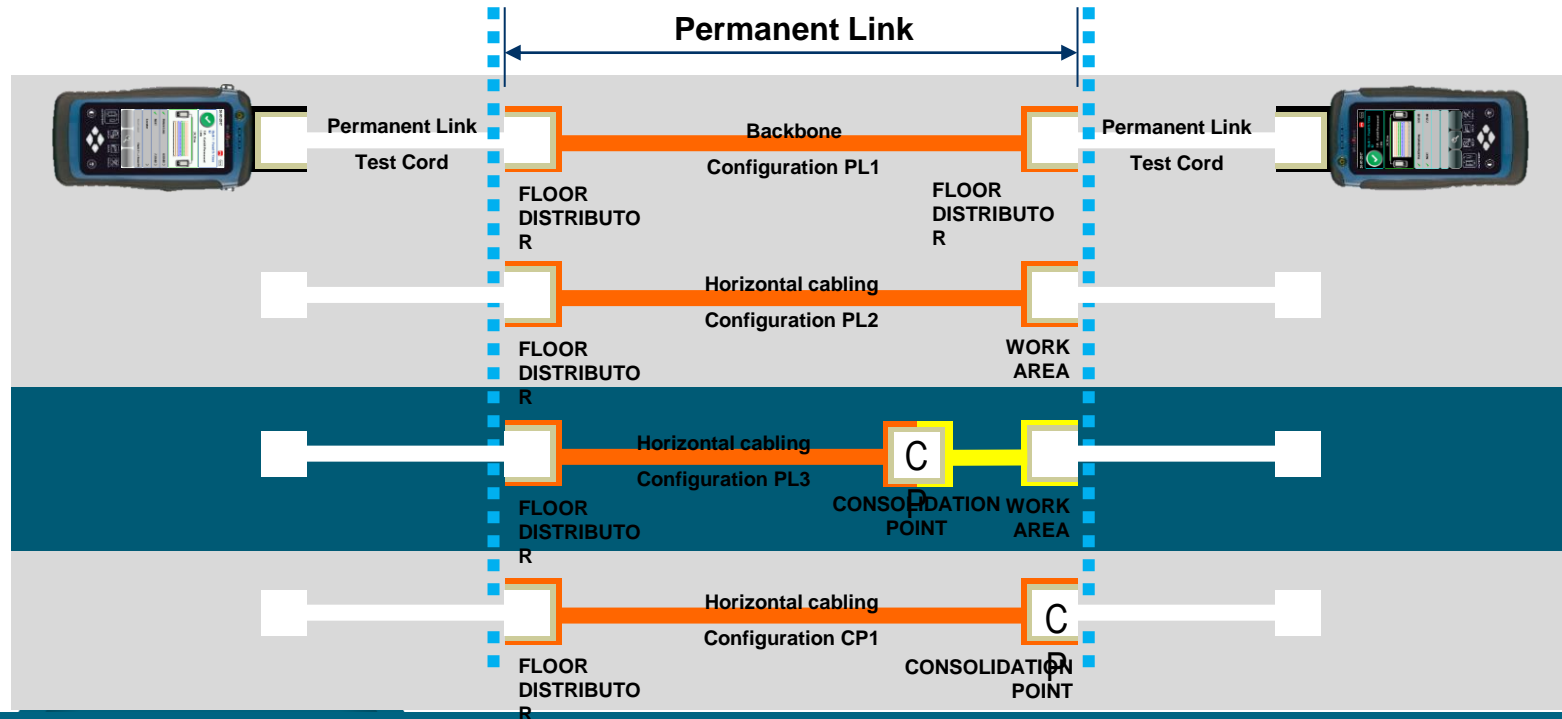
M12 – 4 Wires

M12 - 8 Wires

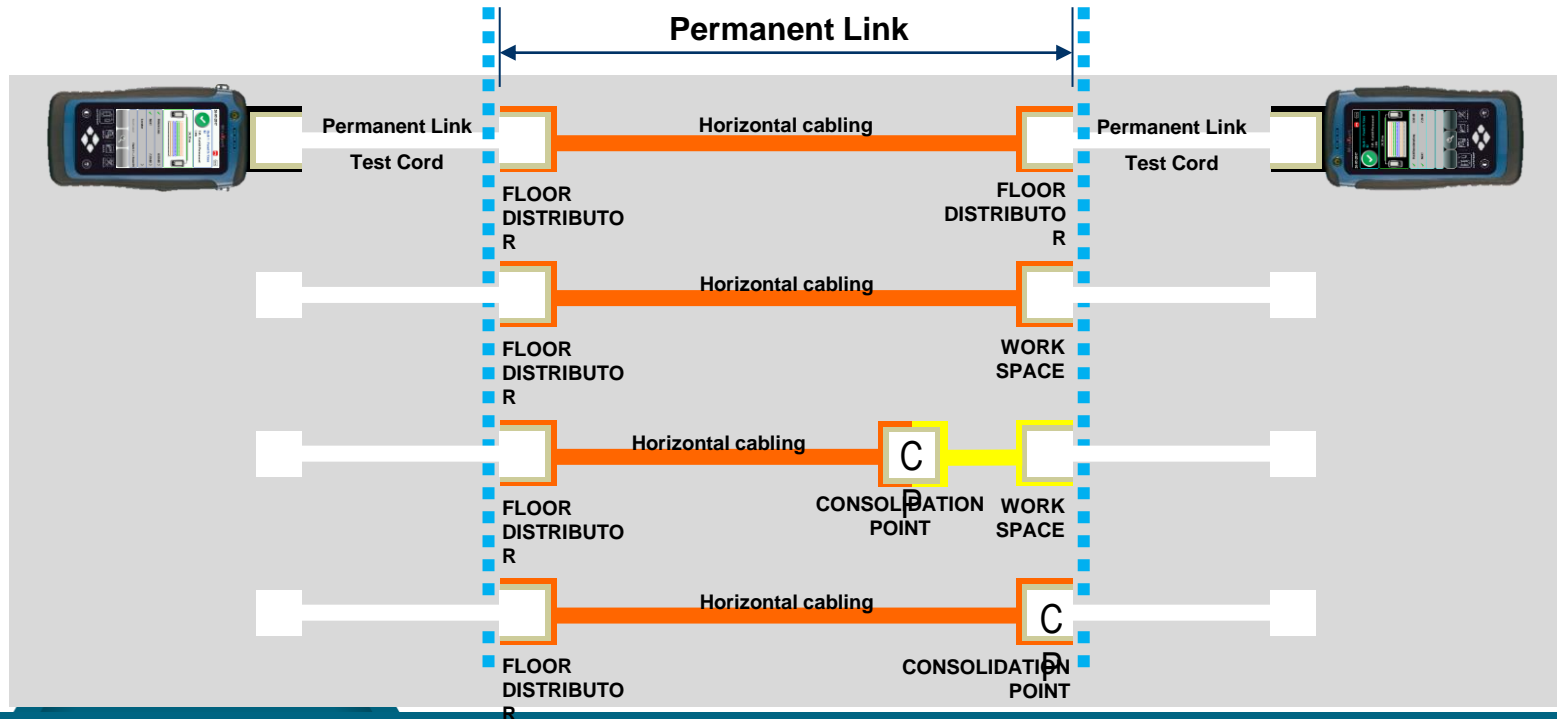# Link Definitions
Permanent Link (based on ISO/IEC 11801)

- Permanently installed link
- Typical acceptance measurements of new installations
- Different limits with or without consolidation point

Link Definitions
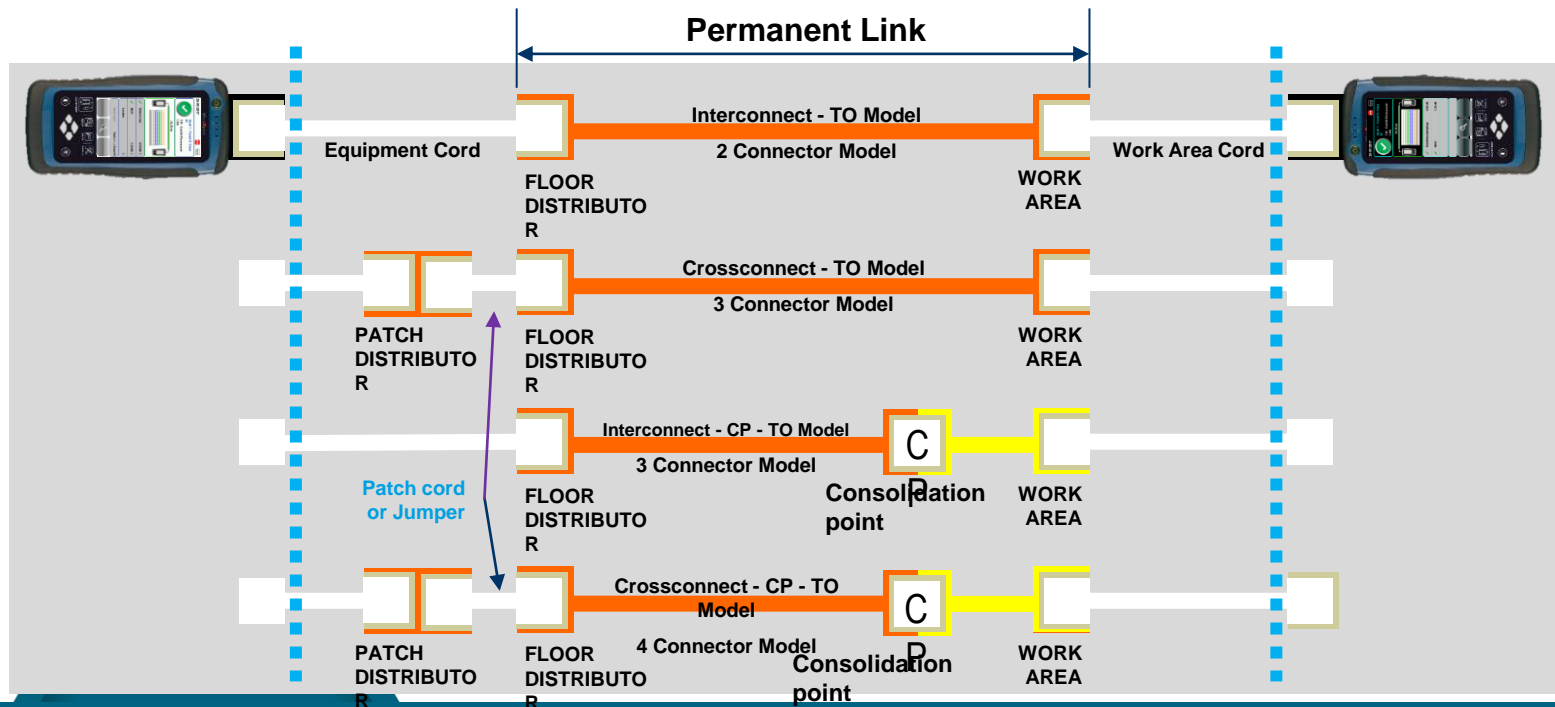## Permanent Link (based on ANSI/TIA 568)

- Permanently installed link
- Typical acceptance measurements of new installations
- Same limits with or without consolidation point

Link Definitions
Channel Link

- Full transmission path including cords
- Typical measurement in case of fault
- Uniform limits for all models

Link Definitions (NEW. Mostly for M12 Connectors)
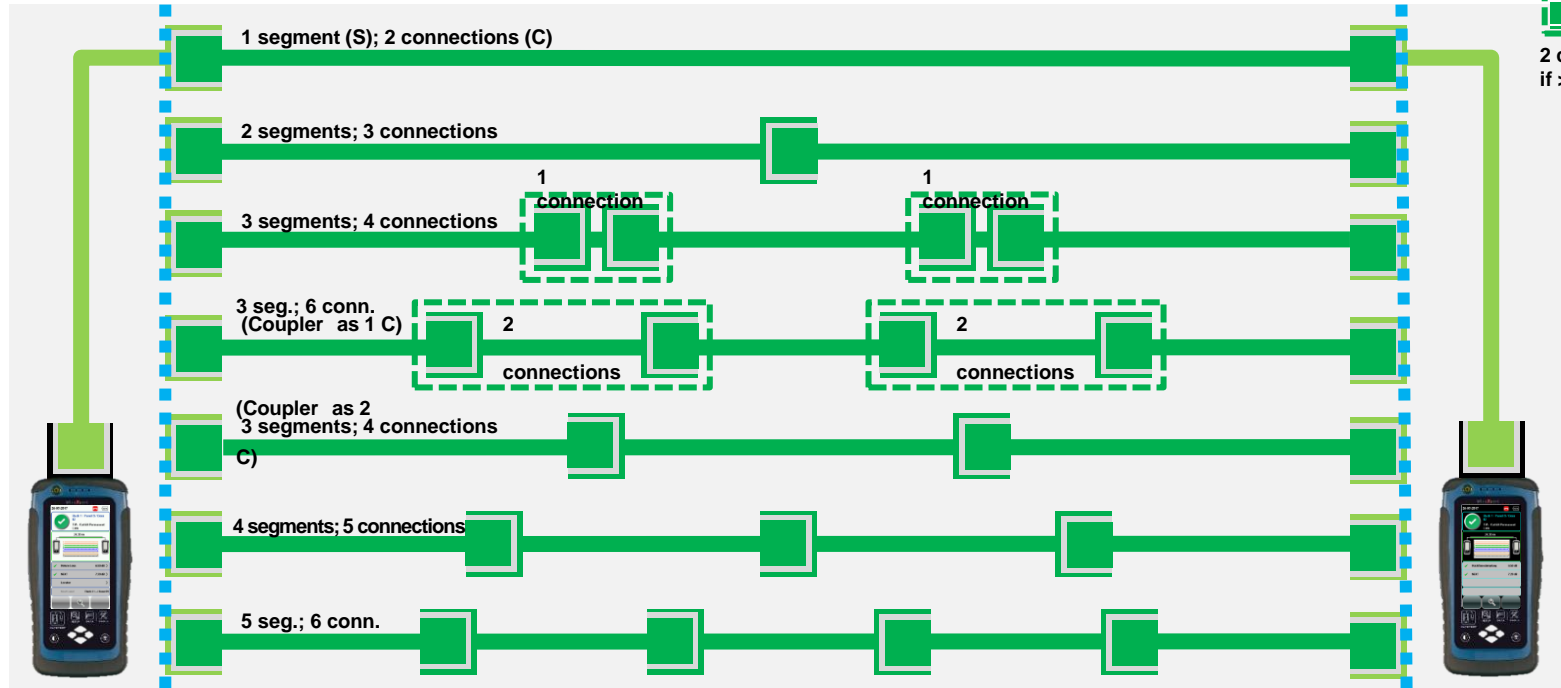## End-to-End-Link (E2E)

- Full transmission path including connector
- Typical in industrial environment
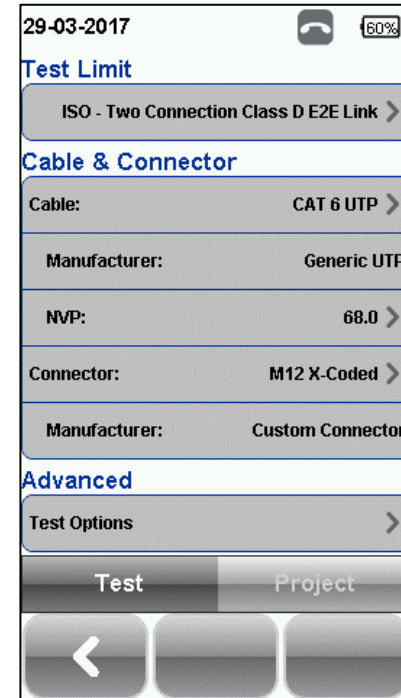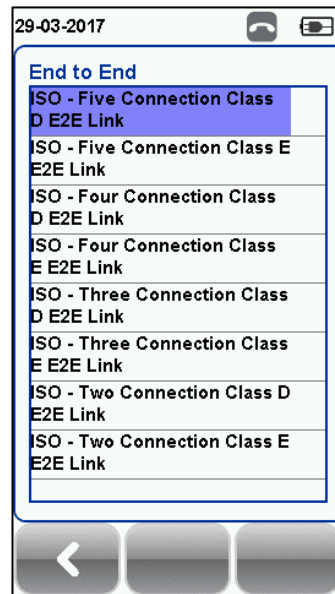- Total link possible from several partial links

1 connection, <= 10cm
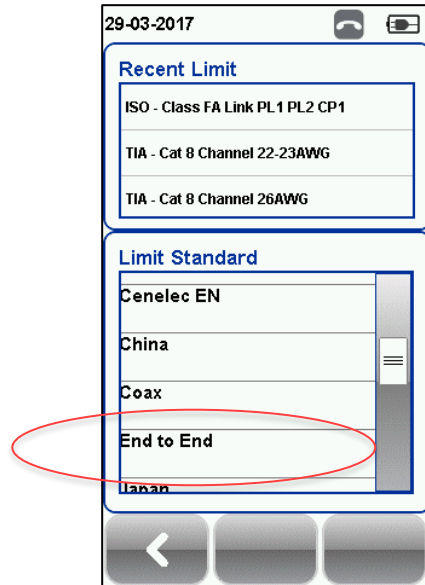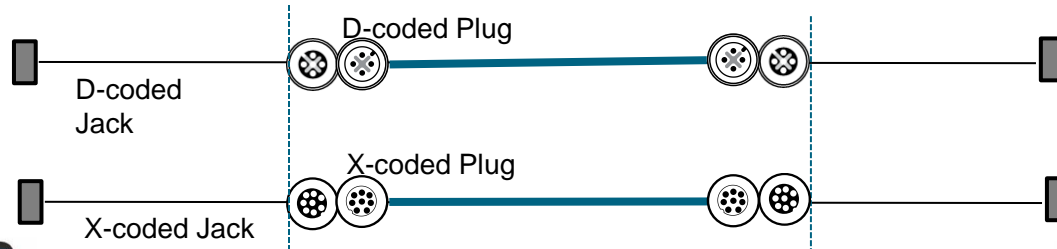
2 connections, if >10 cm

1 segment (S); 2 connections (C)

2 segments; 3 connections

3 segments; 4 connections

1 connection

1 connection

3 seg.; 6 conn. (Coupler as 1 C)

2 connections

2 connections

(Coupler as 2 C)
3 segments; 4 connections

4 segments; 5 connections

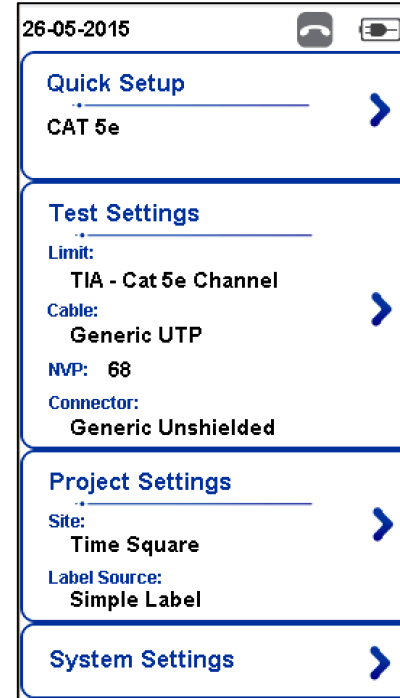5 seg.; 6 conn.

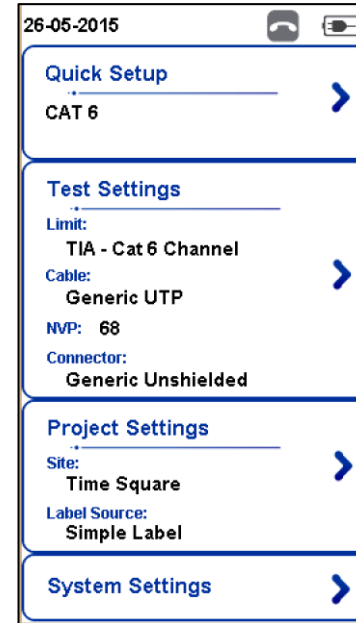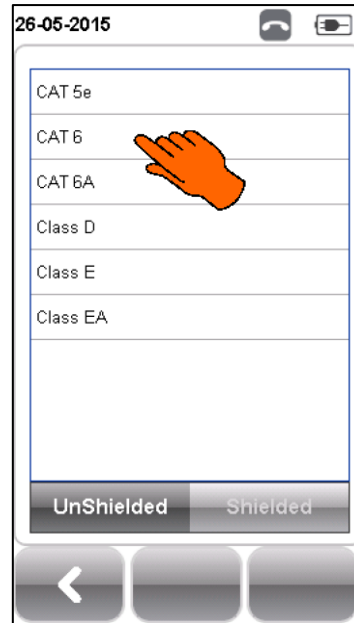# New End to End Limit For M12

M12 CHANNEL TESTING
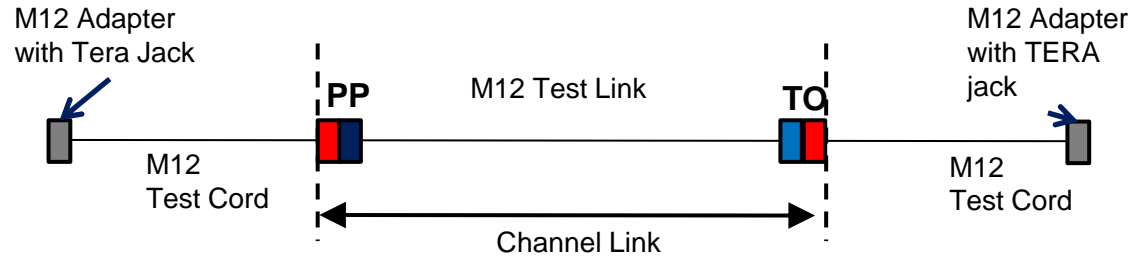
Setting M12 Cabling System Test

- The Test limit is depending on the cable quality. It can be UTP Cat 5e / 6 / 6A
- Need to create Custom Cable and Custom connector
- This session will go thru setting the custom cable and connector

Quick setup to configure Test Limit

- Select the required "CAT" of the system, usually it should be shielded.
- *Alternatively, you can skip Quick Setup and go to Test Settings to select E2E test limit per slide 8.*

IT Networks
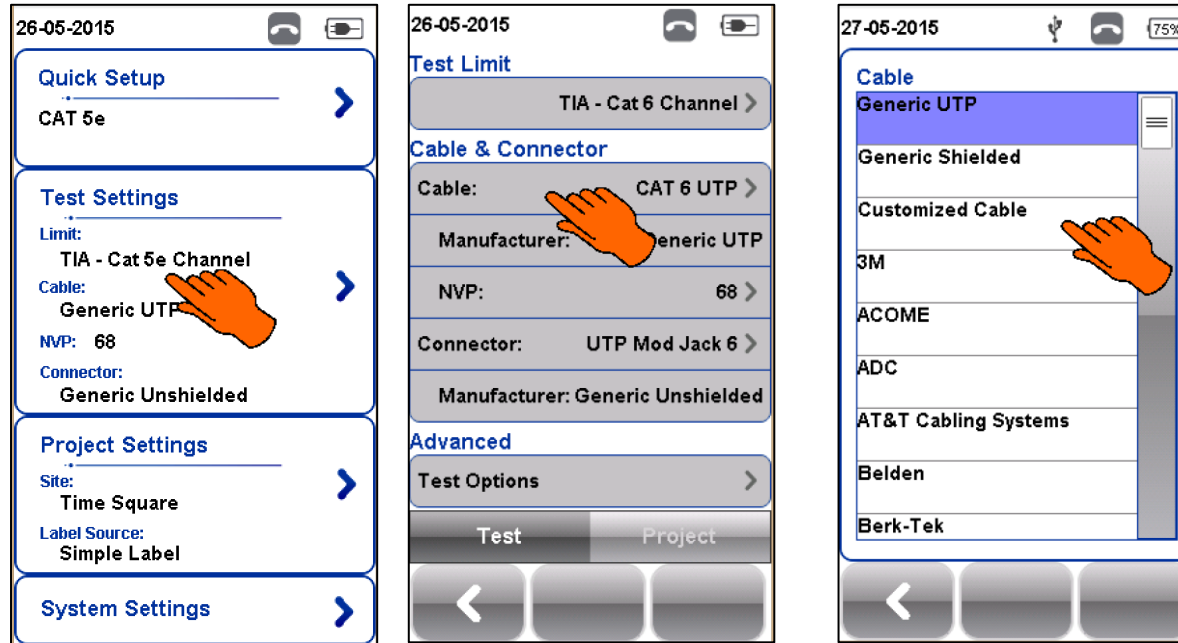
Set Reference for M12 Adapter

- Connect the TERA TO TERA reference cord from LOCAL unit to the REMOTE UNIT

- Set Reference is accomplished by selecting "**Tools**" from the touch lens menu at **LOCAL** tester.
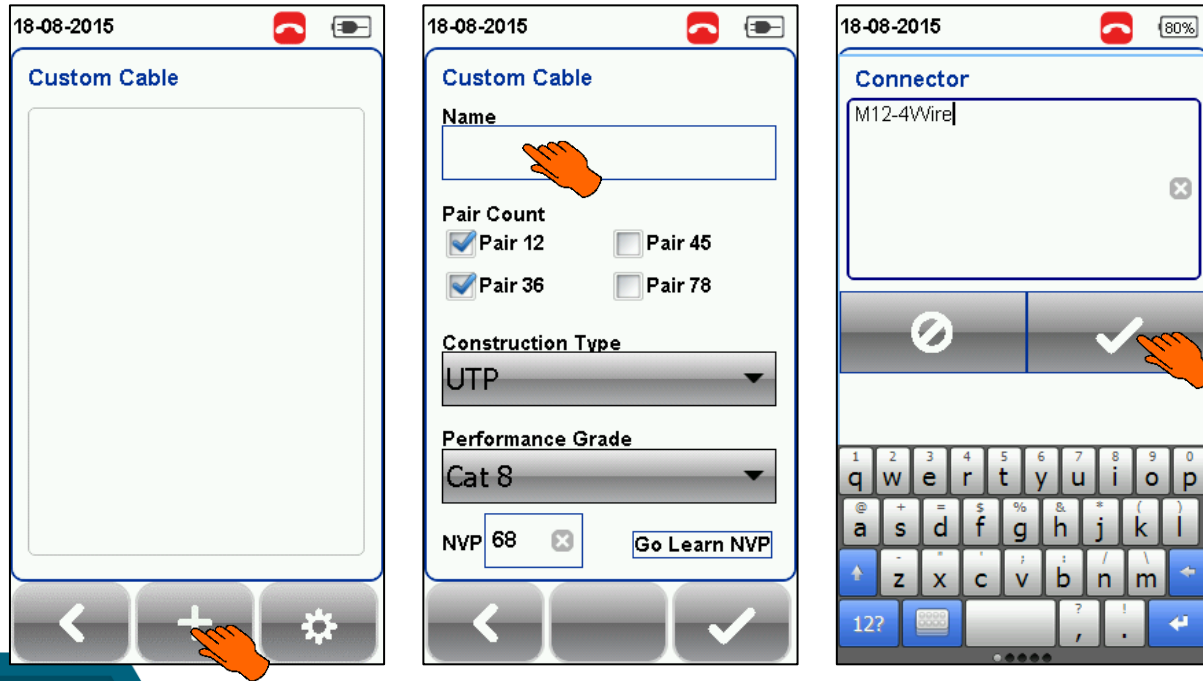
- From the Apps menu, Click on Set Reference.

For *WireXpert*® Local
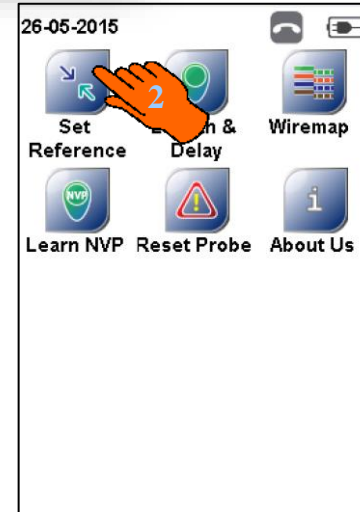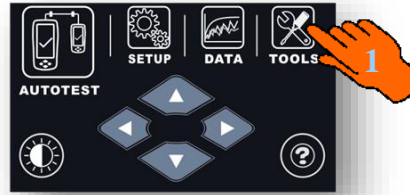
Set Reference for M12
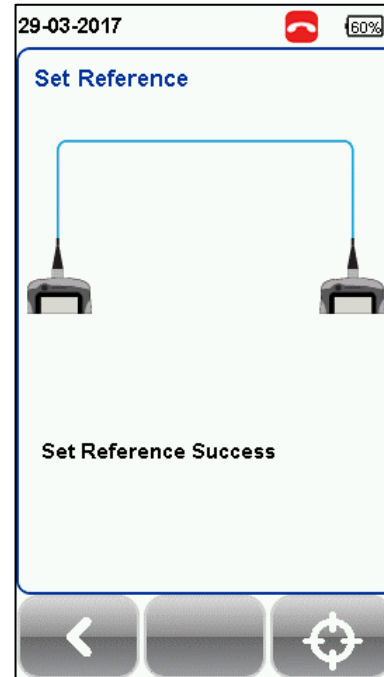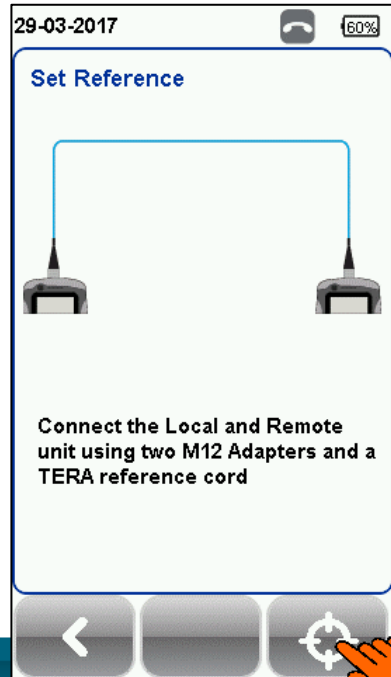
Set Custom Cable M12-4 Wires

- Follow the above steps to set up custom cable for M12 4 wires and 8 wires type

IT Networks

Set Custom cable M12-4 Wires .. cont

- Creating the name for the Cable

Customise cable M12-4 Wire.. Cont 2

optimize!
softing

Indicate the pairing required

Set the Cable Type

Set the Performance Level

Set the correct NVP

IT Networks

- Configure the Cable Spec and select it

Creating M12-8Wire Custom cable

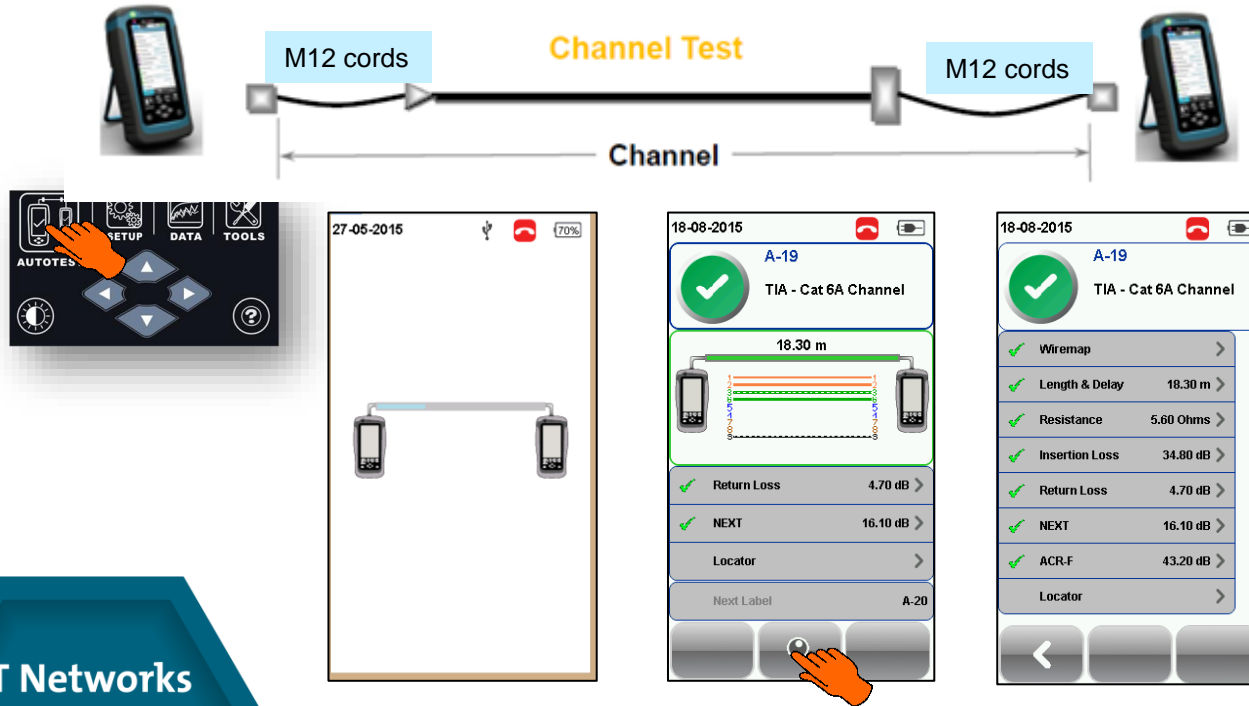# Set Up Custom M12 Connector

Set Up Custom M12 Connector.. Cont

Channel Autotest for M12-4 Wires

- Connect the tester to the link and press the AUTOTEST Button

End of Session