



# 100Gbps Copper Cable Assemblies

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# Testing Setup



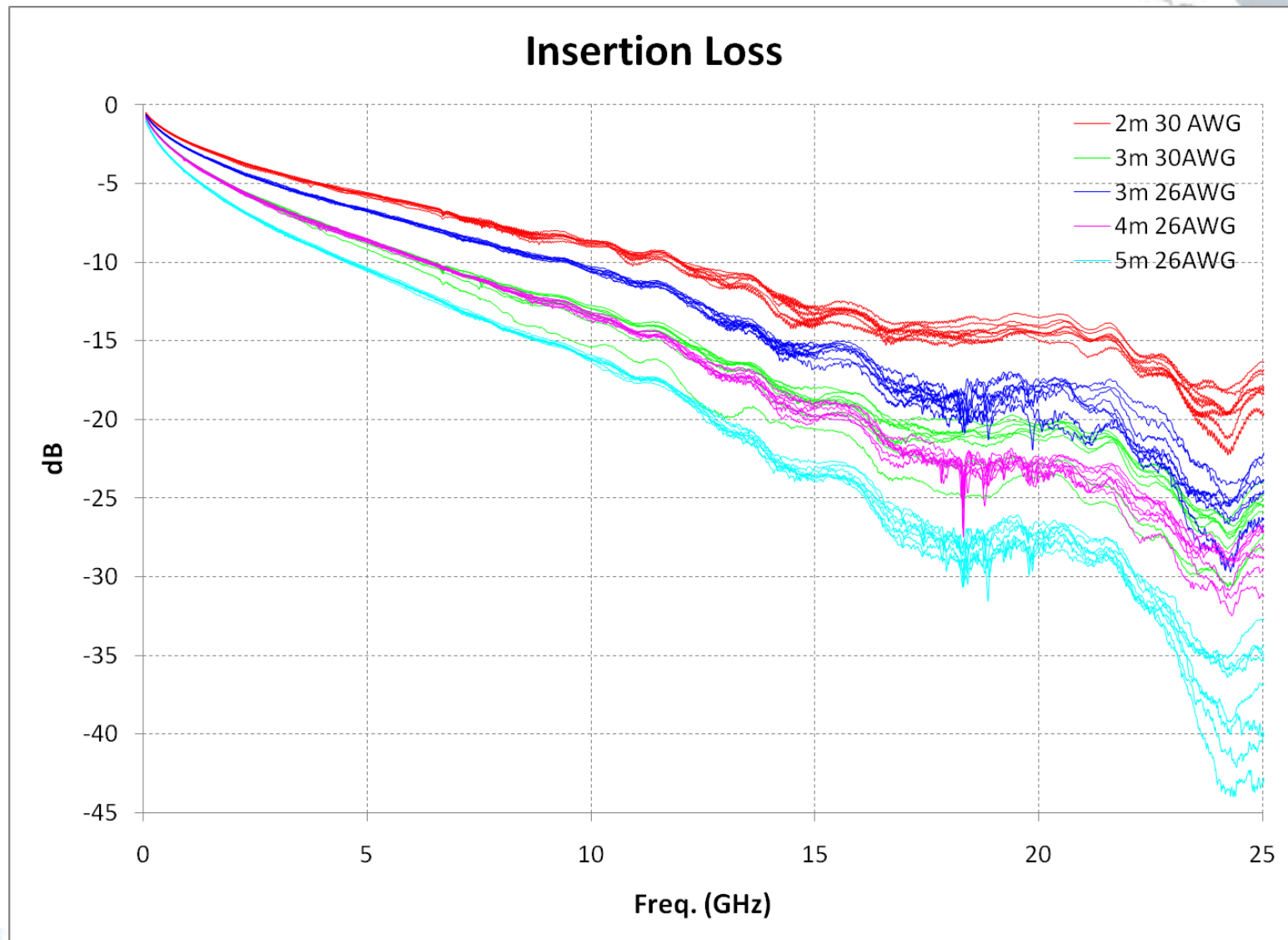
## ■ Device Under Test

- 1 X 2m 30 AWG cable assembly
- 1 X 3m 30 AWG cable assembly
- 1 X 3m 26 AWG cable assembly
- 1 X 4m 26 AWG cable assembly
- 1 X 5m 26 AWG cable assembly

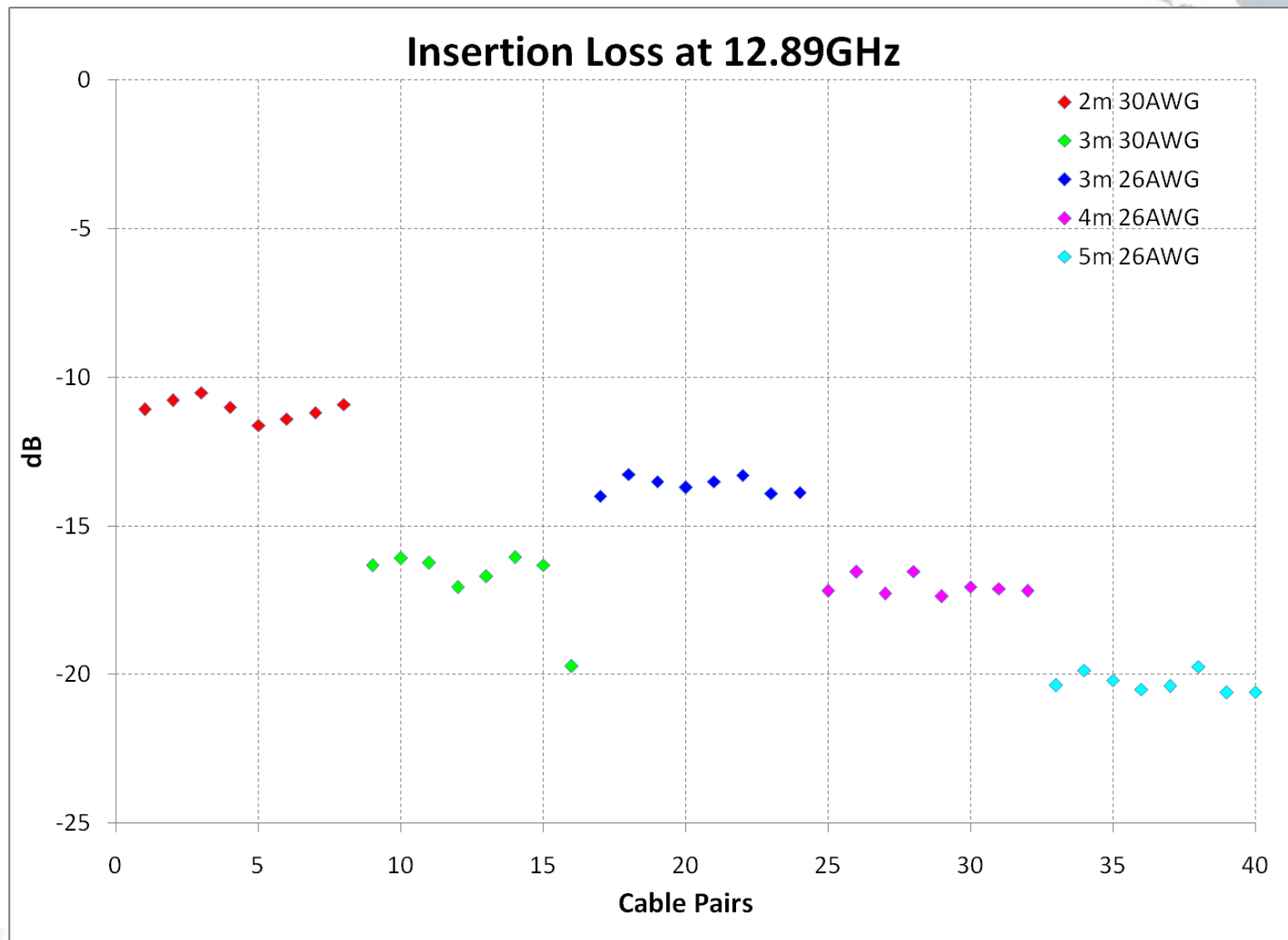
## ■ Test Equipment

- Differential Insertion Loss
  - N5230A Vector Network Analyzer – 4000 pts. 50MHz-40GHz
- Test Boards
  - Molex zQSFP+ Connector Test boards – Nelco 4000-13 SI
  - 75 mm PCB trace (37.5mm per end) was de-embedded
  - De-embedded data includes 2 paddle cards and 2 SMT connectors
- Models provided in public channel data page include PCB trace. Models do not de-embed trace.

# IL Data



# Loss values at 12.89GHz



# Average IL values at 12.89GHz



Cable	Average IL (dB)
2m 30AWG	-11.07
3m 30AWG	-16.81
3m 26AWG	-13.64
4m 26AWG	-17.04
5m 26AWG	-20.28

# Questions



# Special Thanks



- Ebrahim Abunasrah – Molex
- Charles Moore – Avago

The background of the slide features an abstract design on the left with blue and white geometric shapes and light rays. On the right, there is a faint, light gray silhouette of a world map. The Molex logo is positioned in the upper right area, with the tagline below it.

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**Thank You**