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# **Reduced Twisted Pair Gigabit Ethernet SG Test Fixtures**

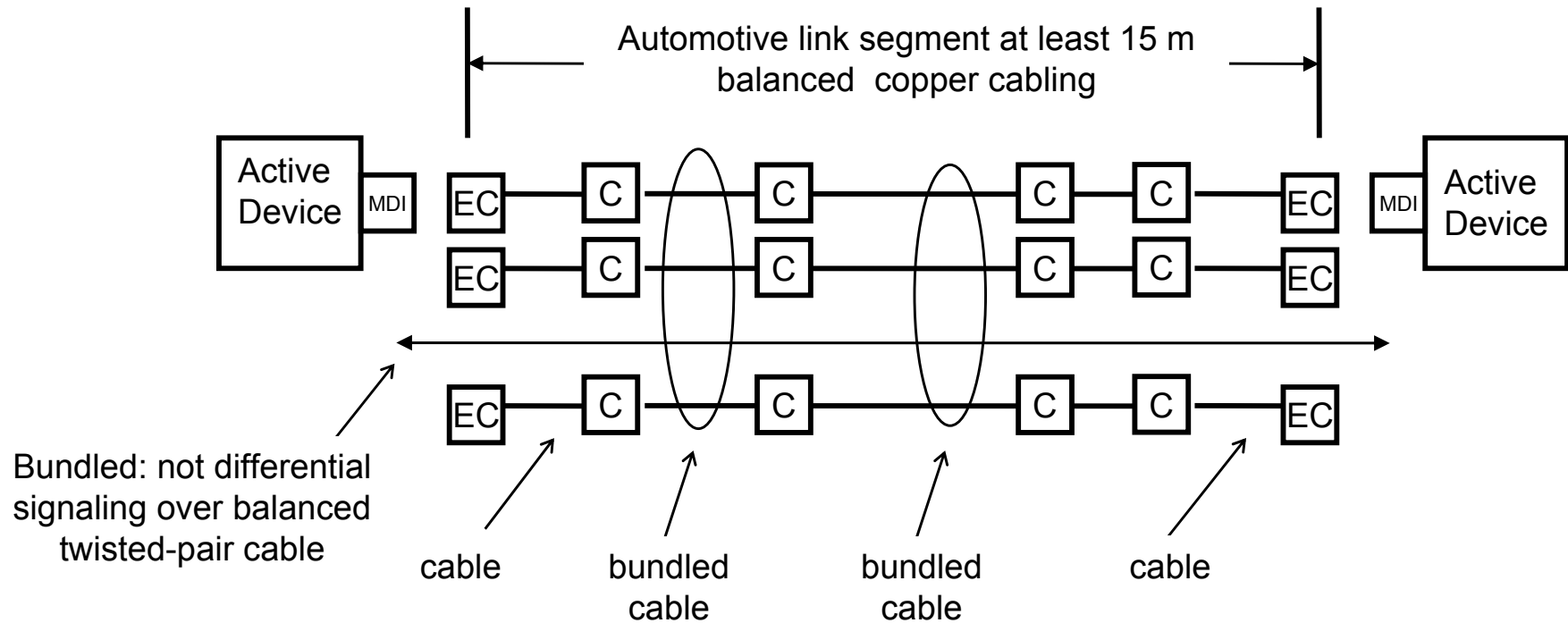
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# Discussion

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- **Test fixtures**
  - **Link segment test fixture**
  - **MDI receptacle test fixture**

# Automotive link segment



The IEEE 802.3 nomenclature is bracketed to identify relationship to the IEEE 802.3 definitions.

Length objective [EC] to [EC] at least 15 m  
Number of inline connectors [C] = 4



= inline connector



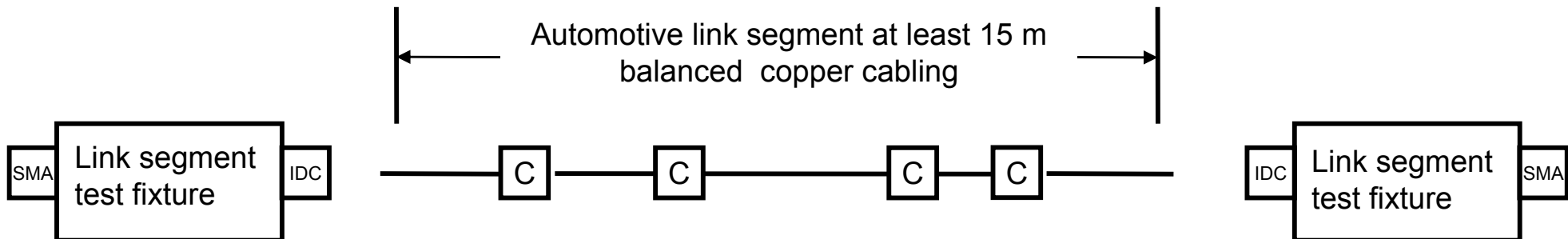
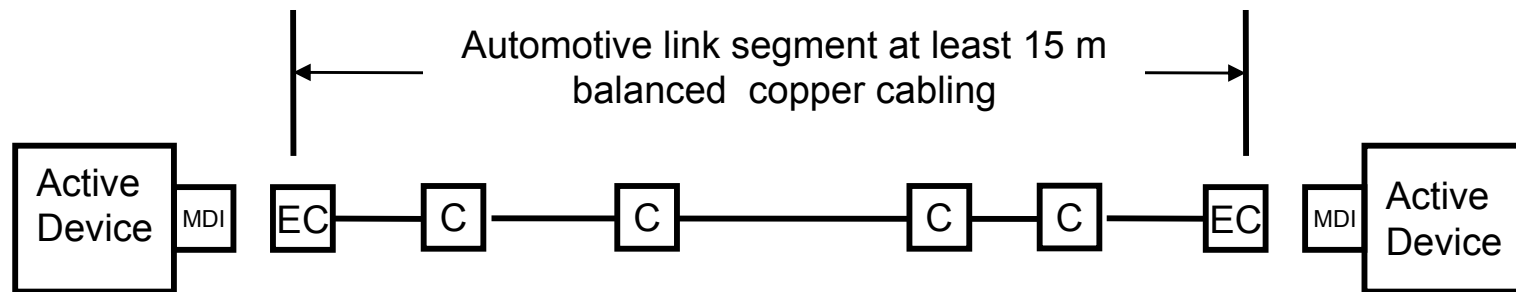
= connection to equipment



= Active electronics connector  
[Medium dependent interface (MDI)]

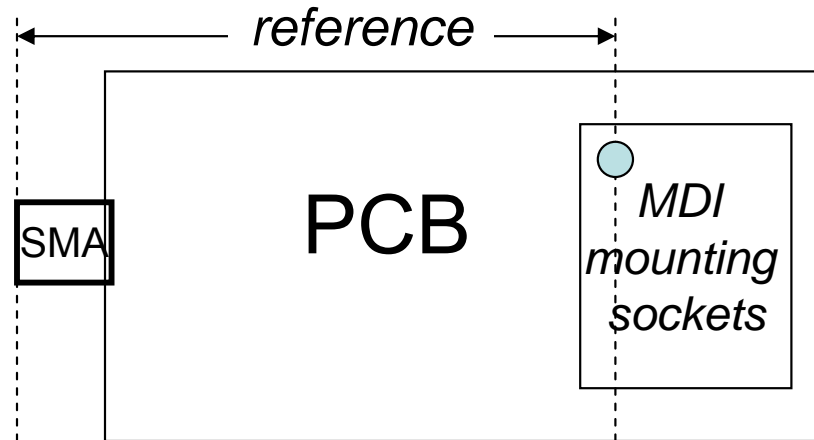
# Link segment test fixture

- Common reference for link segment testing (SMA-IDC)
- S-parameter specifications (IL, RL, balance....TBD)



# MDI receptacle test fixture

- Common reference for MDI receptacle testing (SMA-)
- S-parameter specifications (IL, RL, balance....TBD)
  - PCB trace



# Summary

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- **Test fixture discussion material presented**
  - **Link segment test fixture**
  - **MDI receptacle test fixture**