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**Copper “Cu” Sub-Task Force  
Closing Report  
Quebec, Quebec CA - May 2009**

**Cu Sub-Task Force Chair  
Chris Di Minico**

**Editor(s) – Ryan Latchman  
Arthur Marris**

# Cu Sub-Task Force

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- **Cu Sub-Task Force Chair and Editor for 40GBASE-CR4 and 100GBASE-CR10, clause 85**
  - **Chris DiMinico**
- **Editor, 40 Gb/s (XLAUI) and 100 Gb/s (CAUI) interfaces, Annex 83A, 83B**
  - **Ryan Latchman**
- **Editor, Clauses 69, 73, 74, 84, Annexes 69A, 69B**
  - **Arthur Marris**

# Ballot comment resolution

- Resolved all T/TR/ER's

Clause/Annexes	Editor	TR	T	ER	E	Total
85	Chris DiMinico	43	53	48	50	138
69,69A,69B,73,84	Aurthur Marris	24	15	18	7	64
83A,84A	Ryan Latchman	33	53	17	14	117
						319

# Key items closed

## Test points and transfer functions; normative/informative

- Normative: Cable assembly – [TP1 and TP4], Transmitter [TP2], Receiver [TP3]
- Informative: Channel – [TP0 to TP5], Tx and Rx PCB boards [TP0 to TP1] and [TP4 to TP5]
- TP2 testing – (1) TWDP, (2) Transfer Tx parameters to TP2, extract IL
- TP3 testing [interference tolerance test]

## Test Fixtures

- TP2, TP3 – Transmit and receiver
- TP2 and TP4 – cable assembly

## CR10 connector

- contacts lane assignments

## Frequency range (min): cable assembly and channel

## Cable Assembly

- testing and specification refinements

## Channel

- specification refinements - upper bound for crosstalk of short channels

## Tx and Rx PCB

- minimum and maximum PCB loss and testing

# Key items closed

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## Annex 83A:

- Proposed updates with respect to values for:
  - compliance point loss budget
  - de-emphasis range
  - FR4 receiver stress amount

## Annex 83B:

- Proposed updates with respect to values for
  - Compliance point loss budget
  - FR4 receiver stress amount
  - De-emphasis range
  - Crosstalk specification