Cl **120F** *SC* **120F.3.2.1** *P* **211** *L* **40** # 85

Brown, Matt — Huawei

Comment Type **T** *Comment Status* **D** *ERL value (bucket6)*

The receiver ERL should be defined and measured in the same way as for the transmitter.

SuggestedRemedy

Assuming that the receiver test fixture is aligned with the transmitter test fixture, specify the receiver ERL using the same specification as the transmitter ERL using dERL in 120F.3.1.1. In Table 120F-3, replace the the parameter name and set the specification to 0 dB.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #67.

[Editor's note: CC: 120F, 163]

[Editor's note (to be removed when closing this comment): Added to bucket #6. Closed comment #67 addresses the method using dERL and the value.]

Cl **120G** *SC* **120G.3.1.1** *P* **226** *L* **41** # 242

Dawe, Piers — Nvidia

Comment Type **T** *Comment Status* **D** *wording (bucket6)*

per lane

SuggestedRemedy

for each lane

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

In 120F and 120G, change instances of "per lane" to "for each lane", where appropriate.

[Editor's note (to be removed when this comment is closed): Added to bucket #6. This comment is though to be non-controversial.]

Cl **120G** *SC* **120G.3.4.1.1** *P* **237** *L* **14** # 254

Dawe, Piers — Nvidia

Comment Type **T** *Comment Status* **D** *TP4a criteria (bucket6)*

"This CTLE setting has to be greater than or equal to TBD dB": with a compound CTLE, it's not as simple as that.
The limits should be close to that for TP4 FE in Table 120G-14, but might not be identical.

SuggestedRemedy

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

[Editor's note: Addresses incomplete specification.]

Resolve using the response to comment #109.

[Editor's note (to be removed when closing this comment): Added to bucket #6. Closed comment #109 addresses the wording and value in the referenced sentence.]

Cl **162** *SC* **162.11.3** *P* **157** *L* **40** # 159

Dudek, Mike — Marvell.

Comment Type **E** *Comment Status* **D** *wording (bucket6)*

mixture of singular "ERL" with plural "are"

SuggestedRemedy

Change "are" to "is"

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change:
"ERL of the cable assembly at TP1 and at TP4 are"
To:
"Values of ERL of the cable assembly at TP1 and at TP4 are"

Change:
"Cable assembly ERL at TP1 and at TP4 shall"
To:
"Values of cable assembly ERL at TP1 and at TP4 shall"

[Editor's note (to be removed when this comment is closed): Added to bucket #6. This comment is assumed to be non-controversial.]

Cl **162B** *SC* **162B.1.3.2** *P* **256** *L* **41** # 123

Kocsis, Sam
Amphenol

Comment Type **TR** *Comment Status* **D** *MTF RL (bucket6)*

Add definition of ERL for MTF

SuggestedRemedy

Copy Table120G-4, change Tfx to "0", use as reference for MTF ERL

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

The response to closed comment #122 adds a complete ERL specification.

Resolve using the response to comment #122.

[Editor's note (to be removed when closing this comment): Added to bucket #6.]

Cl **162B** *SC* **162B.1.3.6** *P* **260** *L* **29** # 180

Haser, Alex
Molex

Comment Type **TR** *Comment Status* **D** *MTF XTALK (bucket6)*

Start and stop frequencies are not defined for ICN calculation. This section points to (should point to) 110B.1.3.6, which specifies 50 MHz to 19 GHz; this range is insufficient for this data rate

SuggestedRemedy

Somehow specifiy ICN calculations should be done 50 MHz to 40 GHz with a 10 MHz step size, either by adding text or adding values to Table 162B-1

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Slide 24 of the following presentation provides updated wording to address this comment:
https://www.ieee802.org/3/ck/public/20_07/diminico_3ck_02e_0720.pdf

Implement with editorial license the proposal on slide 24 of diminico_3ck_02e_0720.

[Editor's note: This comment was added to bucket #6. It is assumed that there is sufficient consensus around the proposed response to close it without discussion.]

Cl **162B** *SC* **162B.1.3.6** *P* **260** *L* **32** # 117

Kocsis, Sam
Amphenol

Comment Type **TR** *Comment Status* **D** *MTF XTALK (bucket6)*

No definition of start and stop frequencies

SuggestedRemedy

Add defintion for fstart=50MHz, fstop=40GHz

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

[Editor's note: Addresses incomplete specification.]

Resolve using response to comment #180.

[Editor's note: This comment was added to bucket #6. It is assumed that there is sufficient consensus around the proposed response to close it without discussion.]

Cl **162B** *SC* **162B.1.3.6** *P* **260** *L* **52** # 118

Kocsis, Sam
Amphenol

Comment Type **ER** *Comment Status* **D** *MTF XTALK (bucket6)*

Assumed methodology reference is 92.11.3.6.3?

SuggestedRemedy

Add explicit reference, since specific parameters will be change for 3ck

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

The response to comment #180 addresses the concern in this comment.

Resolve using the response to comment #180.

[Editor's note: This comment was added to bucket #6. It is assumed that there is sufficient consensus around the proposed response to close it without discussion.]

Cl **162B** *SC* **162B.1.3.6** *P* **260** *L* **54** # 181

Haser, Alex — Molex

Comment Type **TR** *Comment Status* **D** *MTF XTALK (bucket6)*

Start and stop frequencies are not defined for ICN calculations

SuggestedRemedy

Add "Integrated crosstalk RMS noise voltages are measured over N uniformly-spaced frequencies f_n spanning the frequency range 50 MHz to 40 GHz with a minimum spacing of 10 MHz." to the end of this section or add values to Table 162B1-3

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #180.

[Editor's note: This comment was added to bucket #6. It is assumed that there is sufficient consensus around the proposed response to close it without discussion.]

Cl **162B** *SC* **162B.1.3.6** *P* **261** *L* **1** # 119

Kocsis, Sam — Amphenol

Comment Type **TR** *Comment Status* **D** *MTF XTALK (bucket6)*

No definition of start and stop frequencies

SuggestedRemedy

Add defintion for fstart=50MHz, fstop=40GHz

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #180.

[Editor's note: This comment was added to bucket #6. It is assumed that there is sufficient consensus around the proposed response to close it without discussion.]

Cl **163** *SC* **163.9.2** *P* **176** *L* **43** # 197

Wu, Mau-Lin — MediaTek

Comment Type **T** *Comment Status* **D** *TX CM AC noise (bucket6)*

By adopting "TP0v" variable test fixture methodology, the value of "AC common-mode RMS voltage (max)" will be also strongly dependent on IL of TP0v. We need to fix this.

SuggestedRemedy

We shall define "Difference between measured and reference AC common-mode RMS voltage (max)" here. We shall define the AC common-mode RMS voltage (max) at TP0 and adopt one scaling factor which is related to IL of TP0v to derive the reference AC common-mode RMS voltage (max) at TP0v. Define the difference among measured one and reference one. Some information had been provided in wu_3ck_adhoc_01_090920.pdf. Plan to provide one contribution, wu_3ck_01_1120.pdf, for

Proposed Response *Response Status* **W**

PROPOSED REJECT.

The following presentation was reviewed by the task force:
https://www.ieee802.org/3/ck/public/20_10/wu_3ck_01_1020.pdf

The response to closed comment #205 against Annex 163A indicates that there is no consensus to adopt the AC CM noise specification based on the difference between measured and reference values similarly proposed in this comment.

There is no consensus to make the proposed changes.

[Editor's note: CC: 120F, 163]

[Editor's note (to be removed when this comment is closed): Added to bucket #6. This comment may be closed as a consequence of closed comment #205.]

Cl **163** *SC* **163.9.3** *P* **180** *L* **26** # 8

Mellitz, Richard — Samtec

Comment Type **TR** *Comment Status* **D** *ERL value (bucket6)*

There is no reason why the receive ERL specification should be different from the transmitter ones.

SuggestedRemedy

Point to the transmitter specification for DERL

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response to comment #67.

[Editor's note (to be removed when closing this comment): Added to bucket #6. Comment #67 addresses the method using dERL and the value.]