Proposal addressing comments for 3m NO FEC

IEEE 802.3by 25Gb/s Ethernet
September 2015 version r05
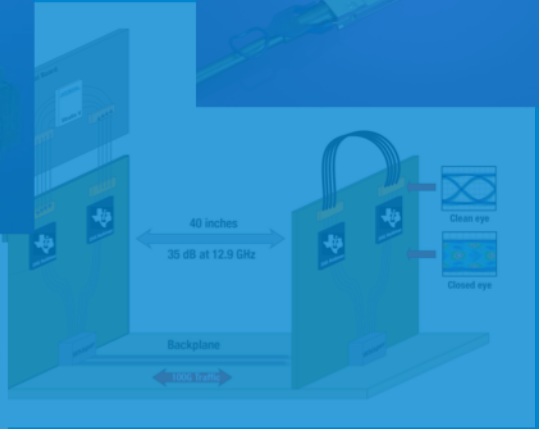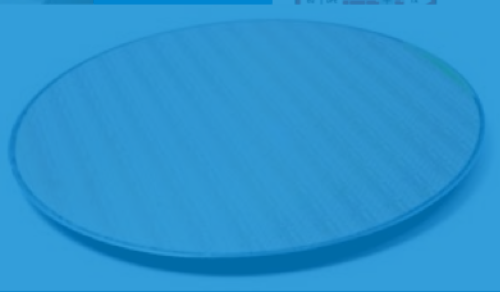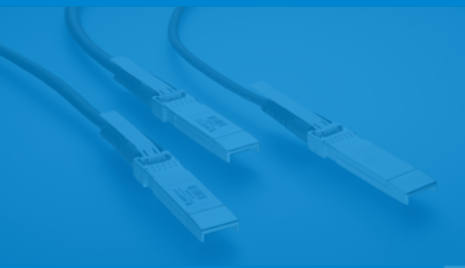Joel Goergen – Cisco Systems

Motion to Address 3m no FEC Comments

Move to adopt the following changes to address 3m no FEC comments against 8023byD2.0, with editorial license.

Mike Dudek / Joel Goergen

-Table 110-7 Change max insertion loss from 12.98dB to 15.50dB

-Table 110-7 Change test2 fitted insertion loss coefficients (a1,a2,a4) from [2.91,0.39,0.027] to [3.35,0.45,0.031]

-Table 110-7 Change test2 approximate fitted loss at 12.89GHz from 19.96dB to 22.98dB

-Table 110-7 Change COM max for test2 from 3.0dB to 2.0dB

-Table 110-10 Add Row COM min passing margin 3.0dB for all columns CA-N, CA-S, and CA-L and indicate – "For CA-N cables with attenuation greater than 12dB this max COM value is changed to 2.0dB."

-Table 110-10 Add Row TX_SNR CA-N = 28.4dB, CA-S = 27.0dB, and CA-L = 27.0dB

-Table 110-10 Add Row Continuous time filter, DC Gain (g_DC) (min value dB, max value dB, step size) where CA-N [-16,0,1], CA-S [-12,0,1] CA-L [-12,0,1]

-Subclause 110-10 page 152 line 32: change 2m to 3m

-Table 110C-1 change 2m to 3m all places

-Sublause 110C.1 page 230 line 26: change 2m to 3m

-Table 110A-1 for CA-N change Chmax from 25.5dB to 28.02dB

-Table 110A-1 for CA-N change Camax from 12.98dB to 15.50dB

Reference Slides

Proposal to Change CA-N to support 3m no FEC

CA-N
CR/CR-S PMD

110-9 Cable Loss
15.5dB

110-7 test2 FILC
[3.35,0.45,0.031]
Test2
FL@12.89=22.98

110-7
Test1 COM 3.0dB
Test2 COM 2.0dB

110-10 add row
CA-N / CA-S / CA-L COM 3.0dB
Foot note CA-N [>12.00dB] COM 2.0dB

Table 110-10 add row
CA-N TX_SNR 28.4dB
CA-S / CA-L 27.0dB

Table 110-10 add row
CA-N CTLE 16.0dB
CA-S / CA-L 12.0dB

110 line c
110C-1
3m maxL

110-A1 Cable Loss
IL Camax 15.5dB
IL Chmax 28.02dB

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-Table 110-9 Change max insertion loss from 12.98dB to 15.50dB

-Table 110-7 Change test2 fitted insertion loss coefficients (a1,a2,a4) from [2.91,0.39,0.027] to [3.28,0.44,0.030]

-Table 110-7 Change test2 approximate fitted loss at 12.89GHz from 19.96dB to 22.48dB

-Table 110-7 Change COM max for test2 from 3.0dB to 2.2dB

-Table 110-10 Add Row COM min passing margin 3.0dB for all columns CA-N, CA-S, and CA-L and indicate – "For CA-N cables with attenuation greater than 12dB this max COM value is changed to 2.2dB."

-Table 110-10 Add Row TX_SNR CA-N = 28.4dB, CA-S = 27.0dB, and CA-L = 27.0dB

-Table 110-10 Add Row Continuous time filter, DC Gain (g_DC) (min value dB, max value dB, step size) where CA-N [-16,0,1], CA-S [-12,0,1] CA-L [-12,0,1]

-Subclause 110-10 page 152 line 32: change 2m to 2.75m

-Table 110C-1 change 2m to 2.75m all places

-Sublause 110C.1 page 230 line 26: change 2m to 2.75m

-Table 110A-1 for CA-N change Chmax from 25.5dB to 28.02dB

-Table 110A-1 for CA-N change Camax from 12.98dB to 15.50dB

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