

400GbE PMD FEC Requirements

IEEE P802.3bs 400 Gb/s Ethernet Task Force

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FEC Requirements Summary

- The following table summarizes the current PMD baseline proposals and the stated BER/FEC requirements from those baselines

Distance	Name	Presentation	BERin	FEC Need
100m	SR16	king_3bs_02a_1114.pdf	5×10^{-5}	KR4
500m	PSM4 (4 fibers x 2λ X 50G NRZ)	cole_3bs_03a_1114.pdf	2×10^{-4}	KP4
500m	PSM4 (4 fibers x 2λ X 50G PAM4)	cole_3bs_04a_1114.pdf	2×10^{-4}	KP4
500m	PSM4 (4 fibers x 1λ X100G PAM-4)	welch_3bs_01_0115.pdf	2.1×10^{-5}	KR4
500m	PSM4 (4 fibers x 1λ X100G DMT)	lewis_3bs_01a_1114.pdf	3.3×10^{-3}	> KP4
2km	8λ x 50G NRZ	cole_3bs_01_0115.pdf	2×10^{-4}	KP4
2km	8λ x 50G NRZ	kojima_3bs_01_0115.pdf	2×10^{-4}	KP4
2km	8λ x 50G PAM4	cole_3bs_02_0115.pdf	2×10^{-4}	KP4
2km	4λ x 100G PAM4	lewis_3bs_01_0115.pdf	2.1×10^{-4}	KP4
2km	4λ x 100G DMT	lewis_3bs_01a_1114.pdf	3.3×10^{-3}	> KP4
10km	8λ x 50G NRZ	cole_3bs_01_0115.pdf	2×10^{-4}	KP4
10km	8λ x 50G NRZ	kojima_3bs_01_0115.pdf	2×10^{-4}	KP4
10km	8λ x 50G PAM4	cole_3bs_02_0115.pdf	2×10^{-4}	KP4
10km	4λ x 100G DMT	takahara_3bs_01_1114.pdf	3.3×10^{-3}	> KP4