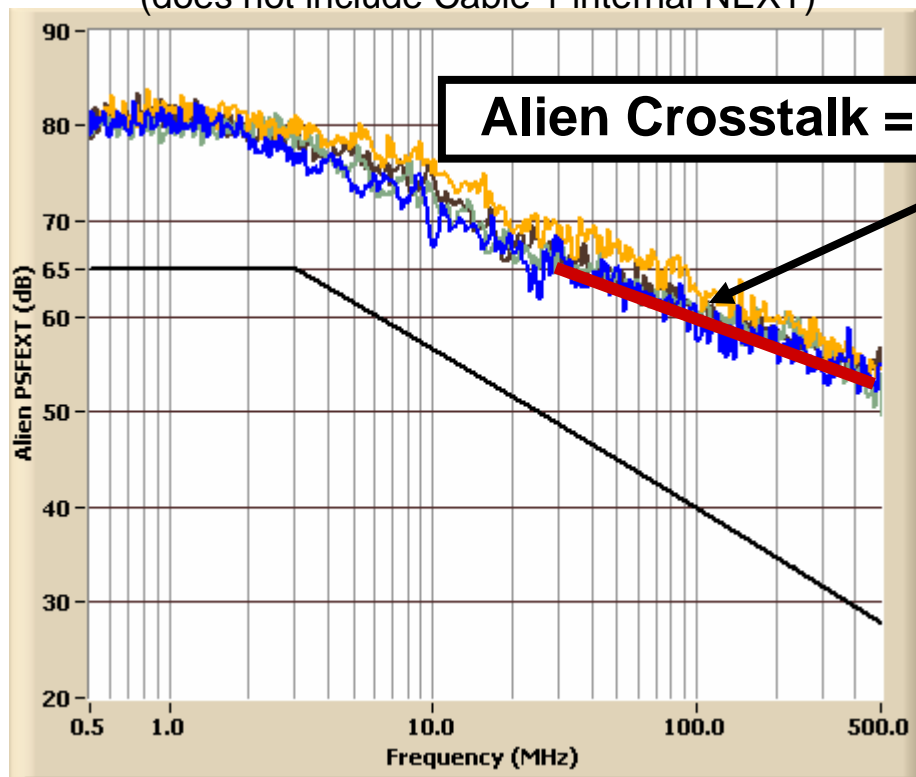


Experimental Cat 6 Cable Developed with Improved Alien NEXT

Alien PSNEXT into Cable 1 from Cables 2-7
(does not include Cable 1 internal NEXT)



Alien Crosstalk = - 60 + 10*log(freq/100)

start f	stop f	min margin	min freq	pair	pair margin	pair freq
10	500	11.73	10.34	4	11.73	10.34
				1	17.05	20.11
				2	13.48	16.30
				3	13.67	18.75
50	500	16.10	53.59	1	16.10	53.59
				2	20.53	72.17
				3	18.25	67.29
				4	17.91	61.65
100	500	17.69	102.43	1	17.69	102.43
				2	21.05	106.08
				3	19.78	117.83
				4	19.49	104.24
250	500	21.45	268.30	1	21.45	268.30
				2	23.89	314.09
				3	22.22	478.12
				4	23.07	298.02

$$\text{Alien Crosstalk} = - 60 + 10 \cdot \log(\text{freq}/100)$$

Cable = CAT-6
LINE CODING = PAM10
DATA = ISO
Cancellation = MARVELL
NEXT Cancellation = 50 dB
ECHO Cancellation = 70 dB
FEXT Cancellation = 30 dB
ALIEN NEXT Cancellation = 0 dB
Capacity = 14.7741 Gbps
SPECTRAL DENSITY = SINGLE-SIDED

Cable = CAT-6
LINE CODING = PAM5
DATA = ISO
Cancellation = PLATO
NEXT Cancellation = 50 dB
ECHO Cancellation = 65 dB
FEXT Cancellation = 50 dB
ALIEN NEXT Cancellation = 0 dB
Capacity = 14.1198 Gbps
SPECTRAL DENSITY = SINGLE-SIDED

Cable = CAT-6
LINE CODING = PAM10
DATA = ISO
Cancellation = SOLARFLARE
NEXT Cancellation = 40 dB
ECHO Cancellation = 40 dB
FEXT Cancellation = 20 dB
ALIEN NEXT Cancellation = 0 dB
Capacity = 10.5080 Gbps
SPECTRAL DENSITY = SINGLE-SIDED

Cable = CAT-6
LINE CODING = PAM5
DATA = ISO
Cancellation = SOLARFLARE
NEXT Cancellation = 40 dB
ECHO Cancellation = 40 dB
FEXT Cancellation = 20 dB
ALIEN NEXT Cancellation = 0 dB
Capacity = 10.3617 Gbps
SPECTRAL DENSITY = SINGLE-SIDED