



SEE NO EVIL

VAN DAMME DIGITAL COAXIALS TRANSMISSION LENGTH GUIDELINES

These guidelines are calculated using a maximum attenuation of -30 dB at the frequency corresponding to half of the actual signal's data rate for SMPTE 259, and -20 dB for SMPTE 292 and 424M. SMPTE and others advise that 90% of this calculated cable length introduces an appropriate safety factor. The chart below uses an 80% safety factor as jitter and other factors can increase dramatically in the last 20% of a cable run. The use of precision 75 Ohm components throughout the signal chain is imperative, and the use of cable or bulkhead couplers will reduce the transmission length.

		SMPTE 259				SMPTE 292	SMPTE 424
Data rate (clock)		143 Mb/s	177 Mb/s	270 Mb/s	360 Mb/s	1.485 Gb/s	2.97 Gb/s
½ Clock rate		72 MHz	89 MHz	135 MHz	180 MHz	743 MHz	1.485 GHz
		Recommended maximum transmission length					
Stock Code	Description					1080i / 720p	1080p
278-075-000	Van Damme SDI Vision Ecoflex LSZH single coax	264 m	237 m	196 m	172 m	54 m	36 m
278-075-006	Van Damme SDI Vision Ecoflex LSZH 6 way coax	264 m	237 m	196 m	172 m	54 m	36 m
278-475-000	Van Damme HD Vision RG11/U coax LSZH	730 m	652 m	510 m	466 m	144 m	99 m
278-975-000	Van Damme HD Vision RG59/U coax LSZH	316 m	284 m	230 m	188 m	58 m	42 m
278-775-000	Van Damme HD Vision Miniature coax LSZH	148 m	132 m	108 m	66 m	29 m	20 m
278-175-000	Van Damme HD Vision RG6/U coax LSZH	443 m	399 m	328 m	287 m	90 m	64 m
268-175-000	Van Damme HD Vision flexible coax RG6/U	320 m	288 m	172 m	152 m	63 m	41 m
268-275-000	Van Damme HD Vision flexible coax RG59/U	249 m	224 m	145 m	128 m	47 m	31 m
268-475-000	Van Damme HD Vision coax 4 way multicore	420 m	379 m	311 m	273 m	85 m	60 m
268-675-000	Van Damme HD Vision coax 6 way multicore	420 m	379 m	311 m	273 m	85 m	60 m

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