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VAN DAMME DIGITAL COAXIALS TRANSMISSION LENGTH GUIDELINES

Calculated transmission lengths have been reduced (safety factor) as jitter and other errors are more likely to occur in the last 10% of a cable run. The safety factor is increased for flexible and multicore coaxes as they are frequently deployed rather than installed. 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. Transmission length is not guaranteed, and may also be exceeded, as it is co-dependant with the equipment being used.

		SMPTE 259		SMPTE 292	SMPTE 424	Safety
		Component 4:3	Component 16:9	1080i / 720p	1080p	Factor
Data rate (clock)		270 Mb/s	360 Mb/s	1.485 Gb/s	3 Gb/s	
½ Clock rate		135 MHz	180 MHz	743 MHz	1.5 GHz	
Attenuation limit		-30dB at ½ clock rate		-20dB at ½ clock rate		
Stock Code	Description					
278-075-000	Van Damme SDI Vision Ecoflex LSZH single coax	221 m	194 m	60 m	41 m	90%
278-075-006	Van Damme SDI Vision Ecoflex LSZH 6 way coax	221 m	194 m	60 m	41 m	90%
268-875-011	Van Damme Enhanced UHD Vision RG11	584 m	511 m	165 m	114 m	90%
268-875-006	Van Damme Enhanced UHD Vision RG6	397 m	338 m	111 m	75 m	90%
268-875-000	Van Damme Enhanced HD Vision	367 m	320 m	100 m	69 m	90%
278-475-000	Van Damme HD Vision RG11/U coax LSZH	560 m	486 m	150 m	100 m	90%
278-975-000	Van Damme HD Vision RG59/U coax LSZH	320 m	264 m	82 m	58 m	90%
278-775-000	Van Damme HD Vision Miniature coax LSZH	130 m	113 m	38 m	28 m	90%
278-175-000	Van Damme HD Vision RG6/U coax LSZH	369 m	323 m	101 m	72 m	90%
268-175-000	Van Damme HD Vision flexible coax RG6/U	277 m	135 m	74 m	50 m	85%
268-275-000	Van Damme HD Vision flexible coax RG59/U	222 m	190 m	58 m	39 m	85%
268-475-000	Van Damme HD Vision coax 4 way multicore	349 m	305 m	96 m	68 m	85%
268-675-000	Van Damme HD Vision coax 6 way multicore	349 m	305 m	96 m	68 m	85%

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		SMPTE 425 3 Gb/s stereo	ST 2081 6 Gb/s single link	ST 2082 12 Gb/s single link	Safety Factor
		ST 2081 6 Gb/s dual link	ST 2082 12 Gb/s dual link		
		ST 2082 12 Gb/s quad link			
Data rate (clock)		3 Gb/s	6 Gb/s	12 Gb/s	
½ Clock rate		1.5 Gb/s	3 Gb/s	6 Gb/s	
Attenuation limit		-40dB at ½ clock rate			
Stock Code	Description				
278-075-000	Van Damme SDI Vision Ecoflex LSZH single coax	82 m	Not recommended		90%
278-075-006	Van Damme SDI Vision Ecoflex LSZH 6 way coax	82 m	Not recommended		90%
268-875-011	Van Damme Enhanced UHD Vision RG11	227 m	155 m	105 m	90%
268-875-006	Van Damme Enhanced UHD Vision RG6	150 m	103 m	72 m	90%
268-875-000	Van Damme Enhanced HD Vision	137 m	100 m	48 m	90%
278-475-000	Van Damme HD Vision RG11/U coax LSZH	200 m	134 m		90%
278-975-000	Van Damme HD Vision RG59/U coax LSZH	115 m	78 m		90%
278-775-000	Van Damme HD Vision Miniature coax LSZH	57 m	Not recommended		90%
278-175-000	Van Damme HD Vision RG6/U coax LSZH	143 m	101 m		90%
268-175-000	Van Damme HD Vision flexible coax RG6/U	100 m	65 m		85%
268-275-000	Van Damme HD Vision flexible coax RG59/U	78 m	58 m		85%
268-475-000	Van Damme HD Vision coax 4 way multicore	135 m	75 m		85%
268-675-000	Van Damme HD Vision coax 6 way multicore	135 m	75 m		85%