

Max Transmission Distance for SMPTE ST 2082-1 (12Gb/s - Single Link)

RG Type	Laird Cable Assembly	Laird Certified 12G-SDI Distance		Canare Cable Max 12G-SDI Distance		Belden Cable Max 12G-SDI Distance	
		Feet	Meters	Feet	Meters	Feet	Meters
Mini RG-59	L25CHWS	80	24.38	104.98	32	-	-
	MCVP-MCVP	80	24.38	104.98	32	-	-
	12G-M59	115	35	-	-	-	-
	HDBNC12G59	115	35	-	-	-	-
	HDBRA12G59	115	35	-	-	-	-
	12GDINM59	115	35	-	-	-	-
	L25CHD	115	35	141	43	-	-
	4855R	117	35.66	-	-	149	45
	HDBNC4855	117	35.66	-	-	208	63
	HDBRA4855	117	35.66	-	-	208	63
	B4855R	117	35.66	-	-	149	45
	4855R10	117	35.66	-	-	208	63
RG-59	L33FLEX	98	29.87	131.23	40	-	-
	L33CUHD	100	30.48	190.28	58	-	-
	4505R	150	45.72	-	-	208	63
	4505RX5	150	45.72	-	-	208	63
	RTBNC-4505	150	45.72	-	-	149	45
	VMPUHD	150	45.72	-	-	208	63

Max Transmission Distance for SMPTE ST 2082-1 (12Gb/s - Single Link)							
RG Type	Laird Cable Assembly	Laird Certified 12G-SDI Distance		Canare Cable Max 12G-SDI Distance		Belden Cable Max 12G-SDI Distance	
		Feet	Meters	Feet	Meters	Feet	Meters
RG-6	L45CHWS	98	29.87	164	50	-	-
	4694F	125	38.1	-	-	184	56
	RTBNC-4694F	125	38.1	-	-	184	56
	RTBNC-4694	190	57.91	-	-	257	78
	4694R	190	57.91	-	-	257	78
	4694RX5	190	57.91	-	-	257	78
	B4694R	190	57.91	-	-	257	78
	12GSDI	250	76.2	334.64	102	-	-
Series 7	12GFLEX	150	45.72	232.93	71	-	-
	4794R	225	68.58	-	-	321	98
	HDBNC4794	225	68.58	-	-	321	98
RG-11	L8CUHD	325	99	469.16	143	-	-

At Laird Digital Cinema, we believe that shorter CRC-certified distances are not a limitation—they are a guarantee of reliable performance. They represent a signal path that has been validated under real-world stress and confirmed to deliver clean, error-free 4K video from the camera to the screen, every time. Other manufacturers provide BER (Bit Error Rate) test results based on a controlled lab environment and the theoretical limit of how far the signal can travel before the physical layer degrades.

Laird-certified lengths are defined as the maximum transmission lengths at which signal integrity remains 100% functional without any CRC errors. Your 12G-SDI ST 2082 signals may function at or beyond the manufacturer-certified lengths without issues; however, when CRC errors occur, there may be drops in audio, video, metadata, and ancillary data.