

# Maximum Transmission Length

## for "HD" Series Coaxial

	SD-SDI(NTSC)	SD-SDI(PAL)	SD-SDI	SD-SDI	HD	3 GHz	3 GHz	6 GHz	12 GHz
Data Rate	143 Mb/s	177 Mb/s	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s	3 Gb/s	6 Gb/s	12 Gb/s
Spec	SMPTE 259	SMPTE 259	SMPTE 259M	SMPTE 259M	SMPTE 292M (SMPTE 372M)	SMPTE 424M	SMPTE 425-4	SMPTE ST 2081-1	SMPTE ST 2082-1
Application	Composite NTSC	Composite PAL	Composite 4:3 SD-SDI	Widescreen SD-SDI	720p - 1080i (Dual Link 1080p)	3G-SDI HD-SDI 1080i 1.5G-SDI	UHDTV1 UHDTV2	UHDTV1, UHDTV2	UHDTV1, UHDTV2
Part No.	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]
HD300	152	137	116	111	34	25	25	24	21
HD600	333	306	254	213	70	50	95	66	44
4706	337	309	256	216	71	49	97	67	46
HD720	484	441	357	297	96	64	129	86	53
4708	492	448	361	303	98	66	132	88	59
HD850	400	345	280	246	71	48	96	63	38
HD920	454	408	318	272	79	59	106	69	54
HD920F	454	408	318	272	79	59	106	69	54
HD1000	588	536	435	361	116	78	156	105	69
4710	612	566	455	385	124	83	165	110	79
HD1300	581	520	433	372	144	120	192	128	81
4713T	675	620	521	459	150	104	210	143	99
HD1630	909	833	682	588	177	122	244	170	110
4716T	938	882	714	612	182	129	258	184	117

Application		Composite Video FBAS	S-Video S-VHS,Y/C	Component Video RGB , YUV
Part No.	Attenuation 100 MHz/100m	Calculated Transmission Length [m]	Calculated Transmission Length [m]	Calculated Transmission Length [m]
HD300	22 dB	50	50	50
HD600	10 dB	121	121	121
HD720	7.5 dB	149	149	149
HD850	9.8 dB	105	105	105
HD1000	6.4 dB	208	208	208
HD1300	4.7 dB	320	320	320
HD1630	4.2 dB	329	329	329

The calculated transmission distances are based on a formula in the SMPTE standards , in many cases tested distances are greater.  
Please use calculated distances prior to testing and allow sufficient headroom.