

Summary of transmission distances Video Cables

Maximum transmission distance in m at digital data rates

Draka Multimedia Cable recommends - 90% of the calculated max. length

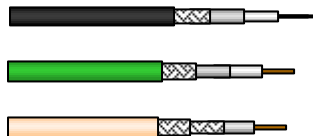
Cable type	143 Mb/s Composite NTSC SMPTE 170M	270 Mb/s SMPTE 259M	360 MB/s Component Widescreen	1.5 Gb/s HDTV SMPTE 292M
0.51/2.4 AF	205	165	145	45
0.58/2.6 AF	270	218	190	55
0.6/2.8 AF	290	230	200	60
0.6/3.7 Dz	285	200	170	55
0.8/3.7 AF	385	305	265	80
0.8/4.9 Dz	380	265	225	75
1.0/4.8 AF	485	365	315	100
1.0/6.6 D	475	360	310	130
1.4/6.6 AF	645	480	415	95
1.6/7.3 AF	705	530	460	145

Transmission distances of analogue video signals based upon the limit frequency of 5,5MHz at - 3dB (70.7%)

Cable type	Product code	Attenuation at 5MHz/100m	Composite FBAS	YUV Components
752-704 (2x0.6/2.8AF)	CT2722000	2.5 dB	115 m	115 m
753-701 (3x0.6/2.8AF)	CT2729900	2.5 dB	115 m	115 m
754-701 (4x0.6/2.8AF)	CT2729800	2.5 dB	115 m	115 m
755-701 (5x0.6/2.8AF)	CT2960700	2.5 dB	115 m	115 m
757-701 (7x0.6/2.8AF)	CT2729700	2.5 dB	115 m	115 m
758-704 (8x0.6/2.8AF)	CT2958600	2.5 dB	115 m	115 m
755-804 (5x0.8/3.7AF)	CT2961400	1.9 dB	152 m	152 m
753-801 (3x0.8/3.7AF)	CT7680100	1.9 dB	152 m	152 m
755-801 (5x0.8/3.7AF)	CT7680200	1.9 dB	152 m	152 m
755-803 (3x0.8/3.7AF)	CT7603400	1.9 dB	152 m	152 m
755-901 (5x1.0/4.8AF)	CT2985800	1.6 dB	182 m	182 m
755-901/5 (5x1.0/4.8AF)	CT2988900	1.6 dB	182 m	182 m
0.51/2.4 AF PVC	CT2724000	3.4 dB	72 m	72 m
0.6/2.8 AF FRNC	CT2850202	2.5 dB	115 m	115 m
0.6L/2.8 AF PVC	CT2739600	2.9 dB	100 m	100 m
0.6L/3.7 AF PVC	CT2741200	3.1 dB	93 m	93 m
0.6/3.7 Dz PVC	CT2741001	2.4 dB	121 m	121 m
0.8/3.7 AF FRNC	CT2850301	1.9 dB	152 m	152 m
0.8/3.7 AF PVC	CT2710800	1.9 dB	152 m	152 m
0.8/4.9 Dz PVC	CT2741600	1.8 dB	161 m	161 m
1.0/4.8 AF PVC	CT2758300	1.6 dB	182 m	182 m
1.0/4.8 AF FRNC	CT2850401	1.6 dB	182 m	182 m
1.0/6.6 PVC	CT2742000	1.4 dB	208 m	208 m
1.6/7.3 AF FRNC	CT2760901	0.9 dB	323 m	323 m



Draka Comteq



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Cable type	0.51/2.4AF	0.58/2.6AF	0.6/2.8AF	0.6L/2.8AF	0.6/3.7	0.6L/3.7	0.6/3.7Dz	0.8/3.7AF	0.8/4.9Dz	1.0/4.8AF	1.0/6.6	1.4/6.6AF	
Standard								BBC PSF		BBC PSF			
Product code	CT2724000	CT2723900	CT2738600	CT2739600	CT2740200	CT2741200	CT2741001	CT2850301	CT2741600	CT2850401	CT2742000	CT2758400	
Construction													
Inner conductor	Ø mm	Cu-wire 0.51	Cu-wire 0.58	Cu-wire 0.6	Stranded Cu-wire 0.6	Cu-wire 0.6	Stranded Cu-wire 0.6	Cu-wire 0.6	Cu-wire 0.8	Cu-wire 0.8	Cu-wire 1.0	Cu-wire 1.0	Cu-wire 1.4
Insulation		Foam-PE	Foam-PE	Foam-PE	Foam-PE	PE	PE	PE	Foam-PE	PE	Foam-PE	PE	Foam-PE
Outer conductor		Al-Pet-Al foil + braid	Al-Pet-Al foil + braid	Al-Pet-Al foil + braid	Al-Pet-Al foil + braid	Cu-braid	Cu-braid	2 x Cu-braid	Al-Pet-Al foil + braid	2 x Cu-braid	Al-Pet-Al foil + braid	Cu-braid	Cu-braid + foil + Cu-braid
Sheath material		FRNC, PVC	FRNC, PVC	FRNC, PVC	DMC Flex PUR	FRNC, PVC	PVC	PVC	FRNC, PVC	PVC	FRNC, PVC	FRNC, PVC, PE	FRNC, PVC
Sheath	Ø mm	4.0	4.0	4.5	4.5	6.0	6.0	6.3	5.9	7.4	7.0	9.2	9.2
Sheath colour		green	green	green	black	green	green	ivory	green	ivory	green	green	green

Electrical Properties													
Characteristic impedance	O	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75
Attenuation* at (dB/100m)	1MHz	1.5	1.3	1.2	1.5	1.1	1.4	1.1	0.9	0.8	0.8	0.6	0.5
	3MHz	2.7	2.4	1.9	2.4	1.9	2.4	1.9	1.5	1.4	1.3	1.1	0.8
	5MHz	3.4	3.1	2.5	2.9	2.4	3.1	2.4	1.9	1.8	1.6	1.4	1.0
	10MHz	4.9	4.2	3.5	4.1	3.4	4.2	3.4	2.7	2.5	2.1	2.0	1.5
	30MHz	8.5	7.3	5.9	6.8	5.9	7.3	5.9	4.4	4.4	3.5	3.5	2.5
	100MHz	14.9	11.4	10.5	12.1	10.9	13.5	10.9	7.9	8.0	6.2	6.5	4.8
	200MHz	21.1	15.9	15.0	17.6	15.8	19.1	15.8	10.9	11.8	8.9	9.4	7.1
	300MHz	25.8	19.6	18.7	21.5	19.5	23.9	19.7	13.3	14.6	11.3	11.6	9.0
Screening factor	dB	> 100	> 100	> 100	> 100	> 65	> 65	> 75	> 100	> 75	> 100	> 60	> 100
	Velocity ratio	%	78	78	78	78	67	67	67	78	67	78	67
	DC resistance												
Inner conductor	O/km	90.0	90.0	61.0	35.0	61.0	78.0	61.0	35.0	35.0	22.0	22.0	12.0
	Outer conductor	O/km	18.5	18.5	17.0	10.0	17.0	13.0	5.5	10.0	5.0	7.0	8.0
Return loss in MHz	50-300	> 26	> 26	> 26	> 26	> 26	> 23	> 26	> 26	> 26	> 26	> 24	> 26
	300-3000	> 22	> 22	> 22	> 22	> 20	> 18	> 22	> 22	> 22	> 22	> 21	> 21
Mutual capacitance	pF/m	56.0	56.0	56.0	56.0	67.0	67.0	67.0	56.0	67.0	56.0	67.0	56.0

Other cable types, sheath colours or sheath material on request

* the mentioned attenuation values are averages

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Topics and hints are welcome.