



cable

Standard 75 Ohm Plasma Grade video coaxial cable



Van Damme Standard 75 Ohm Plasma Grade Video Coax is a high resolution cable designed for use with analogue video signals. Precision performance is combined with flexibility usually only found in microphone cables resulting in an excellent video cable for dynamic use in the broadcast, video and presentation markets.

Applications

- Analogue video transmission up to 100 metres
- Suitable for SP Dif digital audio and word clock

Application notes

- Can be used with serial digital video transmissions up to 138 metres
- Uses RG59 type crimp connectors
- Colour coding suitable for RGBHV, RGBS, YUV and other video formats
- Ultra pure oxygen free copper for outstanding sonic integrity

Transmission length guidelines

These transmission lengths have been calculated throughout to a maximum attenuation of -30dB at the frequency corresponding to half of the actual signal data rate for SMPTE 259. SMPTE and others advise that 90% of this cable length introduces an appropriate safety factor - this has been taken into account in the chart below.



SMPTE 259

Data rate (clock)	143Mb/s	177Mb/s	270Mb/s	360Mb/s
½ Clock Rate	72MHz	89MHz	135MHz	180MHz
Recommended transmission length	212m	191m	159m	138m

standard 75 series

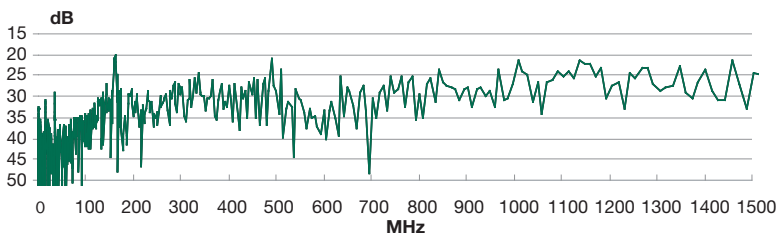
Mechanical Specifications

Conductor		
Material	Bare ultra pure oxygen free copper	
Stranding	7x 0.20mm (0.22mm ²) AWG 24/7	
Dielectric		
Material	Polyethylene	
Average thickness	1.55mm	
Diameter	3.73mm ± 0.03	
Screen		
Material	Bare oxygen free braided copper wire	
Coverage	95%	
Dimension	16x9x0.12mm	
Overall Jacket		
Material	Flexible PVC; colours as follows	
	Jet Black RAL 9005	
	Flame Red RAL 3000	
	Mint Green RAL 6029	
	Sky Blue RAL 5015	
	Light Ivory (Cream) RAL 1015	
Average thickness	0.95mm	
Overall diameter	6.15mm	
Bend radius	15 x overall diameter	
Cable weight	50 Kg/Km	
Physical properties unaged Jacket (@ 60°C)		
Tensile strength	> 10 N/mm ²	
Elongation	> 125 %	
Heat Shock Test	150°C x 1 hour / No cracks	

Electrical Specifications

Resistance		
Conductor	85 Ohm/Km	
Shield	13 Ohm/Km	
Insulation	> 5000 M Ohm/Km	
Voltage test	7000V DC 1 minute OK	
Capacitance	67 pF/m	
Velocity of propagation	66%	
Impedance at 10MHz	75 Ohms ± 2	
Attenuation		
10 MHz	4.21 dB/100m	
100 MHz	13.32 dB/100m	
135 MHz	15.08 dB/100m	
180 MHz	17.42 dB/100m	
200 MHz	18.36 dB/100m	
400 MHz	28.11 dB/100m	
743 MHz	38.31 dB/100m	

Structural return loss



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