

Red Series Plasma Grade video multicore



Van Damme Red Series Video multicores are 4 and 5 way versions of the Van Damme standard 75 Ohm coaxes. Designed for use in the Presentation and Broadcast industries, they are commonly used for the transmission of video signals such as RGBHV and RGB Sync over longer distances - up to 100 metres for analogue video signals. They are flexible but also very robust and are ideal for multiple rig and de-rig situations due to the attention paid to their construction,

als overall diameter and weight.

Applications

- Extended transmission of RGBHV and RGB Sync video signals
- Can be used with confidence at 100 metres

Application notes

- Suitable for SDI use up to 138 metres
- Uses RG59 type crimp connectors
- 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- the chart below includes an 80% safety factor as jitter and other factors can increase dramatically in the last 20% of a cable run.

SMPTE 259

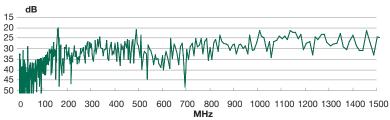
Data rate (clock)	143Mb/s	177Mb/s	270Mb/s	360Mb/s
½ Clock Rate	72MHz	89MHz	135MHz	180MHz
Recommended transmission length	212m	191m	159m	138m

red series

Mechanical Specifications - Individual Core	Mechanical	Specifications -	 Individual 	Cores
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Conductor	Material	Bare ultra pure oxygen free	e copper	
	Stranding	7x 0.20mm (0.22mm²) AW(G 24/7	
Dielectric	Material	Polyethylene		
	Average thickness	1.55mm		
	Diameter	3.73mm ± 0.03		
Screen	Material	Bare oxygen free braided of	copper wire	
	Coverage	95%		
	Dimension	16x9x0.12mm		
Overall Jacket	Material	Flexible PVC		
	Average thickness	0.70mm		
	Overall diameter	6.15mm		
Mechanical Specifications -	Multicore			
	4-way	5-way		
Stock Code	268-314-020	268-315-020		
Coax Colours	Red, Green, Blue, Black	Red, Green, Blue, Black, Cream		
Material	Flexible PVC Purple Red RAL 3004			
Average thickness	1.60mm	1.60mm		
Overall diameter	18.0mm	20.0mm		
Bend radius	15 x overall diameter			
Weight	350 Kg/Km	400 Kg/Km		
Physical properties unaged				
Jacket (@ 60°C)	Tensile strength	> 10 N/mm²		
	Elongation	> 125 %		
	Heat Shock Test	150°C x 1 hour / No cracks		
Flootwicel Constitutions	THOSE CHOCK TOOL	100 0 % 1 11001 / 110 01001		
Electrical Specifications Resistance	O a real contains	05 01 (1/		
Resistance	Conductor	85 Ohm/Km		
	Shield	13 Ohm/Km		
Voltage teet	Insulation	> 5000 M Ohm/Km		
Voltage test Capacitance		7000V DC 1 minute OK		
		67 pF/m		
Velocity of propagation		66%		
Impedance at 10MHz	40 MH-	75 Ohms ± 2	000 MIL	40.00 45.400
Attenuation	10 MHz	4.21 dB/100m	200 MHz	18.36 dB/100m
	100 MHz	13.32 dB/100m	400 MHz	28.11 dB/100m
	135 MHz	15.08 dB/100m	743 MHz	38.31 dB/100m
	180 MHz	17.42 dB/100m		

Structural return loss



Multicores characteristics by stock code

Stock code	Overall diameter mm	Jacket thickness mm	Weight Kg/Km	
268-314-020	18.00	1.50	350	
268-315-020	20.00	2.50	400	

• Maximum reel length 500 metres