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VAN DAMME RED SERIES PLASMA GRADE MINIATURE VIDEO MULTICORE



Van Damme Red Series Miniature video multicore are 2, 4, and 5 way versions of the Van Damme miniature coax. The 2, 4 and 5 way versions are exceptionally flexible and are designed to seamlessly integrate with standard analogue video multipin connectors such as SVHS (4 pin mini din), D9 and high density D15 (VGA) connectors.

KEY BENEFITS			MATERIALS			APPLICATIONS		
Precision 75Ω Impedance	Flexibility	Low overall diameter	Oxygen Free Copper	Foam skin polyethylene	Flexible PVC	Broadcast	Video	Presentations

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Applications

- Multicore video signal transmissions - SVHS (YC), YUV, RGBS and RGBHV (VGA)
- Custom length multipin to BNC breakouts

Application Notes

- 30 metre recommended maximum length for analogue video
- Longer run lengths achievable using appropriate distribution amplifiers (DAs)
- Industry standard colour coded.
- All cables use RG179 type connectors and small BNC boots

Mechanical Specification

Conductor	7 x 0.12 mm bare ultra-pure oxygen-free copper
Conductor size	7 x 0.12 mm, 0.08 mm ² , AWG 30/7
Dielectric	Foam skin polyethylene
Diameter	1.60 ± 0.07 mm
Screen	Tinned braided oxygen free copper, < 95% coverage
Overall Jacket	Flexible antistatic PVC
Coax colours	
2 way	Yellow, White
4 & 5 way	Red, Green, Blue, Black, White (5 way only)
Overall diameter	2.60 ± 0.07 mm

Tracer wire (5 way only)

Conductor	7 x 0.20 mm bare ultra-pure oxygen-free copper
Conductor size	7 x 0.20 mm, 0.22 mm ² , AWG 24/7
Overall jacket	Special antistatic flexible PVC, orange
Overall diameter	1.10 ± 0.05 mm

Overall Construction

Overall Jacket	Special antistatic flexible PVC Purple Red RAL 3004
Bend Radius	15 x overall diameter
Operating temperature	-20 to + 70 °C

Electrical Specification

Impedance	75 ± 5 Ohms
Conductor Resistance	< 235 Ohm/km
Capacitance	56.5 pF/m
Velocity of Propagation	80%
Attenuation (dB/100m)	
	10 MHz 6.99
	50 MHz 15.77
	100 MHz 22.74
	135 MHz 26.64
	180 MHz 30.99



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Part Numbers and Description

Part Number	Description	Overall Diameter	Max. Reel Length
268-302-020	Van Damme Red Series Mini coax 2 way multicore	7.40 mm	500 m
268-304-020	Van Damme Red Series Mini coax 4 way multicore	8.80 mm	500 m
268-305-020	Van Damme Red Series Mini coax 5 way multicore	9.60 mm	500 m

Recommended BNC Connectors

335-012-000	Van Damme BNC cable male RG179B/U
335-014-179	Van Damme BNC cable female RG179B/U
335-012-179	Van Damme BNC bulkhead female RG179B/U Neutrik rearTWIST HD BNC NBTC75BLI4

Connector selection criteria:

Conductor 0.38 mm Dielectric diameter 1.60 mm Overall diameter 2.60 mm (0.38/1.6/2.6)

Standards and Compliance

RoHS 2011/65/EU	Restriction of Hazardous Substances
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals