



THE ROUTE OF LEAST RESISTANCE

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## VAN DAMME HD VISION FLEXIBLE COAX



Van Damme HD Vision single coaxials are based around industry standard RG6/U and RG59/U. Their precision construction ensures that electrical performance has not been majorly affected by the use of a stranded centre conductor, ensuring trouble free performance with SMPTE 424M and 292M HD-SDI signals as well as SDI and analogue video.

### KEY BENEFITS



Precision 75Ω  
Impedance



Flexibility

### MATERIALS



Oxygen Free  
Copper



Skin foam  
skin  
polyethylene



Flexible PVC

### APPLICATIONS



Broadcast



Video



Presentations

[www.van-damme.com](http://www.van-damme.com)

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### Applications

- Transmission of HD-SDI, SDI and analogue video signals
- Stranded centre conductor for flexible use
- Ideal for use as patchcords, shorter HD-SDI cables and cable reel systems
- Designed for touring, outside broadcast and other dynamic uses

### Application Notes

- Use of precision 75 Ohm components throughout any signal chain is imperative
- See downloads for Transmission length guidelines

### Mechanical Specification

Part No.	268-175-000	268-275-000
Conductor	Bare oxygen free copper	
Stranding	19 x 0.20 mm	19 x 0.16 mm
Size	0.616 mm <sup>2</sup> , AWG 20/19	0.38 mm <sup>2</sup> , AWG 22/19
Dielectric	Gas injected skin foam skin polyethylene	
Diameter (mm)	4.57	3.70
Screen	Tinned oxygen free braided copper	
Screen 1 (Inner)	< 93% coverage	< 93% coverage
Screen 2 (Outer)	< 95% coverage	< 94% coverage
Overall jacket	Flexible PVC composite Jet Black RAL 9005	
Overall diameter (mm)	7.00 ± 0.15	6.15 ± 0.15
Bend radius	15 x overall diameter	
Operating temperature	-15 to +70 °C	

### Electrical Specification

Part No.	268-175-000	268-275-000
Conductor resistance (Ohm/km)	< 28	< 40
Capacitance (pF/m)	53	57
Velocity of Propagation (%)	79	77.5
Impedance (Ohms)	75 ± 2	75 ± 2
Attenuation (dB/100m)		
10 MHz	2.36	2.95
135 MHz	9.19	11.48
180 MHz	10.83	13.45
270 MHz	12.12	16.73
743 MHz	22.97	29.20
1485 MHz	34.12	43.64
3000 MHz	45.50	58.30

### Part Numbers and Description

Part Number	Description	Max. Reel Length
268-175-000	Van Damme HD Vision flexible coax RG6/U	500 m
268-275-000	Van Damme HD Vision flexible coax RG59/U	500 m

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### Recommended BNC Connectors

Cable	Connector	
268-175-000 RG6/U	339-875-300	Van Damme HD-SDI cable male RG6/U stranded Neutrik rearTWIST HD BNC NBNCBRU11
268-275-000 RG59/U	339-275-000	Van Damme HD-SDI cable male RG6/U stranded

Connector selection criteria:

Cable	Conductor	Dielectric diameter	Overall diameter	Summary
268-175-000 RG6/U	19 x 0.20 mm	4.57 mm	7.00 mm	(1.0/4.6/7.0)
268-275-000 RG59/U	19 x 0.16 mm	3.70 mm	6.15 mm	(0.8/3.7/6.15)

### Standards and Compliance

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