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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.



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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^2, AWG 20/19	0.38 mm^2, 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