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VAN DAMME ENHANCED HD VISION DIGITAL RG6/U COAX



The Van Damme Enhanced Performance HD Vision coaxial is based around the industry standard RG6/U. Its precision construction ensures that electrical performance is optimised, ensuring trouble free performance with SMPTE 424M and 292M HD-SDI signals as well as SDI and analogue video. Also suitable for SMPTE 425M 6G and dual link 12G UHD use and short 12G patchcords.

APPLICATIONS	MATERIALS	KEY BENEFITS
 Broadcast  Video  Presentations	 29 CU Oxygen free copper  Skin Foam Skin Polyethylene  Flexible PVC	 Precision 75 Ohm Impedance  Extended Transmission Length

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Applications

- Transmission of HD-SDI, SDI and analogue video signals
- SMPTE 425M 6G and dual link 12G UHD video signals
- UHD 12G patchcords
- 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

Conductor	Bare oxygen free copper
Stranding	1 x 1.02 mm
Size	0.79 mm ² , AWG 18/1
Dielectric	Gas injected skin foam skin polyethylene
Diameter (mm)	4.60
Screen 1	Aluminium/polyester foil
Screen 2	Tinned oxygen free copper braid
Overall jacket	Flexible PVC composite Jet Black RAL 9005
Overall diameter (mm)	6.95 ± 0.25
Bend radius	15 x overall diameter
Operating temperature	-15 to +70 °C

Electrical Specification

Conductor resistance (Ohm/km)	25.3
Capacitance (pF/m)	53
Impedance (Ohms)	75 ± 5
Attenuation (dB/100m)	
100 MHz	6.40
135 MHz	7.35
180 MHz	8.43
270 MHz	10.40
743 MHz	18.04
1485 MHz	26.20
3000 MHz	36.35

Part Numbers and Description

Part Number	Description	Max. Reel Length
268-875-000	Van Damme Enhanced HD Vision solid conductor coax RG6/U	500 m

Recommended BNC Connectors

339-675-300	Van Damme HD-SDI cable male RG6/U Neutrik rearTWIST HD BNC NBNCBTU11 Neutrik rearTWIST UHD BNC NBNCBTU11X
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Connector selection criteria:

Conductor	Dielectric diameter	Overall diameter	Summary
1 x 1.02 mm	4.60 mm	6.95 mm	(1.0/4.6/7.0)

Standards and Compliance

RoHS 3 (EU 2015/863) Restriction of Hazardous Substances

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals