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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. It can also be used for shorter UHD runs when used with an appropriate 12G HD BNC connector.




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## Applications

- Transmission of HD-SDI, SDI and analogue video signals
- Shorter length transmission of UHD digital video
- 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 mm², 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<br>Neutrik rearTWIST HD BNC NBNCBTU11 |
| 301-659-242 | Neutrik rearTWIST UHD BNC NBNCBTU11X |

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Connector selection criteria:

| Conductor | Dielectric diameter | Overall diameter | Summary |
|---|---|---|---|
| 1 x 1.20 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 |