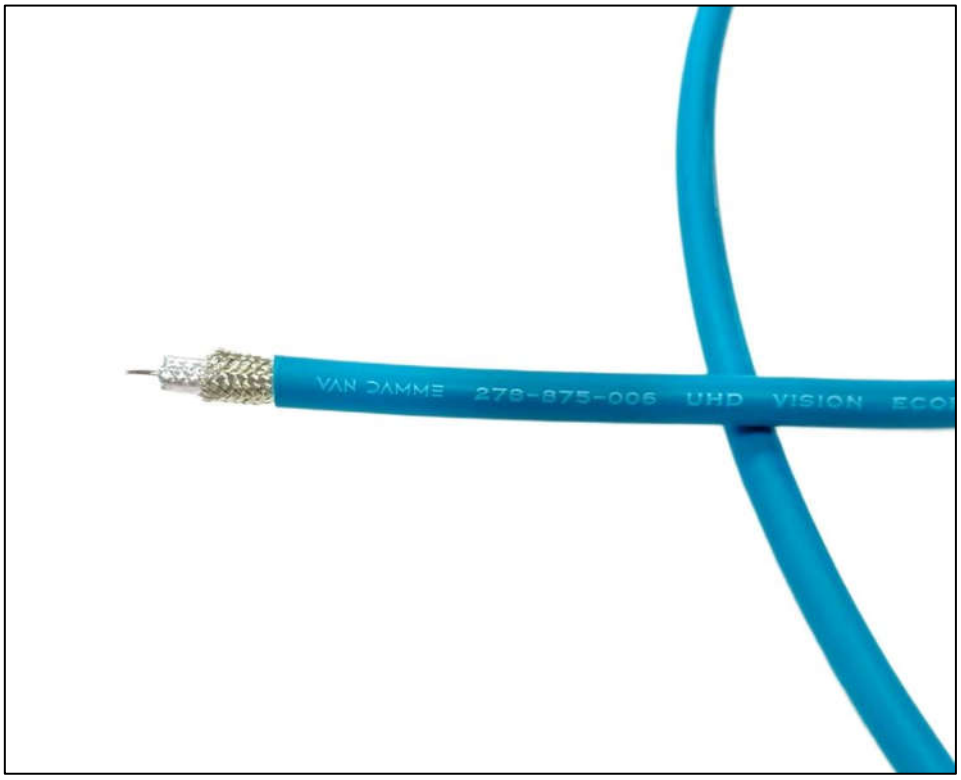
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VAN DAMME ENHANCED PERFORMANCE UHD VISION 12GHZ CABLE RG6/U LSZH





Low Smoke Zero Halogen jacketed version of the Van Damme Enhanced Performance UHD 12G Vision coaxial, based around the industry standard RG6/U. Its precision construction ensures that electrical performance is optimised, ensuring trouble free performance with 4K Single-link 12 Gb/s UHDTV, SMPTE 424M and 292M HDSDI signals as well as SDI and analogue video. Designed for installation with an Eca CPR rating

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Applications

- Transmission of UHD, HD-SDI, SDI and analogue video signals
- SMPTE 2082-1 12 Gb/s UHDTV up to 72 metres
- SMPTE 2081-1 6 Gb/s UHDTV up to 103 metres
- Installation in Broadcast and Post Production facilities, public buildings, schools and colleges and government premises

Application Notes

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

Mechanical Specification

Conductor	Silver plated oxygen free copper
Stranding	1 x 1.05 mm
Size	0.87 mm^2, AWG 18
Dielectric	Gas injected foam skin polyethylene
Diameter (mm)	4.60
Screen 1	Aluminium/polyester foil (bonded) > 115%
Screen 2	Tinned oxygen free copper braid > 95%
Overall jacket	LSZH polymer Water Blue RAL 5021
Overall diameter (mm)	6.95 ± 0.25
Bend radius	15 x overall diameter
Operating temperature	-30 to +75 ^oC

Electrical Specification

Conductor resistance (Ohm/km)	21
Capacitance (pF/m)	52
Impedance (Ohms)	75 ± 1.5
Velocity ratio	> 84.5%
Attenuation (dB/100m)	
100 MHz	6.20
135 MHz	6.80
180 MHz	8.00
270 MHz	10.00
720 MHz	16.00
1500 MHz	24.00
3000 MHz	35.00
4500 MHz	43.00
6000 MHz	50.00

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Part Numbers and Description

Part Number	Description	Max. Reel Length
278-875-006	Van Damme Enhanced UHD Vision 12Ghz solid conductor coax RG6/U LSZH	500 m

Recommended BNC Connectors

339-675-300	Van Damme HD-SDI cable male RG6/U
339-675-312	Van Damme UHD 12G cable male RG6/U
	Neutrik rearTWIST HD BNC NBNC75BTU11
	Neutrik rearTWIST UHD BNC NBNC75BTU11X

Connector selection criteria:

Conductor	Dielectric diameter	Overall diameter	Summary
1 x 1.05 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
CPR Class	E_{ca}