

## VAN DAMME 278-475-000 HD VISION RG11/U COAX LSZH



Van Damme HD Vision RG11/U precision coaxial cable has been designed with exacting electrical characteristics and mechanical tolerances to ensure trouble free performance with SMPTE 424M and 292M HD-SDI signals as well as SDI and analogue video. Optimised for long distance (up to 100 metres) 1080p HD-SDI transmissions.

### Applications & Application Notes

- Extended distance transmission of HD-SDI, SDI and analogue video signals
- Installation in public buildings, schools and colleges, government premises and marine vessels
- Jacket material specified as the thermoplastic polymer SHF1 or a special LSZH polymer; both compliant with IEC 60092 Electrical Installations in ships pt. 359 – Sheathing materials for shipboard power and communication cables
- Fully tested and compliant with the following IEC standards
  - IEC 60332.1 Fire retardancy of a single cable
  - IEC 60754.1 Amount of Halogen Gas Emissions
  - IEC 60754.2 Degree of acidity of released gases
  - IEC 61034.2 Measurement of smoke density
- Use of precision 75 Ohm components throughout any signal chain is imperative
- Recommended BNC male connector Neutrik NBLC75BVZ17 (Farnell code 999-2073)

### Recommended Transmission Lengths

Stock code	Data rate (clock)	SMPTE 259				SMPTE 292	SMPTE 424
		143Mb/s	177Mb/s	270Mb/s	360Mb/s	1.485Gb/s	2.97Gb/s
		½ Clock Rate	72MHz	89MHz	135MHz	180MHz	743MHz
		Recommended maximum transmission lengths					
278-975-000		730m	652m	510m	466m	144m	100m

## Mechanical Specifications

Conductor	Material	Bare ultra pure oxygen free copper
	Stranding	1 x 1.62mm
Dielectric	Material	Gas injected Foam skin polyethylene
	Average thickness	2.70mm
	Diameter	7.10mm $\pm$ 0.15
Screen 1	Type	Aluminium/polyester foil 125% coverage
Screen 2	Material	Tinned ultra pure oxygen free copper
	Coverage	95%
Overall Jacket	Material	LSZH polymer Water blue RAL 5021
	Average thickness	1.25mm
	Overall diameter	10.20mm $\pm$ 0.30

## Electrical specifications

Resistance	Conductor	<8.2 Ohm/km
	Shield	4.9 Ohm/km
	Insulation	>5000 MOhm/km
Voltage test		1000V DC 1 minute OK
Capacitance		52 pF/m
Velocity of propagation		85%
Impedance at 10MHz		75 Ohms $\pm$ 1.0
Attenuation	5 MHz	0.52 dB/100m
	10 MHz	1.50 dB/100m
	135 MHz	4.82 dB/100m
	180 MHz	5.55 dB/100m
	270 MHz	6.86 dB/100m
	743 MHz	12.00 dB/100m
	1485 MHz	18.00 dB/100m

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