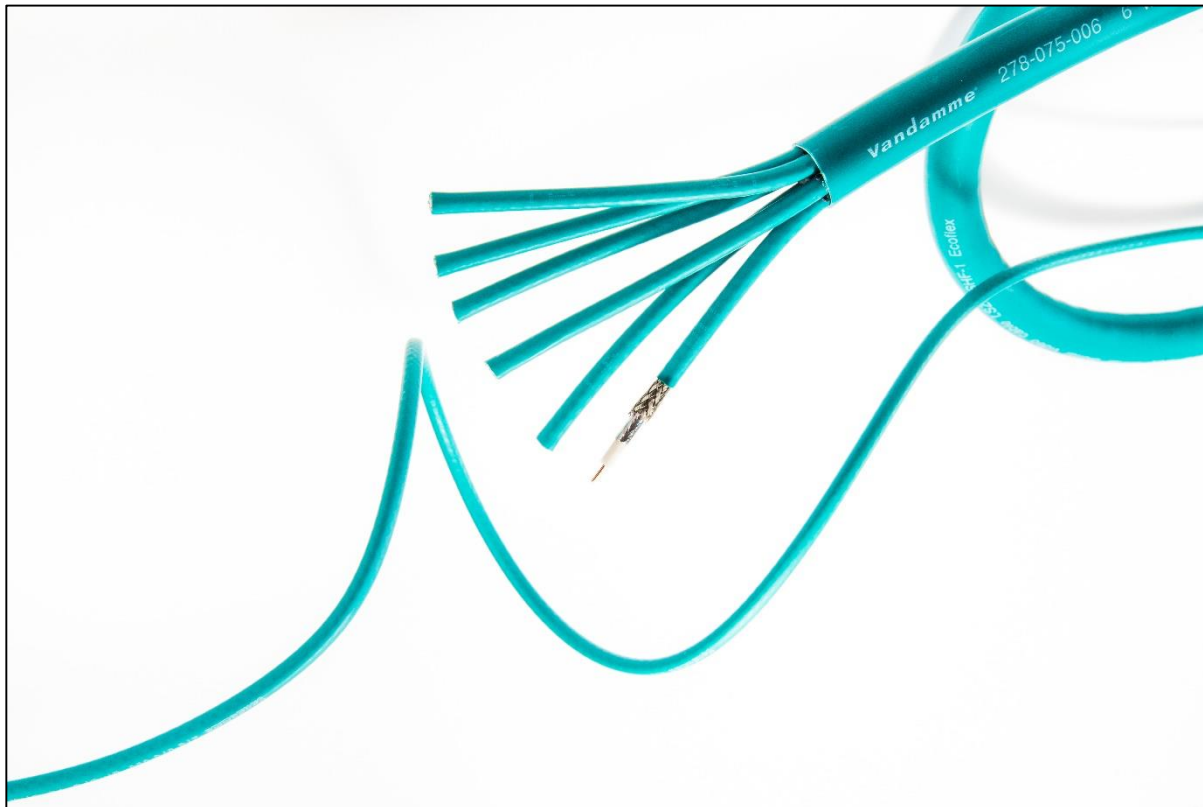


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## VAN DAMME SDI VISION ECOFLEX LSZH ST 4.5 COAX



The SDI Vision range of 75 Ohm precision coaxial cables comprises a Low Smoke Zero Halogen jacketed single coax and 6 way LSZH jacketed multicore. As with the Van Damme HD vision range close attention has been paid to their electrical characteristics and tolerances to ensure trouble free performance with SMPTE 259M SDI signals as well as analogue video. These cables can also be used for shorter distance transmission of 2.97 Gb/s HD-SDI - please see the transmission length guidelines.

### KEY BENEFITS



Precision 75Ω Impedance    Low Smoke Zero Halogen

### MATERIALS



Oxygen Free Copper    Foam skin polyethylene    SHF1 LSZH Polymer

### APPLICATIONS



Broadcast Installations    Government Buildings    Marine Installations

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### Applications

- Transmission of SDI and analogue video signals
- Short runs of 2.97 Gb/s HD-SDI
- 6 way multicore ideal for multiple SDI runs and/or RGBHV + composite analogue video
- Installation in public buildings, schools and colleges, government premises and marine vessels

### Application Notes

- Use of precision 75 Ohm components throughout any signal chain is imperative
- SHF1 Low Smoke Zero Halogen thermoplastic jacketing materials compliant with IEC 60092-360:2014 Electrical installations in Ships
- 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

### Mechanical Specification

#### 278-075-000

Conductor	1 x 0.60 mm bare oxygen-free copper
Conductor size	1 x 0.60 mm, 0.28 mm <sup>2</sup> , AWG 18
Dielectric	Foam skin polyethylene
Diameter	2.80 ± 0.05 mm
Screen 1	Aluminium/polyester foil 125% coverage
Screen 2 (Outer)	Tinned oxygen free braided copper, < 90% coverage
Overall jacket	SHF1 LSZH thermoplastic polymer Water Blue RAL 5021
Overall diameter	4.50 ± 0.15 mm
Bend radius	15 x overall diameter

#### 278-075-006 6 way

Overall jacket	SHF1 LSZH thermoplastic polymer Water Blue RAL 5021
Overall diameter	15.60 ± 0.30 mm
Bend Radius	15 x overall diameter
Operating temperature	-15 to +70 °C

### Electrical Specification

Impedance	75 ± 3 Ohms
Conductor Resistance	< 69 Ohm/km
Capacitance	56.5 pF/m
Velocity of Propagation	80%
Attenuation (dB/100m)	10 MHz 3.92
	135 MHz 12.24
	180 MHz 13.93
	270 MHz 17.15
	743 MHz 29.77
	1485 MHz 44.05

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### Part Numbers and Description

Part Number	Description	Max. Reel Length
278-075-000	Van Damme SDI Vision Ecoflex LSZH single coax	500 m
278-075-006	Van Damme SDI Vision Ecoflex LSZH 6 way coax	500 m

### Recommended BNC Connectors

339-075-000	Van Damme BNC cable male Serial DV	<b>NB SDI signals only</b>
339-075-300	Van Damme HD-SDI BNC cable male Serial DV	
	Neutrik rearTWIST HD BNC NBNC75BFG7	

Connector selection criteria:

Conductor 0.60 mm	Dielectric diameter 2.80 mm	Overall diameter 4.50 mm (0.6/2.8/4.5)
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### Standards and Compliance

RoHS 2011/65/EU	Restriction of Hazardous Substances
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
IEC 60092-360:2014	Electrical Installations in ships - Sheathing materials for shipboard power and communication cables
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