

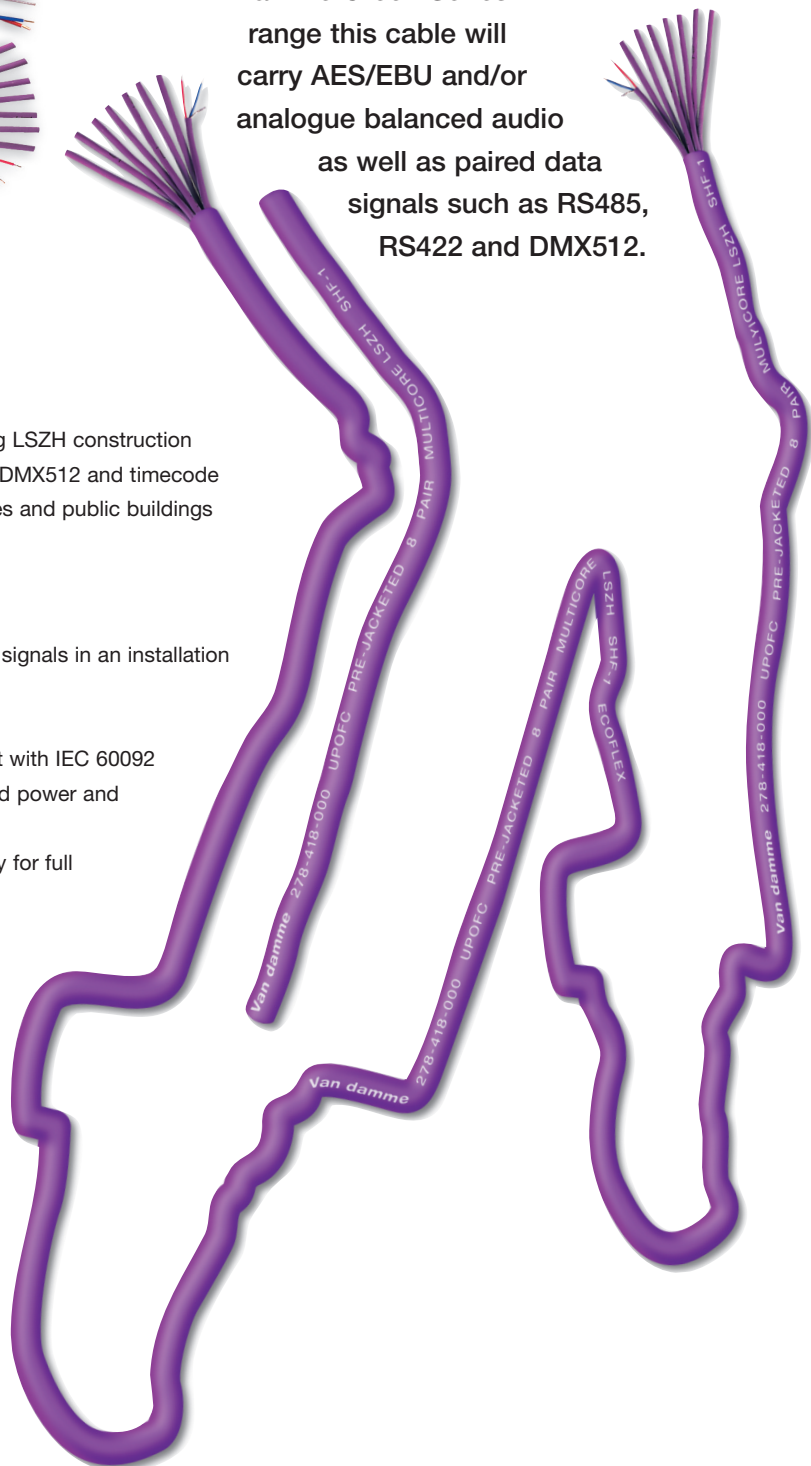
## Purple Series Digilog Ecoflex AES/Analogue installation cable LSZH



Van Damme Purple Series Digilog Ecoflex is a Low Smoke Zero Halogen (LSZH) jacketed audio multicore specifically for installation use. The use of LSZH cables is becoming a specified essential in public buildings and new build construction projects. Based electrically and mechanically on the Van

Damme Green Series range this cable will carry AES/EBU and/or analogue balanced audio

as well as paired data signals such as RS485, RS422 and DMX512.



### Applications

- Installed AES/EBU digital or analogue audio cable infrastructure requiring LSZH construction
- Any 100 to 110 Ohm balanced data application such as RS422, RS485, DMX512 and timecode
- Installation in marine vessels, schools and colleges, government premises and public buildings
- Equipment rack wiring where LSZH materials have been specified

### Application notes

- For the transmission of analogue and digital audio, paired data and midi signals in an installation environment from 1 - 24 pairs
- Multicore types have 26AWG conductors for a reduced overall diameter
- Jacket material specified as the thermoplastic polymer SHF-1; 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 (see glossary for full description)
  - 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
- Ultra pure oxygen free copper for outstanding sonic integrity

# purple series

## Multicore cables 2, 4, 8, 12 and 24 pairs

### Pair specifications

<b>Conductor</b>	Material	Bare ultra pure oxygen free copper wire
	Stranding	7 x 0.16mm (0.14mm <sup>2</sup> ) AWG 26/7
<b>Insulation</b>	Material	Foam skin polyolefin
	Average thickness	0.30mm
	Diameter	1.10mm ±0.10
	Colour coding	Red/Blue
<b>Cabling</b>	Type	Twisted pair
	Lay length	~25mm
<b>Screen</b>	Type	24µm Aluminium/polyester foil >150% coverage
	Drain wire	7 x 0.16 (0.14mm <sup>2</sup> ) AWG 26/7
<b>Jacket</b>	Material	SHF-1 LSZH polymer Red Lilac RAL 4001
	Average thickness	0.30mm
	Overall diameter	2.90mm ±0.10

### Overall jacket

<b>Overall jacket</b>	Material	SHF-1 LSZH thermoplastic polymer
	Colour	Red Lilac RAL 4001
	Average thickness	See characteristics by stock code
<b>Bend radius</b>	10 x overall diameter	

### Physical properties unaged

<b>Jacket (at 60°C)</b>	Tensile strength	>9N/mm <sup>2</sup>
	Elongation	>125%
	Heat shock test	150 °C x 1 hour - no cracks
<b>Halogen Emissions</b>	0.30% Halogen acid gases according to IEC 60754-2	

### Electrical characteristics

<b>Resistance</b>	Conductor	Ohm/Km	<144
	Shield		<140
	Insulation	M Ohm/Km	>5000
<b>Capacitance</b>	Core to core	pF/m	50 nominal
	Core to shield		100 nominal
<b>Impedance</b>	110 Ohms ±20%		
<b>Attenuation at 3 MHz</b>	7.05 dB/100m		
<b>Test voltage</b>	1000 Vdc x 1 minute OK		



# cable

## 1 pair cable 278-401-000

### Pair specifications

<b>Conductor</b>	Material	Bare ultra pure oxygen free copper wire
	Stranding	7 x 0.20mm (0.22mm <sup>2</sup> ) AWG 24/7
<b>Insulation</b>	Material	Foam skin polyolefin
	Average thickness	0.20mm
	Diameter	1.40mm ±0.10
	Colour coding	Red/black
<b>Cabling</b>	Type	Twisted pair
	Lay length	~25mm
<b>Screen</b>	Type	24µm Aluminium/polyester foil >150% coverage
	Drain wire	7 x 0.20mm (0.22mm <sup>2</sup> ) AWG 24/7
<b>Jacket</b>	Material	SHF-1 LSZH polymer Red Lilac RAL 4001
	Average thickness	0.50mm
	Overall diameter	3.90mm ±0.15

### Physical properties unaged

<b>Jacket (at 60°C)</b>	Tensile strength	>9N/mm <sup>2</sup>
	Elongation	>125%
	Heat shock test	150 °C x 1 hour - no cracks

### Electrical characteristics

<b>Resistance</b>	Conductor	Ohm/Km	<90
	Shield		<70
	Insulation	M Ohm/Km	>5000
<b>Capacitance</b>	Core to core	pF/m	50 nominal
	Core to shield		100 nominal
<b>Impedance</b>			110 Ohms ±20%
<b>Test voltage</b>			1000 Vdc x 1 minute OK

## Characteristics by stock code

Stock code	Overall diameter mm	Jacket thickness mm	Weight Kg/Km	Construction and lay up
278-401-000	3.90	0.50	16	1 pair, foil screened
278-412-070	7.50	0.75	60	Cotton fillers + 2 pairs, 100mm lay
278-414-070	9.20	1.00	85	Cotton fillers + 4 pairs, 100mm lay
278-418-070	12.20	1.20	135	Cotton fillers + 1 pair, 1st layer 7 pairs, 140mm lay
278-422-070	15.00	1.50	223	Cotton fillers + 3 pairs, 1st layer 9 pairs 100/200mm lay
278-424-070	20.00	1.50	390	Cotton fillers + 2 pairs, 1st layer 8 pairs, 2nd layer 14 pairs 180/230mm lay

- Maximum reel length 500 metres

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