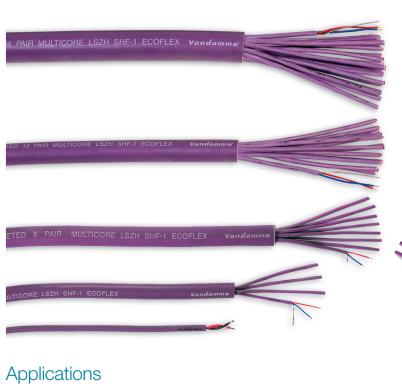


### Purple Series Digilog Ecoflex AES/Analogue installation cable LSZH



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.

- 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						
Conductor	Material	Bare ultra pure oxygen free copper wire				
	Stranding	7 x 0.16mm (0.14mm²)	7 x 0.16mm (0.14mm²) AWG 26/7			
Insulation	Material	Foam skin polyolefin				
	Average thickness	0.30mm				
	Diameter	1.10mm ±0.10				
	Colour coding	Red/Blue				
Cabling	Туре	Twisted pair				
	Lay length	~25mm				
Screen	Туре	24µm Aluminium/polyester foil >150% coverage				
	Drain wire	7 x 0.16 (0.14mm²) AWG 26/7				
Jacket	Material		SHF-1 LSZH polymer Red Lilac RAL 4001			
	Average thickness	0.30mm				
	Overall diameter	2.90mm ±0.10				
Overall jacket						
Overall jacket	Material SHF-1 LSZH thermop		astic polymer			
	Colour	Red Lilac RAL 4001				
Average thickness See characteristics by		See characteristics by	stock code			
Bend radius		10 x overall diameter				
Physical properties	unaged					
Jacket (at 60°C)	Tensile s	rength	>9N/mm²			
	Elongatio	n	>125%			
	Heat sho	Heat shock test		150 °C x 1 hour - no cracks		
Halogen Emissions 0.30% Halogen acid gases according		ng to IEC 60754-2				
Electrical characteri	stics					
Resistance	Conductor		Ohm/Km	<144		
	Shield			<140		
	Insulation		M Ohm/Km	>5000		
Capacitance	Core to core		pF/m	50 nominal		
	Core to shield			100 nominal		
Impedance		110 Ohms ±20%	110 Ohms ±20%			
Attenuation at 3 MHz			7.05 dB/100m			
Test voltage			1000 Vdc x 1 minute OK	1000 Vdc x 1 minute OK		



## 1 pair cable 278-401-000

Pair specifications				
Conductor	Material	Bare ultra pure oxygen free copper wire		
	Stranding	7 x 0.20mm (0.22mm²) AWG 24/7		
Insulation	Material	Foam skin polyolefin		
	Average thickness	0.20mm 1.40mm ±0.10		
	Diameter			
	Colour coding	Red/black		
Cabling	Туре	Twisted pair		
	Lay length	~25mm		
Screen	Туре	24µm Aluminium/polyester foil >150% coverage		
	Drain wire	7 x 0.20mm (0.22mm²) AWG 24/7		
Jacket	Material	SHF-1 LSZH polymer Red Lilac RAL 4001		
	Average thickness	0.50mm		
	Overall diameter	3.90mm ±0.15		
Physical properties unaged				
Jacket (at 60°C)	Tensile strength	>9N/mm²		
,	Elongation	>125%		
	Heat shock test	150 °C x 1 hour - no cracks		
Electrical characteristics				
Resistance	Conductor	Ohm/Km	<90	
	Shield		<70	
	Insulation	M Ohm/Km	>5000	
Capacitance	Core to core	pF/m	50 nominal	
	Core to shield		100 nominal	
Impedance		110 Ohms ±20%		
Test voltage		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

<sup>•</sup> Maximum reel length 500 metres