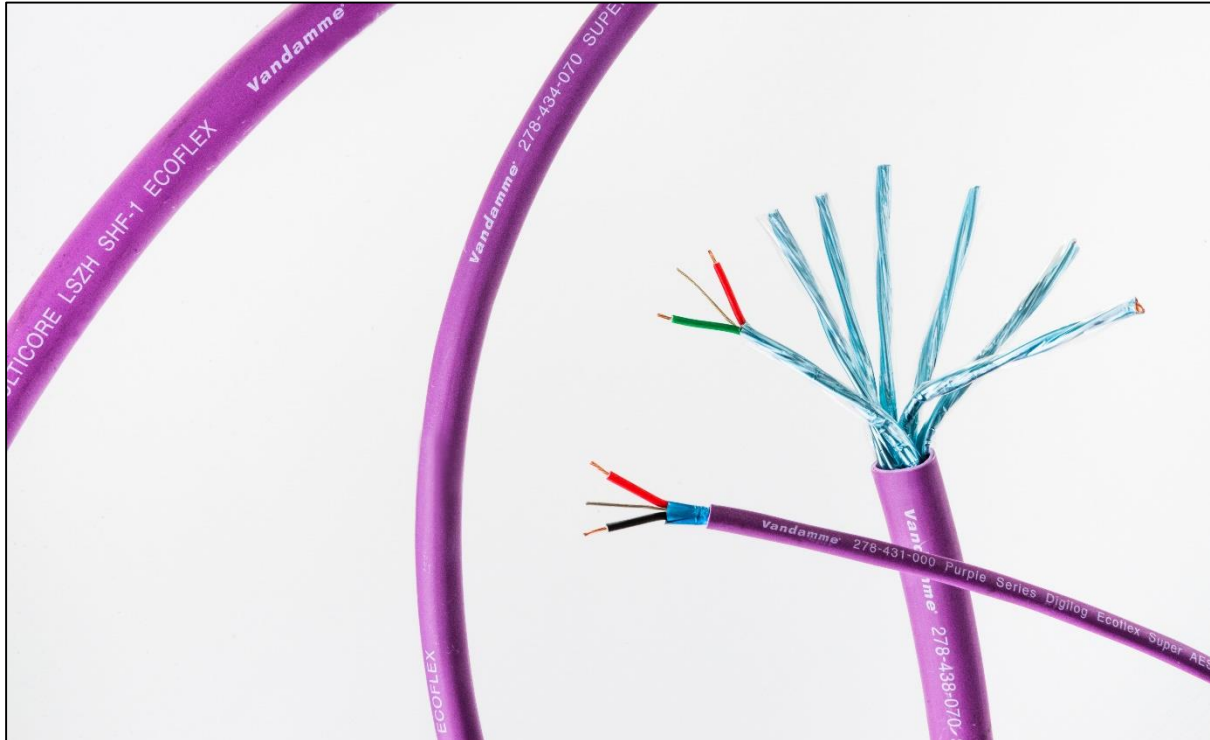











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## VAN DAMME SUPER PURPLE SERIES DIGI GRADE ENHANCED AES/ANALOGUE INSTALLATION CABLE



Van Damme Super Purple Series provides a Low Smoke Zero Halogen version of the established Van Damme Super Green Series for the installation market. Available as a 1 pair and 4 and 8 pair multicore versions this cable range provides a solution for the extended distance transmission of 96 KHz AES/EBU digital audio – over 150 metres without active equalisation. It is also suitable for long analogue audio runs and any critical balanced data signal that requires low capacitance.

KEY BENEFITS	MATERIALS	APPLICATIONS
 Digital and Analogue signals	 Oxygen Free Copper	 Recording Studios
 Low Smoke Zero Halogen	 SHF-1 LSZH Polymer	 Schools and Colleges
 Characteristic 110 Ohm impedance	 Foam skin polyethylene	 Marine Installations

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### Applications

- Long distance transmission of AES/EBU digital audio signals
- Installation in public buildings, schools and colleges, government premises and marine vessels
- Equipment rack wiring where LSZH materials have been specified
- Any 100 to 110 Ohm balanced data application such as RS422, RS485, DMX512 and timecode

### Application Notes

- 22AWG conductors for low capacitance and excellent attenuation figures
- Multicore types are foil screened pairs with polyester overwrap to keep the overall diameter to a minimum – pairs should be sleeved with PVC or heatshrink sleeving when broken out for termination
- Electrically engineered for long distance 96KHz digital audio transmission - 150 metres without equalisation is well within the cables' performance
- 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
- Ultra-pure oxygen free copper for outstanding sonic integrity

### Mechanical Specification

#### Multicores

##### Pairs

Conductor	7 x 0.25 mm bare ultra-pure oxygen-free copper
Conductor size	7 x 0.25 mm, 0.34 mm <sup>2</sup> , AWG 22/7
Insulation	Foam skin polyethylene
Insulation diameter	1.75 ± 0.10 mm
Colour Code	IEC 189-2 appendix A
Drain wire	7 x 0.16 mm tinned ultra-pure oxygen-free copper
Drain wire size	7 x 0.16 mm, 0.14 mm <sup>2</sup> , AWG 26/7
Screen	24 µm Aluminium/Polyester Foil > 100% coverage with clear polyester overwrap

##### Overall Construction

Jacket material	SHF-1 LSZH thermoplastic polymer
Colour	Red Lilac, RAL 4001
Bend Radius	15 x overall diameter
Operating temperature	-35 to +70 °C

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### 1 Pair

Conductor	7 x 0.25 mm bare ultra-pure oxygen-free copper
Conductor size	7 x 0.25 mm, 0.34 mm <sup>2</sup> , AWG 22/7
Insulation	Foam skin polyethylene, Red/Black
Insulation diameter	1.75 ± 0.10 mm
Drain wire	7 x 0.25 mm tinned ultra-pure oxygen-free copper
Drain wire size	7 x 0.25 mm, 0.34 mm <sup>2</sup> , AWG 22/7
Screen	24 µm Aluminium/Polyester Foil > 100% coverage
Jacket material	SHF-1 LSZH thermoplastic polymer
Overall diameter	4.80 ± 0.15 mm
Colour	Red Lilac RAL 4001
Bend radius	15 x overall diameter
Operating temperature	-35 to +70 °C

### Electrical Specification

Resistance	Conductor	< 59 Ohm/km
	Insulation	> 5000 MOhm/km
Capacitance	Core to core	50 pF/m
	Core to screen	100 pF/m
Impedance	1 -3 MHz	110 ± 20% Ohms
Attenuation	3 MHz	4.90 dB/100 m

### Part Numbers and Description

Part Number	Description	Overall Diameter	Max. Reel Length
278-434-070	Van Damme Super Purple Series Digilog 4 pair multicore	11.10 mm	500 m
278-438-070	Van Damme Super Purple Series Digilog 8 pair multicore	14.40 mm	500 m
278-431-000	Van Damme Super Purple Series Digilog 1 pair	4.50 mm	500 m

### 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