



THE ROUTE OF LEAST RESISTANCE

HEAR NO EVIL

## 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



Digital and Analogue signals



Low Smoke Zero Halogen



Characteristic 110 Ohm impedance

### MATERIALS



Oxygen Free Copper



SHF-1 Polymer



Foam skin polyethylene

### APPLICATIONS



Recording Studios



Schools and Colleges



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