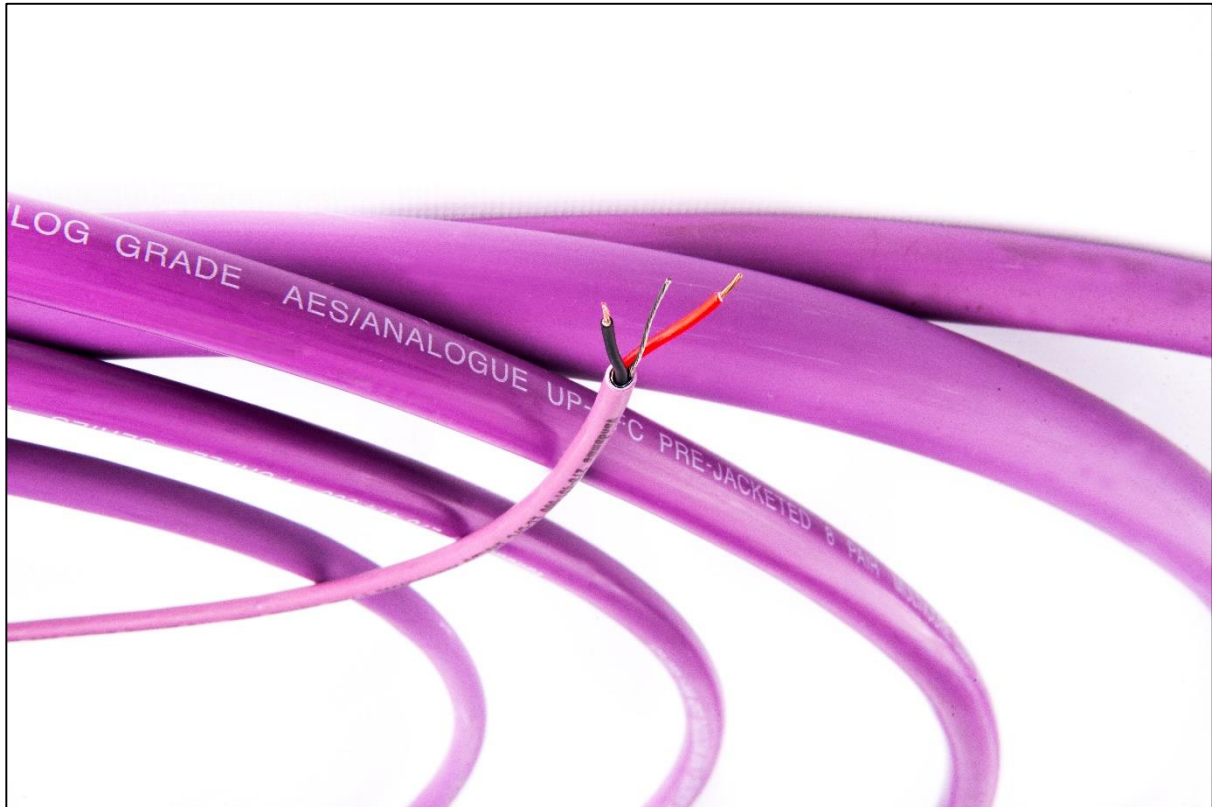


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VAN DAMME PURPLE SERIES DIGILOG ECOFLEX AES/ANALOGUE INSTALLATION CABLE LSZH



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.

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

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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 60092-360:2014 Electrical Installations in ships - Sheathing materials for shipboard power and communication cables
- 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 0.16 mm bare ultra-pure oxygen-free copper
Conductor size	7 x 0.16 mm, 0.14 mm ² , AWG 26/7
Insulation	Foam skin polyethylene, Red/Blue
Insulation diameter	1.10 ± 0.10 mm
Drain wire	7 x 0.16 mm tinned ultra-pure oxygen-free copper
Drain wire size	7 x 0.16 mm, 0.14 mm ² , AWG 26/7
Screen	24 µm Aluminium/Polyester Foil > 150% coverage
Jacket material	SHF-1 LSZH Polymer
Overall diameter	2.90 ± 0.15 mm
Colour	Red Lilac, RAL 4001

Overall Construction

Separator	Soft textile tape > 125% coverage
Jacket material	SHF-1 LSZH 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 0.20 mm bare ultra-pure oxygen-free copper
Conductor size	7 x 0.20 mm, 0.22 mm ² , AWG 24/7
Insulation	Foam skin polyethylene, Red/Black
Insulation diameter	1.40 ± 0.10 mm
Drain wire	7 x 0.20 mm tinned ultra-pure oxygen-free copper
Drain wire size	7 x 0.20 mm, 0.22 mm ² , AWG 24/7
Screen	24 µm Aluminium/Polyester Foil > 150% coverage
Jacket material	SHF-1 LSZH Polymer
Overall diameter	3.90 ± 0.15 mm
Colour	Red Lilac, RAL 4001
Bend radius	15 x overall diameter
Operating temperature	-35 to +70 °C

Electrical Specification

Multicores

Resistance	Conductor	< 144 Ohm/km
	Insulation	> 5000 MOhm/km
Capacitance	Core to core	50 pF/m
	Core to screen	100 pF/m
Impedance	1 -4 MHz	110 ± 20% Ohms
Attenuation	3 MHz	7.05 dB/100 m

1 Pair

Resistance	Conductor	< 90 Ohm/km
	Insulation	> 5000 MOhm/km
Capacitance	Core to core	40 pF/m
	Core to screen	80 pF/m
Impedance	1 -4 MHz	110 ± 20% Ohms

Part Numbers and Description

Part Number	Description	Overall Diameter	Max. Reel Length
278-412-070	Van Damme Purple Series Digilog LSZH 2 pair multicore	7.50 mm	500 m
278-414-070	Van Damme Purple Series Digilog LSZH 4 pair multicore	9.20 mm	500 m
278-418-070	Van Damme Purple Series Digilog LSZH 8 pair multicore	12.20 mm	500 m
278-422-070	Van Damme Purple Series Digilog LSZH 12 pair multicore	15.00 mm	500 m
278-424-070	Van Damme Purple Series Digilog LSZH 24 pair multicore	20.00 mm	500 m
278-401-000	Van Damme Purple Series Digilog LSZH 1 pair	3.90 mm	500 m

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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