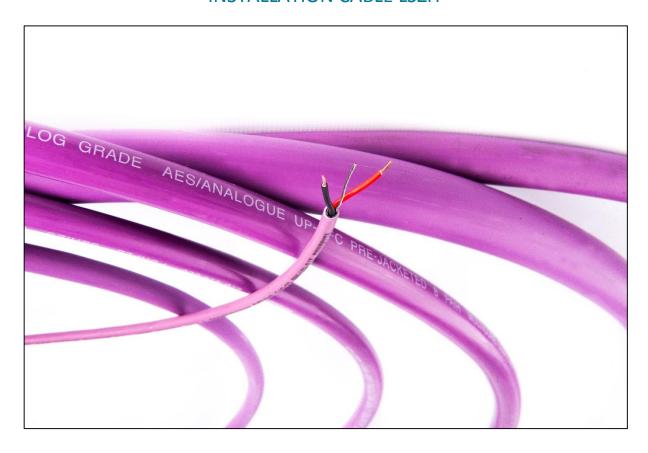
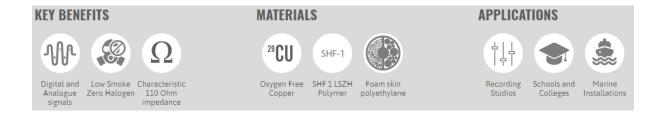


VAN DAMME PURPLE SERIES DIGILOG ECOFLEX AES/ANALOGUE INSTALLATION CABLE LSZH



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.





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 mm², AWG 26/7 Insulation Foam skin polyethylene, Red/Blue

Insulation diameter $1.10 \pm 0.10 \text{ mm}$

Drain wire 7 x 0.16 mm tinned ultra-pure oxygen-free copper

Drain wire size 7 x 0.16 mm, 0.14 mm², AWG 26/7

Screen 24 μm Aluminium/Polyester Foil > 150% coverage

 $\begin{array}{lll} \mbox{Jacket material} & \mbox{SHF-1 LSZH Polymer} \\ \mbox{Overall diameter} & 2.90 \pm 0.15 \mbox{ mm} \\ \mbox{Colour} & \mbox{Red Lilac, RAL 4001} \\ \end{array}$

Overall Construction

Separator Soft textile tape > 125% coverage

Jacket materialSHF-1 LSZH PolymerColourRed Lilac, RAL 4001Bend radius15 x overall diameter

Operating temperature -35 to +70 °C



1 Pair

Conductor 7 x 0.20 mm bare ultra-pure oxygen-free copper

Conductor size 7 x 0.20 mm, 0.22 mm², AWG 24/7 Insulation Foam skin polyethylene, Red/Black

Insulation diameter $1.40 \pm 0.10 \text{ mm}$

Drain wire 7 x 0.20 mm tinned ultra-pure oxygen-free copper

Drain wire size 7 x 0.20 mm, 0.22 mm², AWG 24/7

Screen 24 μm Aluminium/Polyester Foil > 150% coverage

 $\begin{array}{lll} \mbox{Jacket material} & \mbox{SHF-1 LSZH Polymer} \\ \mbox{Overall diameter} & 3.90 \pm 0.15 \mbox{ mm} \\ \mbox{Colour} & \mbox{Red Lilac, RAL 4001} \\ \mbox{Bend radius} & 15 \mbox{ x overall diameter} \\ \end{array}$

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	Max. Reel
		Diameter	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



Standards and Compliance

IEC 61034.2

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

Measurement of smoke density