HEAR NO EVIL

VAN DAMME DIGILOG BLACK ECOFLEX AES/ANALOGUE INSTALLATION 1 PAIR LSZH



Van Damme Digilog Black Ecoflex is a Low Smoke Zero Halogen (LSZH) jacketed 1 pair 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.



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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
- 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

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	Jet Black, RAL 9005
Bend radius	15 x overall diameter
Operating temperature	-35 to +70 ^oC

Electrical Specification

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
278-401-001	Van Damme Purple Series Digilog LSZH 1 pair	3.90 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