

Technical Document
WEB 16/2 Speaker Cable
16awg 2core LSNH Violet

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Part Number: 231011E-LSNH-VLT

Description: WEB 16/2 Speaker Cable 16awg
2core Low Smoke Non-Halogen (LSNH) Violet



Product Construction

Conductor Material	:	99.999% Oxygen Free Plain Copper
Conductor Stranding	:	16awg, 65/0.16mm
Insulation Material	:	Low Smoke Non-Halogen (LSNH)
Number of Cores	:	2
Core Colours	:	Red, Black
Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Sheath Colour	:	Violet



Mechanical Characteristics

Overall Diameter	:	6.1mm ± 0.2mm
Temperature Range	Fixed	-20°C to +70°C
	Flexing	0°C to +70°C
Bend Radius	:	15 x Overall Diameter
Weight	:	38 kg/km

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 13.3 Ω/km
Voltage Rating	:	300/300V

Power Loss by Length of Cable

Length	4Ω Speaker	8Ω Speaker	16Ω Speaker
10m	6%	3%	2%
20m	12%	6%	3%
40m	22%	12%	6%
80m	35%	22%	12%

Max. Cable Length by Allowed Power Loss*

Power Loss (dB)	4Ω Speaker	8Ω Speaker	16Ω Speaker
-0.5dB	18m	36m	71m
-1.0dB	38m	76m	151m
-2.0dB	85m	171m	342m
-3.0dB	145m	291m	581m

Power Loss (%)	4Ω Speaker	8Ω Speaker	16Ω Speaker
2.5%	3.7m	7.5m	15.0m
5.0%	7.7m	15.4m	30.7m
7.5%	11.8m	23.7m	47.3m
10%	16.2m	32.4m	64.9m

*The above is provided as a guide only. The calculations are based on the conductor resistance @20°C. Resistance and loss both increase as temperature rises. Please verify your own calculations and installation.

Certifications & Standards

Flame Retardancy	:	BS EN 60332-1-2
Low Smoke	:	BS EN 61034-2
Halogen Gas	:	BS EN 60754-1&2
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Eca to BS EN 50575:2014+A1:2016

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