

Technical Document

WEB 16/4 Speaker Cable

16awg 4core LSNH Violet

webro

Part Number: 231012E-LSNH-VLT

Description: WEB 16/4 Speaker Cable 16awg
4core 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	:	4
Core Colours	:	Red, Black, White, Green
Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Sheath Colour	:	Violet



Mechanical Characteristics

Overall Diameter	:	7.0mm ± 0.2mm
Temperature Range	Fixed	-20°C to +70°C
	Flexing	0°C to +70°C
Bend Radius	:	15 x Overall Diameter
Weight	:	57 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

CEDIA[®]

MEMBER

Publication Date: 08/09/2023

Revision Number: 2.1

Written by: GB

Authorised by: GB

Webro Cables & Connectors Ltd

Vision House, Meadow Brooks Business Park, Meadow Lane, Long Eaton, Nottingham NG10 2GD, UK
Tel: +44 (0)115 9724483 | Fax: +44 (0)115 9461230 | sales@webro.com | www.webro.com

This technical document and its information and images are intended for guidance only. Due to technical improvements, manufacturing changes or commercial factors the product may vary, and we reserve the right without notice or liability to amend the product information.