

Technical Document  
**WEB 12/4 Speaker Cable**  
**12awg 4core LSNH Violet**



**Part Number:** 231016E-LSNH-VLT  
**Description:** WEB 12/4 Speaker Cable 12awg  
 4core Low Smoke Non-Halogen (LSNH) Violet



**Product Construction**

Conductor Material : 99.999% Oxygen Free Plain Copper  
 Conductor Stranding : 12awg, 65/0.25mm  
 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 : 11.0mm ± 0.2mm  
 Temperature Range Fixed : -20°C to +70°C  
 Flexing : 0°C to +70°C  
 Bend Radius : 15 x Overall Diameter  
 Weight : 214 kg/km

**Electrical Characteristics**

Inner Conductor DC Resistance : ≤ 5.4 Ω/km  
 Voltage Rating : 300/300V

**Power Loss by Length of Cable**

Length	4Ω Speaker	8Ω Speaker	16Ω Speaker
10m	3%	1%	1%
20m	5%	3%	1%
40m	10%	5%	3%
80m	18%	10%	5%

**Max. Cable Length by Allowed Power Loss\***

Power Loss (dB)	4Ω Speaker	8Ω Speaker	16Ω Speaker
-0.5dB	43m	87m	173m
-1.0dB	92m	184m	367m
-2.0dB	207m	415m	830m
-3.0dB	353m	706m	1412m

Power Loss (%)	4Ω Speaker	8Ω Speaker	16Ω Speaker
2.5%	9.1m	18.2m	36.4m
5.0%	18.7m	37.3m	74.7m
7.5%	28.8m	57.5m	115.0m
10%	39.4m	78.8m	157.6m

\*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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