

Technical Document
WEB 16/4 Speaker Cable
16awg 4core External PE Black



Part Number: 231012F-PE-BLK
 Description: WEB 16/4 Speaker Cable 16awg
 4core External Grade PE Black



Product Construction

Conductor Material : 99.999% Oxygen Free Plain Copper
 Conductor Stranding : 16awg, 65/0.16mm
 Insulation Material : Polyvinyl Chloride (PVC)
 Number of Cores : 4
 Core Colours : Red, Black, White, Green
 Tape : Overall Water Blocking, Fleece Tape
 Sheath Material : Polyethylene (PE)
 Sheath Colour : Black



Mechanical Characteristics

Overall Diameter : 7.4mm ± 0.2mm
 Temperature Range Fixed : -20°C to +70°C
 Flexing : 0°C to +70°C
 Bend Radius : 15 x Overall Diameter
 Weight : 63 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

RoHS 3 Compliant : Yes
 REACH Compliant : Yes
 UKCA CPR Classification : Fca to BS EN 50575:2014+A1:2016



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