ONE Speaker Cable Guide



Connectivity. Assured

Speaker C	Jac Mat	ket erial	Jacket Colour					
Model	Configuration	Cross Section to scale	Spool Length metre- marked	HZSH	NL CL3	Purple	Yellow	Charcoal
ONE-SP122	12AWG (65 strands) 2 core OFC 7.5±0.2mm OD	\bigcirc	152.5m 500ft	\checkmark		~	~	2
ONE-SP142	14AWG (82 strands) 2 core OFC 7.5±0.2mm OD	0	152.5m 500ft	1		~	~	2
ONE-SP144	14AWG (82 strands) 4 core OFC 8.8±0.2mm OD		152.5m 500ft	1	1	~	~	2
ONE-SP162	16AWG (65 strands) 2 core OFC 6.0±0.2mm OD	0	305m 1000ft	√		~	~	2
ONE-SP164	16AWG (65 strands) 4 core OFC 7.0±0.2mm OD	@	152.5m 500ft	√	1	~	~	2

Internal Conductor Colours									
Model	Model Pair A Pair B								
2 core	Black, Red	-							
4 core	Black, Red	Green, White							

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- ¹ Available special order, minimums apply
- ² Coming soon
- All models in plastic spool box 340H x 265W x 335D (mm).
- 12 cartons per pallet layer, maximum 3 layers per pallet.

Speaker Cable Reference



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Selected Americ	Formulae							
Conductors	ductors 10AWG 12AWG 14		14AWG	16AWG 18AWG		d = 0.127mm × 92 ^{36-AWG}		
Cross-section (actual size)	•	٠	•	٠	•	$A = \pi \times (d_{2})^{2}$		
Diameter (mm)	2.588	2.053	1.628	1.291	1.024	For inches, substitute		
Area (mm ²)	5.261	3.309	2.081	1.309	0.823	0.127mm with 0.005in		

Note: Dimensions in above table are for solid cores. ONE-SP speaker cables use multiple strands to achieve the same cross-sectional area of conductor material. Therefore real-world stranded diameters and areas are approximately 5% and 10% larger, respectively.

ONE-SP Electrical Characteristics - Power loss by cable length

Cable		4Ω Sp	eaker		8Ω Speaker				16Ω Speaker			
Gauge	10m 32ft	20m 65ft	40m 131ft	80m 262ft	10m 32ft	20m 65ft	40m 131ft	80m 262ft	10m 32ft	20m 65ft	40m 131ft	80m 262ft
16AWG	6%	12%	22%	35%	3%	6%	12%	22%	2%	3%	6%	12%
14AWG	4%	8%	15%	26%	2%	4%	8%	15%	1%	2%	4%	8%
12AWG	3%	5%	10%	18%	1%	3%	5%	10%	<1%	1%	3%	5%

Above figures are based on copper resistivity at 20°C (68°F). Resistivity and cable power loss both increase with temperature. For example, driving a 4 Ω speaker over 80m of 16AWG cable loses 35% power (-1.9dB) at 20°C (68°F) and 39% (-2.1dB) at 75°C (167°F).

16AWG ≤ 13.7 Ω/km 14AWG ≤ 8.62 Ω/km 12AWG ≤ 5.64 Ω/km

Power loss	5%	10%	15%	20%	25%	30%	35%	40%
% to dB conversion	-0.2dB	-0.5dB	-0.7dB	-1.0dB	-1.2dB	-1.5dB	-1.9dB	-2.2dB

Compliance

Low Smoke Zero Halogen (LSZH)

Uses materials to aid human safety in the event of fire. Low smoke emission aids visibility and breathability during evacuation. Zero halogens are released when the cable is subjected to high heat sources and combustion, preventing the formation of toxic and corrosive gases. CPR Declared Performance: Eca (EN 50575:2014+A1:2016)

UL CL3

Uses materials to prevent fire propagation via the cable in the event of fire. CL3 is a general pupose standard suitable for vertical trays but **not** for more demanding situations such as risers and tunnels.