

DC-S200/400 Speaker Cables

Dual Connect DC-S200 and DC-S400 Speaker Cables are precious metal conductor stereo speaker cable sets that combine gold plated solid silver wires in a dual configuration ("Dual Connect") within a thin tubing of PTFE (Teflon®) insulation to optimize linearity for audio frequency signals.

This design provides superior sonic performance and preserves the valuable quality unchanged for years due to very high resistance to moisture, heat, UV-light, air pollution and aggressive chemicals.

The capacitance between adjacent wires is very low.

These unique features make Dual Connect DC-S200 and DC-S400 Speaker Cables an excellent choice for the most demanding speaker applications for domestic and professional power audio signal distribution.

Dual Connect Speaker Cables are supplied in lengths of 2 meters (DC-S200) and 4 meters (DC-S400) fitted with gold plated copper spade terminals.

Dual Connect Speaker Cables are available in DIY versions without terminals as DC-DIYspk200 (2 meters) and DC-DIYspk400 (4 meters).

Features

- ★ "Dual-Connect" design with gold plated solid silver conductors in dual configuration
- ★ High power transfer capacity: 5000 Watts into 4 ohms
- ★ Low conductor resistance with only 0.0033 ohms/meter
- ★ Low audio frequency attenuation of 0.03 dB/meter
- ★ Materials selected to ensure very high durability
- ★ Non-magnetic materials with very linear performance
- ★ PTFE insulation with low dissipation factor of 0.0002
- ★ Gold plated conductors and spade terminals

Typical applications

- ★ Superior-sonic-performance speaker cable
- ★ Excellent for upgrading hi-fi cabinet speakers
- ★ Ideal for upgrading hi-fi car speaker systems
- ★ Power distribution for audio power supplies
- ★ Very high quality professional sound systems
- ★ Demanding automotive and marine applications
- ★ Cables resistant to heat, UV-light and chemicals
- ★ Reference speaker cable with very high durability

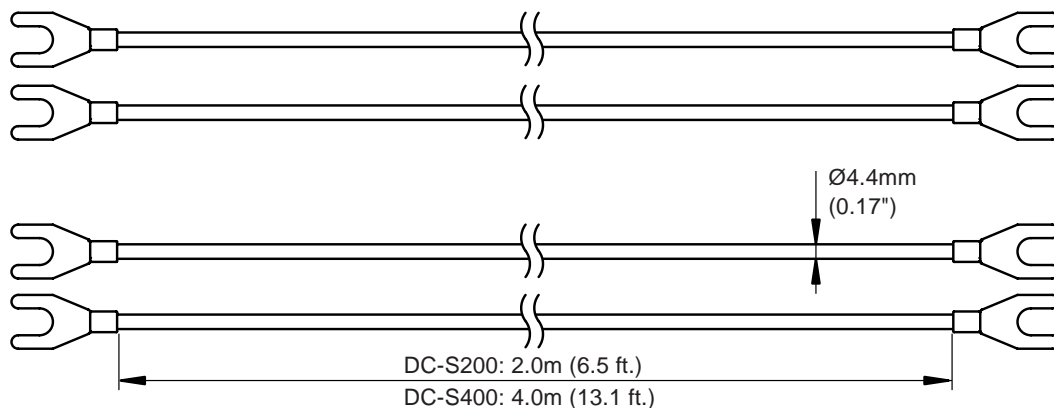


Fig. 1. Outline drawing and dimensions for DC-S200 / DC-S400 speaker cables.

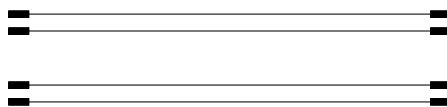


Fig. 2. Electrical circuit diagram for a stereo cable set (part no. DC-S200 or DC-S400).

CAUTION

Do not connect any Dual Connect cables or wires to the mains or other high voltage sources that may cause electrical shock.

Legal notice: **Teflon®** is a registered trade mark of DuPont Dow Elastomers

Specifications are subject to change without any further notice. Danish Audio Connect does not authorize or warrant the use of any of its products in life support devices and/or systems. Danish Audio Connect shall not be liable for any damages to connected equipment like amplifiers and loudspeakers. In order to avoid risk of electrical shock, no Dual Connect cables or wires may be connected to the mains or similar high voltage sources.

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<http://www.Dual-Connect.com>

DC-S200/400 Speaker Cables

MAXIMUM RATINGS

Notes	Symbol	Parameter	Comment	Value	Unit
1, 2	V	Voltage	AC peak voltage or DC	150	V
1, 2	I	Current	AC RMS or DC	35	A
1, 2	P _L	Power transfer capacity	R _L = 4 ohm	5,000	W
1	T _A	Ambient temperature range		-55 to +125 -67 to 257	Deg. C F

ELECTRICAL DATA

Notes	Symbol	Parameter	Comment	Value	Unit
	R	Resistance	Conductor, DC	0.0033	ohm/m
3	C _w	Capacitance	Between adjacent wires	30	pF/m
	L	Inductance	Single straight wire	1.3	uH/m
4	A	Attenuation	R _L = 4 ohms, DC to 20kHz	0.03	dB/m
	tan(d)	Dissipation factor	Insulation, f = 1MHz	0.0002	-
	E	Dielectric constant	Insulation, DC to 1MHz	2.1	-
	E _d	Dielectric strength	Insulation, f = 50Hz	Min. 20	kV/mm

MECHANICAL DATA

Notes	Symbol	Parameter	Comment	Value	Unit
	m	Weight	Both cables, 4.0/2.0m	1.0/0.5	kg
5	r _a	Bending radius	> 10 x D (D: outer wire diameter)	Min. 44 Min. 1.75	mm inch.
6	M _T	Terminal tightening torque	Screw or nut, M6	9	Nm

MATERIAL DATA

Part	Material	Comment	Properties	Value	Unit
Conductor	Silver, Ag	Dual solid wire	Purity Ag	99.99	%
			Conductor area (wire gauge)	5 10	mm ² AWG
	Gold, Au	Wire plating	Plating thickness	0.5	um
Insulation	PTFE (Teflon®)	Clear tube	Purity PFTE	100	%
			Nominal wall thickness	0.38	mm
				0.015	inch.
Terminal	Copper, Cu	Spade	Purity Cu	99.98	%
	Gold, Au	Plating	Plating thickness	0.5	um
Solder	Tin/Silver, Sn/Ag ("Silver solder")	Lead free	Percentage Sn/Ag/Cu	95.8/3.5/0.7	%
			Melting point	+217 +423	Deg. C F
Marking	Polyolefine	Red/black tubing	Max. operating temp.	+135	Deg. C
				+275	F

Notes

- Operating ratings indicate conditions for which other specifications may not apply
- Values for AC must be derated in order to compensate for cable power loss as a function of frequency, temperature, etc.
- Measuring instrument: Capacitance meter Model 938, Data Precision
- Measuring instrument: Audio Analyzer VP-7722P, Panasonic
- Avoid sharp bending as this may affect cable reliability
- Gold plating is normally not preserved at this value

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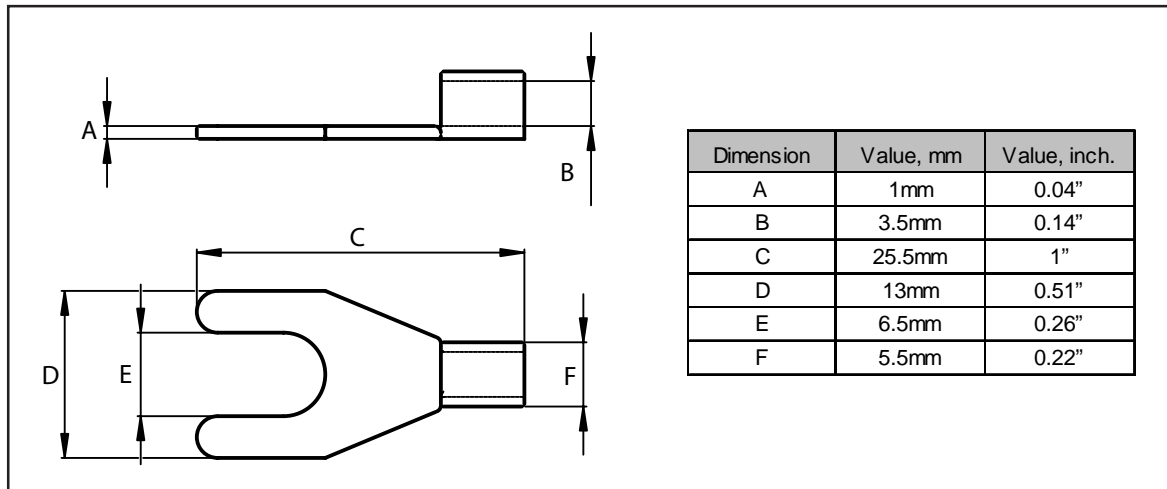


Fig. 3. Outline drawing and dimensions for DC-S200 / DC-S400 spade connectors

CAUTION

*As a safety precaution against electrical shock, no Dual Connect cables or wires may be connected to the mains or other dangerous voltage sources.
Avoid sharp bending of Dual Connect cables and wires as this may deteriorate the reliability and performance.*