Speaker Cable (Single) (4S6)

Product Image

Product Name

Speaker Cable (Single)

Model Number

4S6

A lighter gauge, very flexible speaker cable, using 4 x 20 AWG insulated conductors. Good choice for high frequency components, short cable runs or DC line cords.

- PA Systems.
- Hi-Fi Speakers.
- DC Power Lines.
- Super Flexibility, even in Sub-Zero Weather.
- Star Quad Design Reduces EMI Noise.
- Low Capacitance and Resistance.

MECHANICAL SPECIFICATIONS

Model	Std. Lng. ft. (m)	Wt Std. Lng. lbs (kgs)	Nom. O.D. in. (mm)	PVC Jacket Nom. Thick. in. (mm)	Brittle Point F° (C°)	No. of Cond.	Insul. Type* Thick mil	Cond-AWG (Qty./mil) Cross Sec. Area mil.^{2} Twin Cond. AWG**	Pitch of Quad in. (mm)	Shield Cover-age
4S6	328 (100) 656 (200)	24 (11)	.252 (6.4)	.032 (0.8)	-56 (-49)	4 RED CLR RED WHT CLR WHT	PE 19.7	AC-#20 (20/7.09) 791 #17	<1.78 <45	-

*Dielectric Strength = 500V AC/1min. Insulation Resistance/3Mft = >1000M ohm.

**Effective AWG of combined twin conductors.

ELECTRICAL PERFORMANCE/QUAD WIRED

Model	Cond. D.C.R. ohm/1000ft (ohm/100m)	Shield D.C.R. ohm/1000ft (ohm/100m)	Nom. Cap. *** pF/m	Nom. Cap. † pF/m	Nom. Imp. ohm	Nom. Atten. V/1000ft (V/100m)	Group Delay Time nS/ft (nS/m)
4S6	11.4 (3.7)	-	125	-	-	-	-

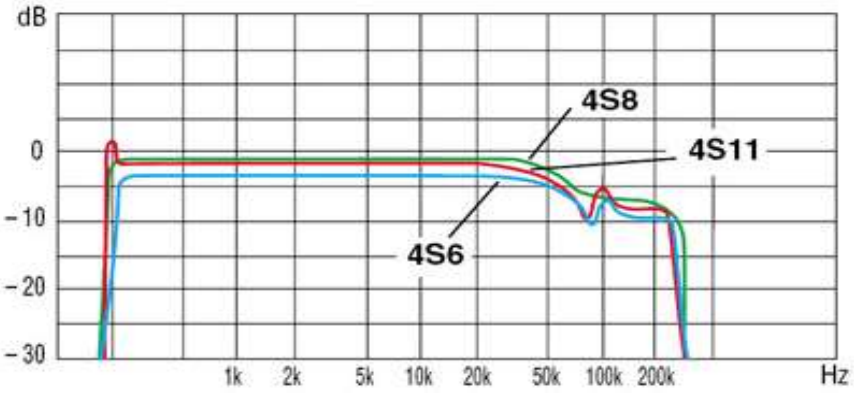
**Capacitance between twin Red and twin White conductors.

†Capacitance between conductors to shield.

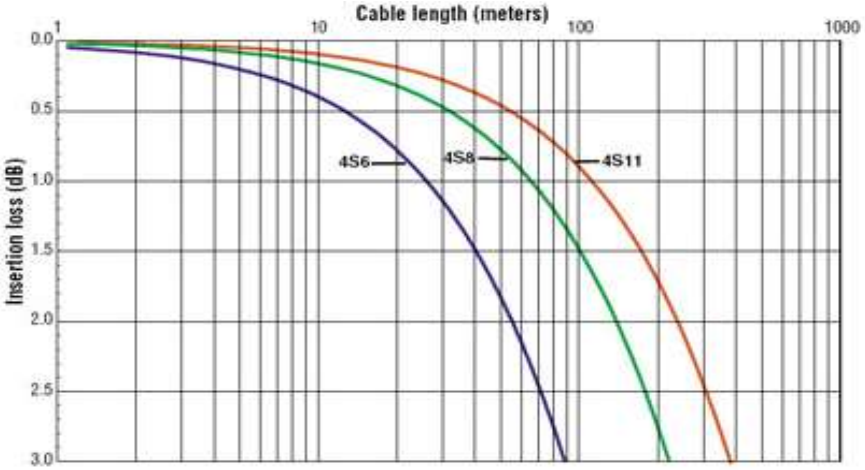
COLORS AVAILABLE

Model	Black	Blue	Brown	Gray	Green	Orange	Purple	Red	White	Yellow
4S6	[+]	[o]	- -	[+]	- -	- -	- -	[o]	- -	- -

[+]=Standard Color, [o]=Available Color, "- -"=n/a



Frequency Responce



Insertion Loss

DAMPING FACTOR: *Always try to keep speaker cables as short as possible and select cable models that offer a higher damping factor: 20-50 for music (i.e. concert sound) and 10-20 for speech (i.e. sport stadiums).*

The greater the damping factor (DF), the better the ability to control speaker excursion to create sharp, clear quality in the low end frequency range.

$$\text{Damping Factor} = \frac{\text{speaker impedance}}{\text{power amp. output impedance} + \text{speaker cable cond. resistance}}$$

Values calculated assuming power amplifier output at 0.05Ω

Model	Pair cond. resist. (Ω/100m) & cross-sec (mm²)		Cond. resist. (Ω/100m) for return path	Cable length/damping factor DF=20	DF=50
4S6	1.87/1.0mm² AWG	17	3.7	9.5m	3.0m
4S8	0.75/2.5mm² AWG	14	1.5	23.3	7.3
4S11	0.43/4.3mm² AWG	11	0.87	40.2	12.6

As the formula to the left shows, a higher conductor resistance causes a lower damping factor, which prevents even top quality power amps from performing at peak optimum levels.

Phone: 973-837-0070 Fax: 973-837-0080