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▶ Speaker Cable (Single) 4-Conductor Speaker Cable (4S11)



Product Image

Product Name
Speaker Cable (Single) 4-Conductor Speaker Cable
 Model Number
4S11

Recommended for long runs and low end Power Amplifier sub-woofer systems. Heavy duty 4 x 14 AWG conductors.

- 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
4S11	328 (100) 656 (200)	70 (32)	.421 (10.7)	.047 (1.2)	-56 (-49)	4 RED CLR RED WHT CLR WHT	PE 27.6	AC-#14 (41/10.24) 3379 #11	<4.73 <120	-

*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)
4S11	2.6 (0.9)	-	146	-	-	-	-

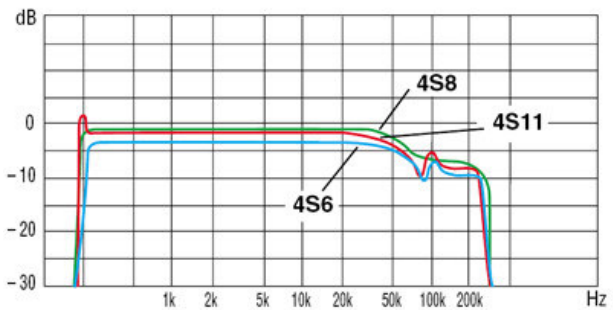
***Capacitance between twin Red and twin White conductors.

†Capacitance between conductors to shield.

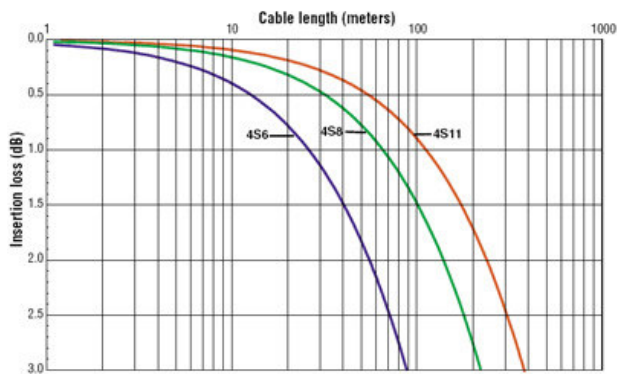
COLORS AVAILABLE

Model	Black	Blue	Brown	Gray	Green	Orange	Purple	Red	White	Yellow
4S11	[o]	--	--	[+]	--	--	--	--	--	--

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



Frequency Response



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.

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

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.

Values calculated assuming power amplifier output at 0.05 ω

Model	Pair cond. resist. (ω /100m) & cross-sec. (mm ²)	Cond. resist. (ω /100m) for return path	Cable length/damping factor	
			DF=20	DF=50
4S6	1.87/1.0mm ² AWG 17	3.7	9.5m	3.0m
4S8	0.75/2.5mm ² AWG 14	1.5	23.3	7.3
4S11	0.43/4.3mm ² AWG 11	0.87	40.2	12.6