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.

CANARE

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.

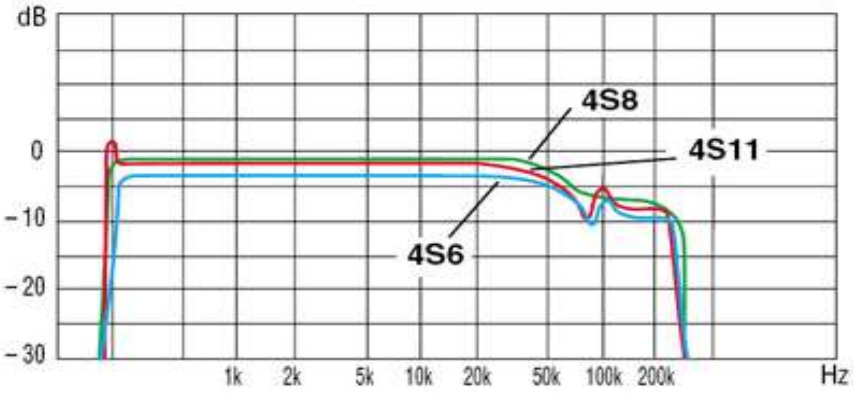
ELECTRICAL PERFORMANCE/QUAD WIRED							
Model	Cond. D.C.R. ohm/1000ft (ohm/100m)	Shield D.C.R. ohm/1000ft (ohm/100m)	Nom. Cap. *** pF/m	Nom. Cap. † pF/m	Nom. Imp. ohm	Nom. Atten. V/1000ft (V/100m)	Group Delay Time nS/ft (nS/m)
4S11	2.6 (0.9)	-	146	-	-	-	-

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

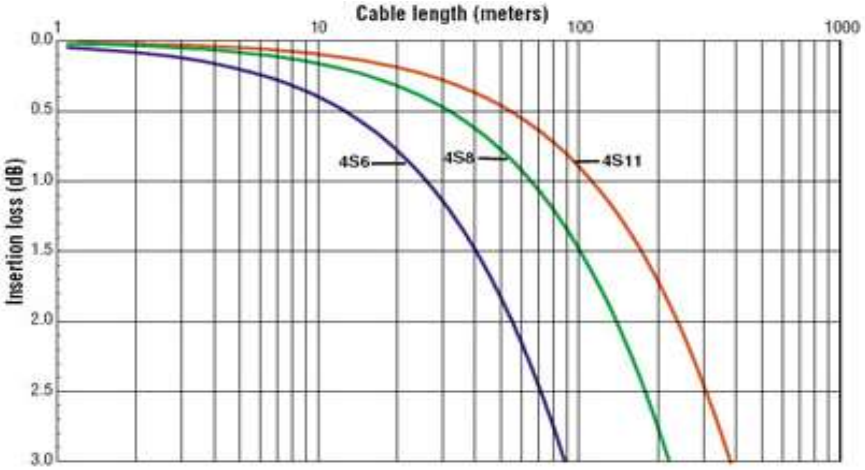
†Capacitance between conductors to shield.

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

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



Frequency 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.

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