Multicore Speaker Cable

Ideal for multistage use in halls and outdoor events.

Key Features and Benefits

- Eight-core speaker cable.
- Ideal for use with a line array speaker.
- Oxygen-free copper conductors.

For inquiries about this products

Multicore Speaker Cable

Tech Data | Downloads

Multicore Speaker Cable

Type	Model	Sales units	Nom. O.D.	Weight	Composition			Electrical characteristics	
					No. of cond.	Cross sec. area and cond. comp.	Cond. O.D.	Cond. DCR	Nom. capacitance*
		m	mm	kg/100m		mm^2 /(AWG) Q'ty/mm	mm	ohm/100m	pF/m
 Jacket color: BLK	8S15G	100	14.9	33.0	8	2.49(14) 98/0.18(OFC)	3.26	0.7	51

Insulation: polyethylene, Jacket: PVC, Dielectric strength: 500V AC/min.
*Capacitance between adjacent conductors

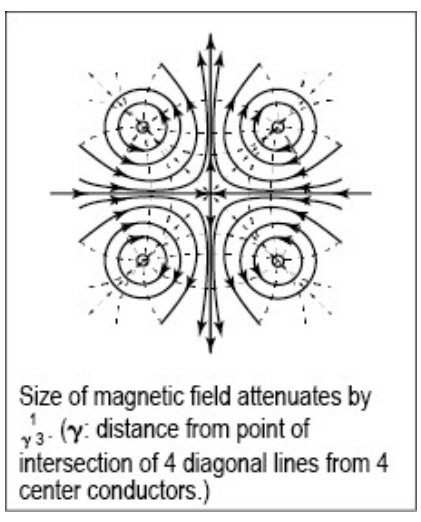
Key Features and Benefits / 8S15G

- Eight-core speaker cable ideally suited for use with Neutrik speaKON NL8 and a line array speaker.
- Oxygen-free copper (OFC, JIS H3510) conductors.

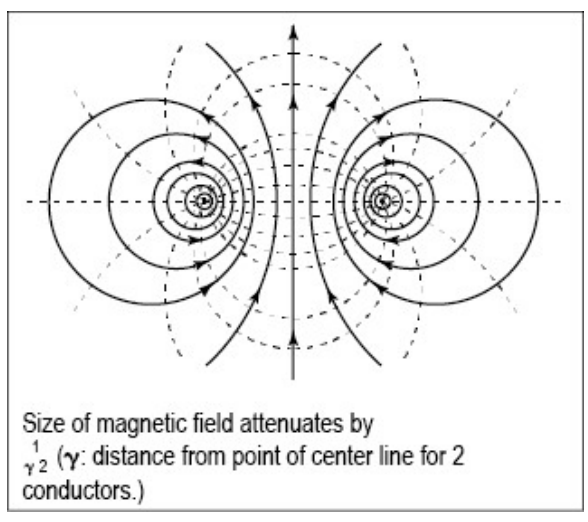
Technical Note

Four-conductor Configuration Minimizes Noise

Speaker cable must accommodate relatively high signal levels, typically tens to hundreds of watts of RMS power. Electromagnetic interference (EMI) can radiate from these speaker lines directly into adjacent low voltage cables (i.e. microphone, video, lines, etc.). Canare solves this problem by using a 4-conductor “Star Quad” configuration in all of our 4S-series speaker cables. Because every conductor is located the same distance from center, the opposing magnetic fields are cancelled out. Attenuation of magnetic field radiation is superior when compared to a standard 2-conductor speaker wire.



Four-conductor cable



Two-conductor cable

Selecting the Right Speaker Cable

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. connect 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

$$\text{damping factor} = \frac{\text{speaker impedance}}{\text{power amp. output impedance} + \text{cable cond. resist. for total loop}}$$

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

Speaker Cable Length obtained from the Damping Factor (reference)

Model	Cross-sec. Area	Cond. Resist.	Cond. Resist. for Total Loop	Cable Length (m)	
	mm2 /AWG	ohm/100m	ohm/m	DF = 20	DF = 50
4S6(G)	1.02/17 (pair)	1.85	0.037	9.5	3.0
4S8(G)	2.52/14 (pair)	0.75	0.015	23.3	7.3
4S11(G)	4.36/11 (pair)	0.45	0.009	38.9	12.2
4S10F(G)	3.50/15 (pair)	0.55	0.011	31.8	10.0
4S12F(G)	5.62/13 (pair)	0.35	0.007	50.0	15.7
4S14F(G)	8.00/12 (pair)	0.25	0.005	70.0	22.0
4S18F(G)	14.16/9 (pair)	0.15	0.003	116.7	36.7
S410-*P	2.00/18 (pair)	0.95	0.019	18.4	5.8
2S7F(G)	1.27/16	1.5	0.030	11.7	3.7
2S9F(G)	2.18/14	0.9	0.018	19.4	6.1
2S11F(G)	3.62/12	0.5	0.010	35.0	11.0
2S14F(G)	5.63/10	0.3	0.006	58.3	18.3
2S15G	2.49/14	0.7	0.014	25.0	7.9

Conditions: Speaker impedance = 8 ohm, Power amplifier output impedance = 0.05 ohm

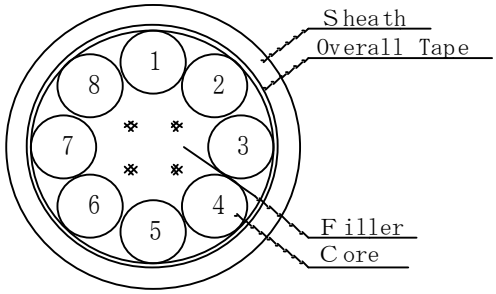
CABLE SPECIFICATION

Canare Electric Co.,Ltd.

Model	８Ｓ１５Ｇ	SAA364	Ver1.1
Applications	8 Core Speaker Cable		

Physical Characteristics		Dimensions	Specifications		Remarks
No. of Cond.			8		
Conductor	Structure	mm/qty (mil/)	AO.18/98	(7.09/)	Oxygen-free copper(OFC, JIS H3510)
	Nom.Cross Section Area	mm² (mil□)	2.49	(3859.5)	14AWG
	Outer Diameter	mm (mil)	2.06	(81.10)	
Insulation	Type		PE		Color:Red,Red-Wht,Blu,Blu-Wht,
	Thickness	mm (mil)	0.60	(23.62)	Yel,Yel-Wht,Grn,Grn-Wht
	Outer Diameter	mm (Inch)	3.26	(0.128)	
Pair/Quad Strand	Pitch	mm (Inch)	<= 230.0	(<=9.06)	
Wrap Tape	Thickness	mm (mil)	0.05		
Jacket	Type		PVC		Color:Black
	Thickness	mm (mil)	1.5	(59.06)	Custom colors available.
	Overall Diameter	mm (Inch)	14.9	(0.59)	
					Brittle Temp. -20°C(-4°F)
	Marking		Speaker Cable 8S15G CANARE CABLE <Year code> MADE IN JAPAN		
Weight		kg/100m(lbs/1000ft)	33.0	(221.7)	

Cable Cross Section



Color of the Insulation

1	2	3	4
Red	Red-White	Blue	Blue-White
5	6	7	8
Yellow	Yellow-White	Green	Green-White

Electrical Characteristics (Nominal)		Dimensions	Specifications		Remarks
Rated Voltage		V	AC 60		
Rated Current			—		
D.C.Resistance	Conductor	Ω/100m (/1000ft)	<= 0.7	(<=2.3)	
	Shield Conductor	Ω/100m (/1000ft)	—		
Voltage Withstanding	Min.Breakdown Voltage.	VAC·1min	500	(500)	
Insulation Resistance	Between Conductors	MΩ·km (·3000ft)	>= 1000	(>=1000)	
Char.Impedance		Ω at 10MHz	—		
Capacitance	Between Conductors	pF/m (pF/ft)	—		

Mechanical Characteristics (Nominal)		Dimensions	Specifications	Remarks
Tensile Strength	Jacket	MPa	>= 11.0	
		%	>= 260	

Environment Characteristics	Specifications	Remarks
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS-C3005.

Note: Testing must be performed under standard conditions set down in "JIS-C0010 General Environmental Tesing Rules(Electric/Electronics)."

Standard Conditions: Unless otherwise specified, all tests and measurements should be performed within a normal temperature range of 15-35℃, a relative humidity of 25-75%, and an atmospheric pressure of 86-106kPa.