CANARE

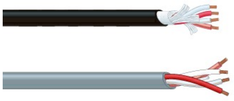
Speaker Cables (Single)

Four-conductor configuration minimizes noise and polyethylene insulation reduces induction rate to boost frequency characteristics

Key Features and Benefits

- 4-conductor style construction.
- Star Quad design reduces EMI noise.
- Low capacitance and resistance.

For inquiries about this products



Speaker Cables (Single)

Tech Data | Downloads

4-conductor Speaker Cable

Type	Model	Pair cross-sec.	Sales units	Nom. O.D.	Weight	Composition				Electrical characteristics	
						No. of cond.	Cross sec. area (AWG) mm² /(AWG)	Cond. comp Q'ty/mm	Twist pitch	Cond. DCR	Nom. capacitance*
		mm²	m	mm	kg/100m				mm	ohm/100m	pF/m
 Jacket color for 4S6: Gry Blk Red Blue Crm Wht 4S8, 4S11, 4S6G: Gry Blk 4S8G, 4S11G: Gry	4S6	1.0	100 200 400	6.4	5.4	4	0.51(20)	20/0.18A	45	3.7	125
	4S8	2.5		8.3	9.5	4	1.27(16)	50/0.18A	70	1.5	145
	4S11	4.3		10.7	16	4	2.18(14)	41/0.26A	100	0.9	146
	4S6G	1.0		6.4	5.4	4	0.51(20)	20/0.18(OFC)	45	3.7	145
	4S8G	2.5		8.3	9.5	4	1.27(16)	50/0.18(OFC)	70	1.5	145
	4S11G	4.3		10.7	16	4	2.18(14)	41/0.26(OFC)	100	0.9	146

Insulation: polyethylene (red, translucent red, white, translucent white), Jacket: PVC, Dielectric strength: 500V AC/min.
*Capacitance between conductors

Key Features and Benefits / 4S6, 4S8, 4S11

- High-performance PVC jacket, resistant to bending and twisting.
- 4S6 designed to fit snugly with Cannon XLR.

Key Features and Benefits / 4S6G, 4S8G, 4S11G

- The G versions feature oxygen-free copper (OFC, JIS H3510) conductors.

4-conductor Speaker Cable for Fixed Installation

Type	Model	Pair cross-sec.	Sales units	Nom. O.D.	Weight	Composition				Electrical characteristics	
						No. of cond.	Cross sec. area (AWG) mm² /(AWG)	Cond. comp Q'ty/mm	Twist pitch	Cond. DCR	Nom. capacitance*
		mm²	m	mm	kg/100m				mm	ohm/100m	pF/m
 Jacket color for 4S10F, 4S12F, 4S14F, 4S18F: Gry Blk 4S10FG, 4S12FG: Gry	4S10F	3.5	100 200 400 1000	9.6	15	4	1.75(15)	33/0.26A	100	1.1	144
	4S12F	5.6		11.6	22	4	2.81(13)	35/0.32A	120	0.7	152
	4S14F	8.0		14.0	32	4	4.02(12)	50/0.32A	120	0.5	-
	4S18F	14.2		17.5	53	4	7.08(9)	88/0.32A	150	0.3	-
	4S10FG	3.5		9.6	15	4	1.75(15)	33/0.26(OFC)	100	1.1	144
	4S12FG	5.6		11.6	22	4	2.8(13)	35/0.32(OFC)	120	0.7	152

Insulation: polyethylene (red, translucent red, white, translucent white), Jacket: PVC, Dielectric strength: 500V AC/min.
*Capacitance between conductors.

Key Features and Benefits / 4S10F, 4S12F, 4S14F, 4S18F

- Special supple jacket designed for use in building conduits

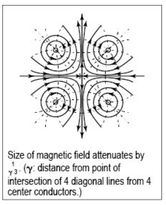
Key Features and Benefits / 4S10FG, 4S12FG

- The G versions feature oxygen-free copper (OFC, JIS H3510) conductors.

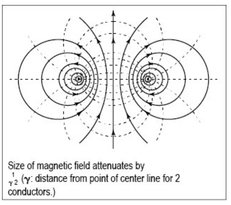
Technical Note

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

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

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

Product Specification

(4S6)

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of the Loud Speaker cable.

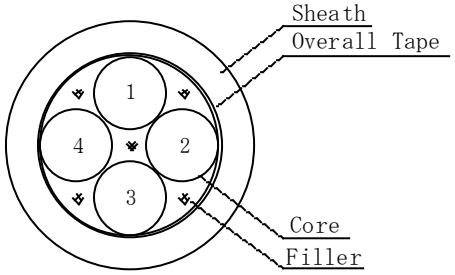
2. **General Specifications**

(1) Product Name Speaker Cable

(2) Model Name 4S6

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	20/0.18A	Annealed Copper
		Nom. Cross Section Area(mm^2)	0.51	20AWG
		Outer Diameter (mm)	0.93	
	Insulation	Thickness (mm)	0.50	Polyethylene
		Outer Diameter (mm)	1.93	
Strand		Pitch (mm)	45	Quad
Filler		Material	Cotton	
Overall Tape		Thickness (mm)	0.05	Paper Tape
		Outer Diameter (mm)	4.8	
Sheath		Thickness (mm)	0.8	PVC
		Color	Gry, Blk, Red, Blu, Wht, Crm. Custom colors available	
		Marking	Speaker Cable 4S6 CANARE <Year> MADE IN JAPAN	
Outer Diameter			6.4	

(4) Weight Approx. 5.4 kg／100m

(5) Package 100m, 200m : Spool

400m : Wooden Spool

Over 470m : Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -50～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 37.5Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 11.0 Mpa	JIS C3005
	Elongation	>= 260 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S8)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

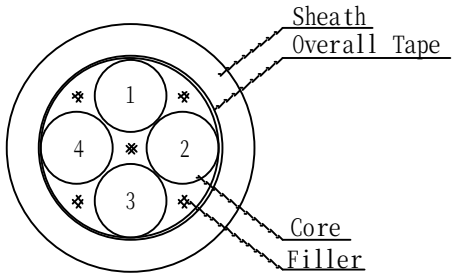
2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S8

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	50/0.18A	Annealed Copper 16AWG
		Nom. Cross Section Area(mm^2)	1.27	
		Outer Diameter (mm)	1.47	
	Insulation	Thickness (mm)	0.51	Polyethylene
		Outer Diameter (mm)	2.49	
Strand		Pitch (mm)	70	Quad
Filler		Material	Cotton	
Overall Tape		Thickness (mm)	0.05	Paper Tape
		Outer Diameter (mm)	6.2	
Sheath		Thickness (mm)	1.1	PVC
		Color	Grey, Black Custom colors available	
		Marking	Speaker Cable 4S8 CANARE <Year> MADE IN JAPAN	
Outer Diameter			8.3	

(4) Weight Approx. 9.5 kg／100m

(5) Package 100m：Spool

200m：Wooden spool

Over 270m：Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -50～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 14.9Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 11.0 Mpa	JIS C3005
	Elongation	>= 260 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S11)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

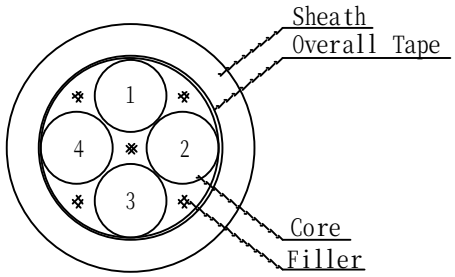
2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S11

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	41/0.26A	Annealed Copper 14AWG
		Nom. Cross Section Area(mm^2)	2.18	
		Outer Diameter (mm)	1.95	
	Insulation	Thickness (mm)	0.71	Polyethylene
		Outer Diameter (mm)	3.37	
Strand		Pitch (mm)	100	Quad
Filler		Material	Cotton	
Overall Tape		Thickness (mm)	0.06	Paper Tape
		Outer Diameter (mm)	8.3	
Sheath		Thickness (mm)	1.2	PVC
		Color	Grey, Black Custom colors available	
		Marking	Speaker Cable 4S11 CANARE <Year> MADE IN JAPAN	
Outer Diameter			10.7	

(4) Weight Approx. 16 kg／100m

(5) Package 100m：Spool

Over 160m：Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -50～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 8.7Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 11.0 Mpa	JIS C3005
	Elongation	>= 260 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S6G)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

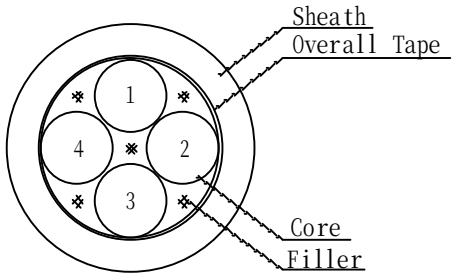
2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S6G

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	20/0.18	Oxygen Free Copper 20AWG
		Nom. Cross Section Area(mm^2)	0.51	
		Outer Diameter (mm)	0.93	
	Insulation	Thickness (mm)	0.50	Polyethylene
		Outer Diameter (mm)	1.93	
Strand		Pitch (mm)	45	Quad
Filler		Material	Cotton	
Overall Tape		Thickness (mm)	0.05	Paper Tape
		Outer Diameter (mm)	4.8	
Sheath		Thickness (mm)	0.8	PVC
		Color	Grey, Black Custom colors available	
		Marking	Speaker Cable 4S8G CANARE <Year> MADE IN JAPAN	
Outer Diameter			6.4	

(4) Weight Approx. 5.4kg／100m

(5) Package 100m,200m：Spool

400m：Wooden Spool

Over 470m：Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -50～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 36.8Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 11.0 Mpa	JIS C3005
	Elongation	>= 260 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S8G)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

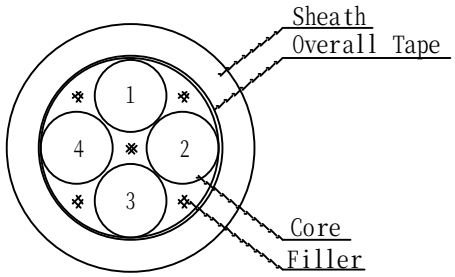
2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S8G

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	50/0.18	Oxygen Free Copper 16AWG
		Nom. Cross Section Area(mm^2)	1.27	
		Outer Diameter (mm)	1.47	
	Insulation	Thickness (mm)	0.51	Polyethylene
		Outer Diameter (mm)	2.49	
Strand		Pitch (mm)	70	Quad
Filler		Material	Cotton	
Overall Tape		Thickness (mm)	0.05	Paper Tape
		Outer Diameter (mm)	6.2	
Sheath		Thickness (mm)	1.1	PVC
		Color	Grey Custom colors available	
		Marking	Speaker Cable 4S8G CANARE <Year> MADE IN JAPAN	
Outer Diameter			8.3	

(4) Weight Approx. 9.5kg／100m

(5) Package 100m：Spool

200m：Wooden Spool

Over 270m：Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -50～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 14.6Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 11.0 Mpa	JIS C3005
	Elongation	>= 260 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S11G) Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

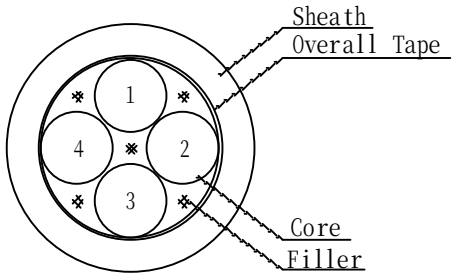
2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S11G

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	41/0.26	Oxygen Free Copper 14AWG
		Nom. Cross Section Area(mm^2)	2.18	
		Outer Diameter (mm)	1.95	
	Insulation	Thickness (mm)	0.71	Polyethylene
		Outer Diameter (mm)	3.37	
Strand		Pitch (mm)	100	Quad
Filler		Material	Cotton	—
Overall Tape		Thickness (mm)	0.06	Paper Tape
		Outer Diameter (mm)	8.3	
Sheath		Thickness (mm)	1.2	PVC
		Color	Grey Custom colors available	
		Marking	Speaker Cable 4S11G CANARE <Year> MADE IN JAPAN	
Outer Diameter			10.7	

(4) Weight Approx. 16 kg／100m

(5) Package 100m : Spool

Over 160m : Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -50～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 8.6Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 11.0 Mpa	JIS C3005
	Elongation	>= 260 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S10F)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

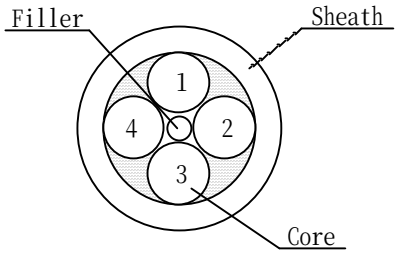
2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S10F

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	33/0.26A	Annealed Copper 15AWG
		Nom. Cross Section Area(mm^2)	1.75	
		Outer Diameter (mm)	1.74	
	Insulation	Thickness (mm)	0.63	Polyethylene
		Outer Diameter (mm)	3.00	
Strand		Pitch (mm)	100	Quad
Filler		Material	PE	
Sheath		Thickness (mm)	1.2	PVC
		Color	Grey, Black Custom colors available	
		Marking	Speaker Cable 4S10F CANARE <Year> MADE IN JAPAN	
Outer Diameter			9.6	

(4) Weight Approx. 15 kg／100m

(5) Package 100m : Spool

200m : Wooden spool

Over 300m : Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -20～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 10.8Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 10.0 Mpa	JIS C3005
	Elongation	>= 190 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S12F)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

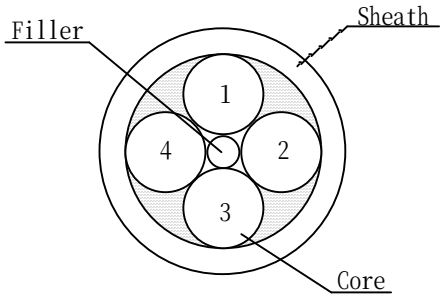
2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S12F

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	35/0.32A	Annealed Copper 13AWG
		Nom. Cross Section Area(mm^2)	2.81	
		Outer Diameter (mm)	2.20	
	Insulation	Thickness (mm)	0.80	Polyethylene
		Outer Diameter (mm)	3.80	
Strand		Pitch (mm)	120	Quad
Filler		Material	PE	
Sheath		Thickness (mm)	1.2	PVC
		Color	Grey, Black Custom colors available	
		Marking	Speaker Cable 4S12F CANARE <Year> MADE IN JAPAN	
Outer Diameter			11.6	

(4) Weight Approx. 22 kg／100m

(5) Package 100m：Spool

Over 200m：Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -20～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 6.6Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 10.0 Mpa	JIS C3005
	Elongation	>= 190 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S14F)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

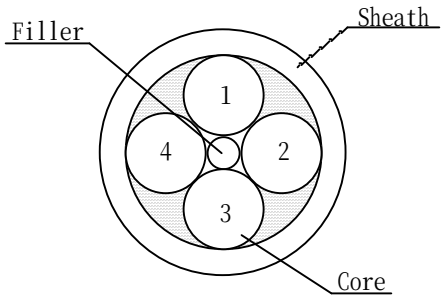
2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S14F

(3) Construction and Appearance As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	50/0.32A	Annealed Copper 12AWG
		Nom. Cross Section Area(mm^2)	4.02	
		Outer Diameter (mm)	2.61	
	Insulation	Thickness (mm)	0.98	Polyethylene
		Outer Diameter (mm)	4.57	
Strand		Pitch (mm)	120	Quad
Filler		Material	PE	
Sheath		Thickness (mm)	1.5	PVC
		Color	Grey, Black Custom colors available	
		Marking	Speaker Cable 4S14F CANARE <Year> MADE IN JAPAN	
Outer Diameter			14.0	

(4) Weight Approx. 32 kg／100m

(5) Package 100m：Coil

Over 110m：Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -20～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 4.7Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 10.0 Mpa	JIS C3005
	Elongation	>= 190 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

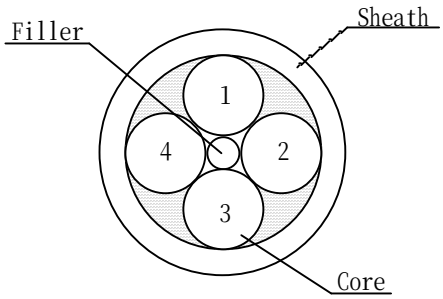
Product Specification

(4S18F)

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of the Loud Speaker cable.
2. **General Specifications**
   - **(1) Product Name** Speaker Cable
   - **(2) Model Name** 4S18F
   - **(3) Construction and Appearance** As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	88/0.32A	Annealed Copper 9AWG
		Nom. Cross Section Area(mm^2)	7.08	
		Outer Diameter (mm)	3.47	
	Insulation	Thickness (mm)	1.27	Polyethylene
		Outer Diameter (mm)	6.01	
Strand		Pitch (mm)	150	Quad
Filler		Material	PE	
Sheath		Thickness (mm)	1.5	PVC
		Color	Grey, Black Custom colors available	
		Marking	Speaker Cable 4S18F CANARE <Year> MADE IN JAPAN	
Outer Diameter			17.5	

- **(4) Weight** Approx. 53 kg／100m
- **(5) Package** Over 45m：Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -20～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 2.7Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 10.0 Mpa	JIS C3005
	Elongation	>= 190 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.

Product Specification

(4S10FG)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S10FG

(3) Construction and Appearance As shown in Fig.1 and Table 1

Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Fig. 1

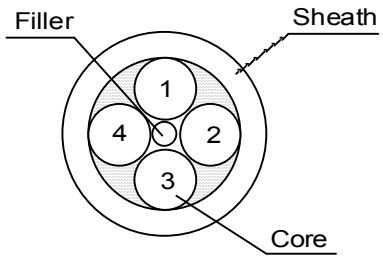


Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Conductor	Construction (qty/mm)	33/0.26	Oxygen Free Copper 15AWG
		Nom. Cross Section Area (mm^2)	1.75	
		Outer Diameter (mm)	1.74	
	Insulation	Thickness (mm)	0.63	Polyethylene
		Outer Diameter (mm)	3.00	
Strand		Pitch (mm)	100	Quad
Filler		Material	PE	
Sheath		Thickness (mm)	1.2	PVC
		Color	Gray Custom colors available	
		Marking	Speaker Cable 4S10FG CANARE <Year code> MADE IN JAPAN	
Outer Diameter			9.6	

(4) Weight Approx. 15kg / 100m

(5) Package 100m, 200m : Coil

Over 210m : Wooden reel

3. Rating, Standard

(1) Rated Voltage AC 60Vrms

(2) Temperature Range -20 ~ +60°C

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 10.6 Ω/km (20°C)	JIS C 3005
Insulation Resistance	>= 1000 MΩ·km	JIS C 3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C 3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 10.0 Mpa	JIS C 3005
	Elongation	>= 190 %	JIS C 3005

6. Environment Characteristics

Item	Standard Value	Test Method
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C 3005.

Note: Testing must be performed under standard conditions set down in “JIS C 60068-1 General Environmental Testing Rules(Electric/Electronics).”

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

Product Specification

(4S12FG)

Canare Electric Co., Ltd

1. Scope This product specification covers the performance of the Loud Speaker cable.

2. General Specifications

(1) Product Name Speaker Cable

(2) Model Name 4S12FG

(3) Construction and Appearance As shown in Fig.1 and Table 1

Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Fig. 1

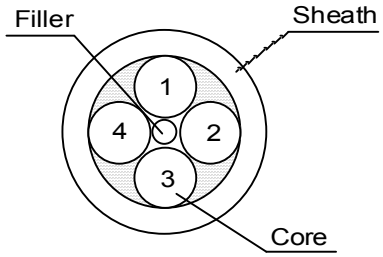


Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Conductor	Construction (qty/mm)	35/0.32	Oxygen Free Copper 13AWG
		Nom. Cross Section Area (mm^2)	2.81	
		Outer Diameter (mm)	2.20	
	Insulation	Thickness (mm)	0.80	Polyethylene
		Outer Diameter (mm)	3.80	
Strand		Pitch (mm)	120	Quad
Filler		Material	PE	
Sheath		Thickness (mm)	1.2	PVC
		Color	Gray Custom colors available	
		Marking	Speaker Cable 4S12FG CANARE <Year code> MADE IN JAPAN	
Outer Diameter			11.6	

(4) Weight Approx. 22kg / 100m

(5) Package 100m : Coil

Over 130m : Wooden reel

3. Rating, Standard

(1) Rated Voltage AC 60Vrms

(2) Temperature Range -20 ~ +60°C

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 6.5 Ω/km (20°C)	JIS C 3005
Insulation Resistance	>= 1000 MΩ·km	JIS C 3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C 3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 10.0 Mpa	JIS C 3005
	Elongation	>= 190 %	JIS C 3005

6. Environment Characteristics

Item	Standard Value	Test Method
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C 3005.

Note: Testing must be performed under standard conditions set down in “JIS C 60068-1 General Environmental Testing Rules(Electric/Electronics).”

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

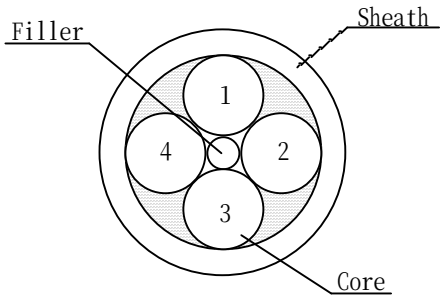
Product Specification

(4S18F)

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of the Loud Speaker cable.
2. **General Specifications**
   - **(1) Product Name** Speaker Cable
   - **(2) Model Name** 4S18F
   - **(3) Construction and Appearance** As shown in Fig.1 and Table 1

Fig. 1



Color of the Insulation

1	2	3	4
Red	White	Translucent Red	Translucent White

Table 1

Item			Standard Value	Note
No. of Conductor			4	1 Quad
Core	Inner Conductor	Construction (qty/mm)	88/0.32A	Annealed Copper 9AWG
		Nom. Cross Section Area(mm^2)	7.08	
		Outer Diameter (mm)	3.47	
	Insulation	Thickness (mm)	1.27	Polyethylene
		Outer Diameter (mm)	6.01	
Strand		Pitch (mm)	150	Quad
Filler		Material	PE	
Sheath		Thickness (mm)	1.5	PVC
		Color	Grey, Black Custom colors available	
		Marking	Speaker Cable 4S18F CANARE <Year> MADE IN JAPAN	
Outer Diameter			17.5	

- **(4) Weight** Approx. 53 kg／100m
- **(5) Package** Over 45m：Wooden reel

3. Rating, Standard

(1) Rated Voltage AC60Vrms

(2) Temperature Range -20～+60℃

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	<= 2.7Ω/km (20℃)	JIS C3005
Insulation Resistance	>= 1000MΩ・km	JIS C3005
Voltage Proof	AC500V 1minute Not Breakdown	JIS C3005

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	>= 10.0 Mpa	JIS C3005
	Elongation	>= 190 %	JIS C3005

6. Environment Characteristics

Item	Standard Value	Test Method
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 C 60068-1 General Environmental Testing 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.