

Product Specification (RJC6A-4P-SFM)

SAA413E

Ver 1.0

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of the Category6A Mobile LAN cable.

2. **General Specifications**

- (1) **Product Name** LAN Cable
- (2) **Model Name** RJC6A-4P-SFM
- (3) **Construction and Appearance** As shown in Fig.1 ,Fig.2 and Table 1

Fig.1 Cable Cross Section

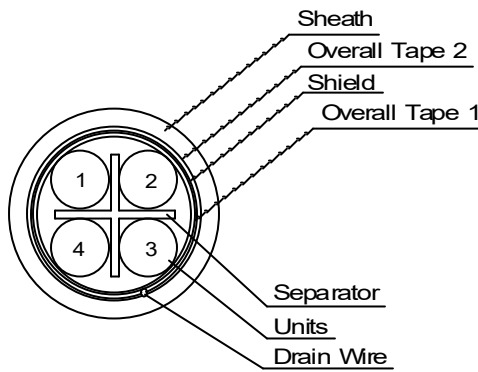
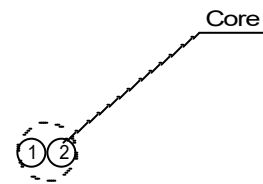


Fig.2 Units



Color of the Insulation

1	2	3	4
WHT/BLU	WHT/ORG	WHT/GRN	WHT/BRN
BLU	ORG	GRN	BRN

Table 1

Item			Standard value	Note	
Number of Conductor			8	4 pair	
Units	Core	Conductor	Construction (qty/mm)	1 / 0.57A	Annealed Copper 23AWG
			Nom. Cross Section Area (mm ²)	0.26	
			Outer Diameter (mm)	0.57	
		Insulation	Thickness (mm)	0.24	Polyethylene
			Outer Diameter (mm)	1.05	
	Strand	Outer Diameter (mm)	2.1	Twisted Pair	
Separator		Material	Cruciform	Polyethylene	
Sheath 1		Thickness (mm)	0.4	PVC	
		Outer Diameter (mm)	6.7		
Shield 1		Thickness (mm)	0.03	Aluminum Tape	
Shield 2		Construction (carr/end/mm)	24/11/0.10TA	Tinned Annealed Copper	
Sheath		Thickness (mm)	0.7	PVC	
		Color	BLK		
		Marking	Cat6A Network Cable RJC6A-4P-SFM CANARE <Year code> MADE IN JAPAN		
Outer Diameter (mm)			8.6	—	

- (4) **Weight** Approx. 8.9kg/100m
 (5) **Package** 100m, 200m : Coil + Carton Box

3. Rating, Standard

- (1) **Temperature Range** -20°C ~ +60°C
 (2) **Standard** ANSI/TIA/EIA-568.2-D
 ISO/IEC 11801 2.2 Edition
 JIS X 5150:2016

4. Electrical Characteristics

Table 2

Item	Standard Value	Test Method
D.C. Resistance	$\leq 8.2\Omega/100m$ (20°C)	JIS C 3005
Capacitance (Mutual)	$\leq 5.6nF/100m$ (1kHz)	JIS C 3005
Insulation Resistance	$\geq 5000M\Omega \cdot km$	JIS C 3005
Voltage Proof	AC700V 1minute Not Breakdown	JIS C 3005
Nom. Velocity of Propagation	67.5%	-

Table 3

Freq. (MHz)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACRF (dB)	Min. PSACRF (dB)	Max. IL (dB/100m)	Min. RL (dB)	Max. Delay (ns/100m)	Max. Delay Skew (ns/100m)
1	74.3	72.3	67.8	64.8	2.1	20.0	570	45
10	59.3	57.3	47.8	44.8	5.9	25.0	545	45
20	54.8	52.8	41.8	38.8	8.4	25.0	542	45
31.25	51.9	49.9	37.9	34.9	10.5	23.6	540	45
62.5	47.4	45.4	31.9	28.9	15.0	21.5	539	45
100	44.3	42.3	27.8	24.8	19.1	20.1	538	45
200	39.8	37.8	21.8	18.8	27.6	18.0	537	45
250	38.3	36.3	19.8	16.8	31.1	17.3	536	45
300	37.1	35.1	18.3	15.3	34.3	16.8	536	45
400	35.3	33.3	15.8	12.8	40.1	15.9	536	45
500	33.8	31.8	13.8	10.8	45.3	15.2	536	45

5. Mechanical Characteristics

Item	Standard Value	Test Method
The permission tension	$\leq 110N$	—
Permission bend radius	O.D x4	—

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.