

Product Specification (L-2E4-12AL)

SAA096E

Ver.2.4

Canare Electric Co., Ltd

1. **Scope** This product specification covers the specifications of the wrapping type multichannel cable for fixed wiring.

2. General Specifications

- (1) **Product Name** Two-Conductor Shielded Multi channel Cable
 (2) **Model Name** L-2E4-12AL
 (3) **Construction and Appearance** As shown in Fig.1, Fig.2 and Table 1

Fig.1 Construction

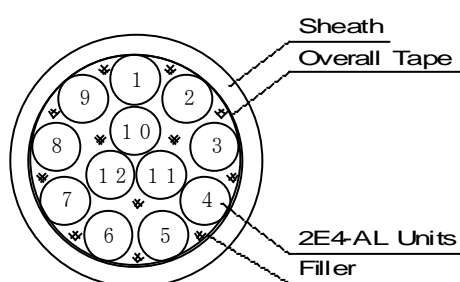
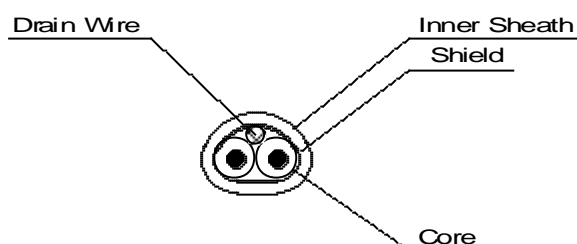


Fig.2 2E4-AL Unit Construction



The units shall be identified by the color of the insulator and by dot marking (printed on one side) on the inner sheath.

Printing color: 1 to 10ch -- Red, 11 to 12ch -- Blue

[Insulation color: Dot marking specification]

1		2		3		4		5		6	
RED - WHT	A1	BLU - WHT	A2	YEL - WHT	A3	GRN - WHT	A4	BRN - WHT	A5	GRY - WHT	B1
7		8		9		10		11		12	
BLU - BLK	B2	YEL - BLK	B3	GRN - BLK	B4	BRN - BLK	B5	GRY - BLK	A1	BLU - ORN	A2

Table 1

Item				Standard Value	Note
No. of Unit				24	12 pairs
Unit Construction	Core	Conductor	Construction (qty/mm)	7 / 0.23TA	Overall tin coated Copper 23AWG
			Nom. Cross Section Area (mm²)	0.29	
			Outer Diameter (mm)	0.69	
		Insulation	Thickness (mm)	0.35	Polyethylene
			Outer Diameter (mm)	1.39	
	Strand		Pitch (mm)	<=30	Twisted Pair
	Drain Wire		Construction (qty/mm)	7 / 0.23TA	Overall tin coated Copper
	Shield	Thickness (mm)		0.03	Aluminum laminated tape
		Outer Diameter (mm)		2.9	
	Inner Sheath	Thickness (mm)		0.4	PVC
		Outer Diameter (mm)		3.7	

Table 1 (continuation)

Item		Standard Value	Note
Filler	Materials	PP	-
Overall Tape	Thickness (mm)	0.05	Paper Tape
Sheath	Thickness (mm)	(1.3)	PVC
	Color	Gray	
	Marking	L-2E4-12AL CANARE <Year code> MADE IN JAPAN	
Outer Diameter (mm)		16.9	-

(4) **Weight** Approx. 32.0 kg/100m

(5) **Package** Less than 70m :Coil
Over 80m :Wooden reel

3. Rating, Standard

(1) **Rated Voltage** AC 60Vrms

(2) **Temperature Range** -20 to +60°C

4. Electrical Characteristics

Item	Standard Value	Test Method
D.C. Resistance	$\leq 69.3 \Omega / \text{km}$ (20°C)	JIS C 3005
Insulation Resistance	$\geq 1000\text{M}\Omega\text{-km}$	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	$\geq 10.0 \text{ MPa}$	JIS C 3005
	Elongation	$\geq 190\%$	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 C3005.
	A vertical specimen of an insulated conductor shall not flame longer than 60s following five 15s applications of flame.	The VW-1 flame test specified in UL1581.

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.