

Product Specification (DA203-12AL)

SAA122E

Ver.1.9

Canare Electric Co., Ltd

1. **Scope** This product specification covers the specifications for digital audio multichannel cable.

2. General Specifications

(1) **Product Name** 110Ω Digital Audio Cable

(2) **Model Name** DA203-12AL

(3) **Construction and Appearance** As shown in Fig.1, Fig.2 and Table 1

Fig.1 Construction

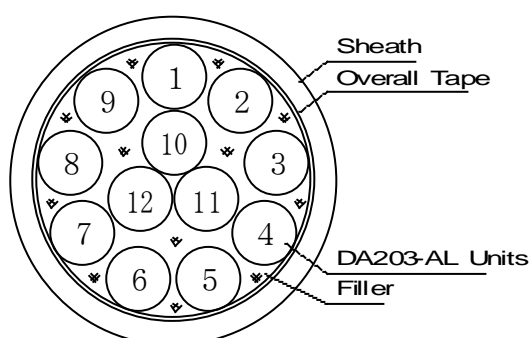
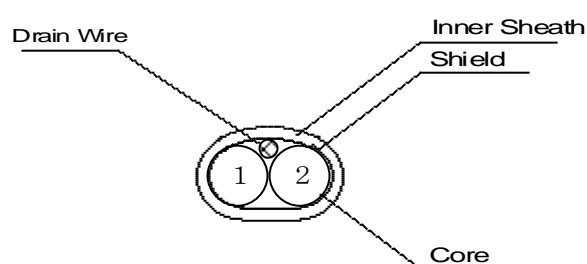


Fig.2 DA203-AL Unit Construction



The units are identified by the color of the insulator and the spiral marker on the intermediate sheath.

[Upper: insulator color, Lower: spiral marker color]

1	2	3	4	5	6
RED - WHT	BLU - WHT	YEL - WHT	GRN - WHT	BRN - WHT	GRY - WHT
RED	BLU	YEL	GRN	BRN	-
7	8	9	10	11	12
BLU - BLK	YEL - BLK	GRN - BLK	BRN - BLK	GRY - BLK	BLU - ORN
BLU - BLK	YEL - BLK	GRN - BLK	BRN - BLK	BLK	BLU - ORN

Table 1

Item		Standard Value	Note		
No. of Core		24	12 pairs		
Units Construction	Core	Conductor	Construction (qty/mm)	7 / 0.23TA	Overall tin coated Copper 23AWG
			Nom. Cross Section Area (mm ²)	0.29	
			Outer Diameter (mm)	0.69	
	Insulation	Thickness (mm)	0.68	Cross linked Polyethylene	
		Outer Diameter(mm)	2.05		
	Strand	Pitch (mm)	42	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)	4.2		
	Inner Sheath	Thickness (mm)	0.3	PVC	
Outer Diameter (mm)		4.9			

Table 1 (continuation)

Item		Standard Value	Note
Filler	Materials	PP	-
Overall Tape	Thickness (mm)	0.16	Nonwoven Fabric Tape
Sheath	Thickness (mm)	1.2	PVC
	Color	BLUE	
	Marking	110Ω Digital Audio Cable DA203-12AL CANARE <Year code> MADE IN JAPAN	
Outer Diameter (mm)		21.9	-

(4) **Weight** Approx. 44.1kg/100m

(5) **Package** Less than 50m :Coil
Over 60m :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	$\leq 69.2\Omega/\text{km}$ (20°C)	JIS C 3005
Insulation Resistance	$\geq 1000\text{M}\Omega\text{-km}$	JIS C 3005
Voltage Proof	AC500V, 1 minute Not Breakdown	JIS C 3005
Characteristic Impedance	90 to 120Ω (6MHz)	OPEN / SHOT Circuit

5. Mechanical Characteristics

Item	Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	≥ 10.0 MPa
	Elongation	$\geq 190\%$

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°C, a relative humidity of 25-75%, and an atmospheric pressure of 86-106kPa.