

Product Specification (DMX403)

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of the DMX512 transmission cable.

2. **General Specifications**

(1) **Product Name** DMX Cable

(2) **Model Name** DMX403

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

Color of the Insulation

1	2	3	4
White	Red	Black	Green

Fig. 1

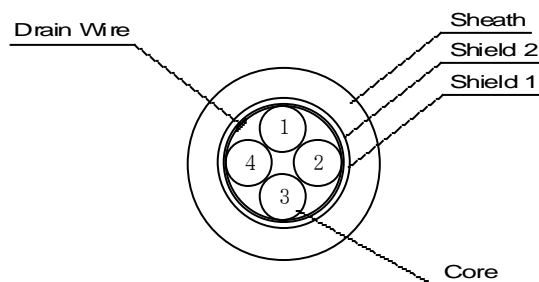


Table 1

Item	Standard Value	Note		
No. of Conductor	4	1 Quad		
Core	Conductor	Construction (qty/mm)	44/0.10TA	Tinned Annealed Copper 22AWG
		Nom. Cross Section Area (mm ²)	0.35	
		Outer Diameter (mm)	0.77	
	Insulation	Thickness (mm)	0.43	Cross linked Polyethylene
		Outer Diameter (mm)	1.63	
Strand	Pitch (mm)	<= 50	Quad	
Shield 1	Thickness (mm)	0.03	Aluminum Tape	
	Outer Diameter (mm)	3.9		
Drain wire	Construction (qty/mm)	25/0.12TA	Tinned Annealed Copper	
Shield 2	Construction (carr/ends/mm)	16/10/0.10TA	Tinned Annealed Copper Coverage >=90%	
	Pitch (mm)	<= 24		
	Outer Diameter (mm)	4.5		
Sheath	Thickness (mm)	1.0	PVC	
	Color	Black. Custom colors available		
	Marking	DMX Cable DMX403 CANARE <Year Code> MADE IN JAPAN		
Outer Diameter (mm)		6.5		

(4) **Weight** Approx. 6.2kg / 100m

(5) **Package** 100m, 200m : Spool
Over 410m : Wooden reel

3. Rating, Standard**(1) Rated Voltage** AC 60 Vrms**(2) Temperature Range** -20 ~ +60°C**4. Electrical Characteristics**

Item		Standard Value	Test Method
D.C. Resistance	Conductor	$\leq 57.6\Omega/\text{km}$ (20°C)	JIS C3005
	Shield	$\leq 14.6\Omega/\text{km}$ (20°C)	JIS C3005
Insulation Resistance		$\geq 1000\text{M}\Omega \cdot \text{km}$	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	≥ 200 %	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.
	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.