

# Product Specification

(LF-2SM7N)

SAQ025E

Ver.1.0

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of Hybrid Electrical and Fiber-Optic Camera Cable for studio and broadcast use.

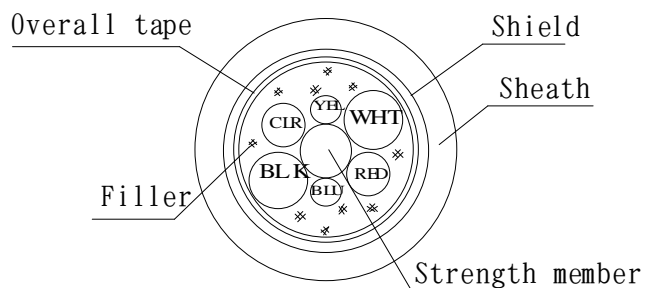
## 2. General Specifications

(1)Product Name Hybrid Electrical and Fiber-Optic Camera Cable

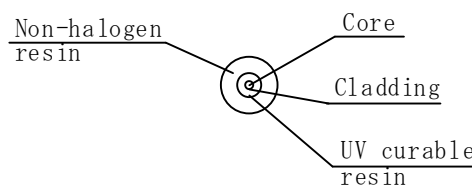
(2)Model Name LF-2SM7N

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

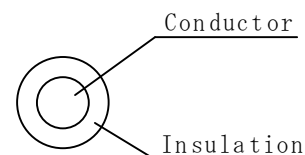
**Fig.1** Construction and color coding



**Fig.2** 0.9SM(PAPB)NH



**Fig.3** P05E,C02E construction



**Table 1**

		Item	Standard value	Remarks	
Configuration of inner units	Optical Fiber	Unit name	0.9SM(PAPB)NH	—	
		Number of units	2	Color coding: Yel, Blu	
		Optical Fiber	Mode field OD (μm)	8.6±0.4	Standards: ITU-T G.652.D ITU-T G.657.A1
			Cladding OD (μm)	125±0.5	
			Concentricity error (μm)	≦0.4	
			Cladding non-circular ratio (%)	≦0.5	
			Cut-off wavelength(μm)	≦1.26	
			Buffer	UV curable resin+ Non-halogen resin	
	Outer diameter (mm)	0.9±0.1			
	Power line	Unit name	P05E	—	
		Number of units	2	Color coding: Blk, Wht	
		Conductor	Construction (qty/mm)	21/TA0.18	Tinned annealed copper (JIS C3152)
			Nom. cross sec. area (mm <sup>2</sup> )	0.53	
			Outer diameter (mm)	0.90	
	Insulation	Outer diameter (mm)	1.7	Polyethylene	
	Control line	Unit name	C02E	—	
		Number of units	2	Color coding: Red, Clr	
Conductor		Construction (qty/mm)	7/TA0.18	Tinned annealed copper (JIS C3152)	
		Nom. cross sec. area (mm <sup>2</sup> )	0.18		
		Outer diameter (mm)	0.55		
Insulation	Outer diameter (mm)	1.2	Polyethylene		

Table 1 (continued)

Item		Standard value	Remarks
Strength member	Outer diameter (mm)	1.4	Polyamide coated stainless steel wire
Filler	Material	Cotton yarn	—
Overall tape	Thickness (mm)	0.08	Non-woven fabric
Shield	Construction (mm/end/carriers)	TA0.10/ 8/24	Tinned annealed copper (JIS C3152)
	Outer diameter (mm)	5.5	Coverage $\geq 91\%$
Sheath	Thickness (mm)	0.8	Abrasion-resistant Sheath
	Color	Black	
	Marking	Product type·Model ·CANARE·Year code	
Outer diameter (mm)		7.1±0.3	—

(4)Weight: Approx. 7.3kg/100m

(5)Package 350m or less : donut roll  
Over 350m : Wooden reel

### 3. Characteristics

#### 3.1 Transmission performance

(1)Optical Fiber

Item	Characteristics	Condition	Standard Value	Test method
Attenuation	$\leq 0.5$ dB/km (at $\lambda=1.31\mu\text{m}$ )	$0.2 \leq L < 1$	$\leq 0.375 \times L + 0.125$ dB	JIS C 6823
		$L < 0.2$	$\leq 0.2$ dB	

\* L : Cable length (km)

(2)Power line

Item	Standard value	Test method
Conductor resistance	$\leq 37.5\Omega/\text{km}(20^\circ\text{C})$	JIS C 3005
Insulation resistance	$\geq 10000\text{M}\Omega \cdot \text{km}(20^\circ\text{C})$	JIS C 3005
Withstand voltage	AC 1000V·1min.	JIS C 3005

(3)Control line

Item	Standard value	Test method
Conductor resistance	$\leq 113\Omega/\text{km}(20^\circ\text{C})$	JIS C 3005
Insulation resistance	$\geq 10000\text{M}\Omega \cdot \text{km}(20^\circ\text{C})$	JIS C 3005
Withstand voltage	AC 1000V·1min.	JIS C 3005

#### 3.2 Mechanical characteristics

Item	Standard value	Test method
Tensile strength	300N minimum	—
Bending radius	6xcable OD minimum	—

### 4. Use conditions

(1)Temperature Range : -40~+75°C

End