

Product Specifications
(FCC**N)

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SAD247E
Ver 1.1

CANARE Electric Co., Ltd.

1. Scope This specification covers the performance of Hybrid Fiber-Optic Camera Cable Assemblies.

2. General Specifications

(1) Product Name Hybrid Fiber-Optic Camera Cable Assemblies

(2) Model Name and Weight

Model Name	Weight	
	NET (kg)	GROSS (kg)
FCC10N	1.6	2.1
FCC20N	2.8	3.2
FCC25N	3.4	3.8
FCC35N	4.6	5.0
FCC50N	6.4	6.9
FCC100N	12.5	13.1
FCC150N	18.4	19.5
FCC200N	24.7	25.8

※GROSS weight includes packaging.

(3) Configuration and Wiring Diagram As shown in Fig DL247E.

(4) Packaging After packed in a plastic bag, and packed in a cardboard box dedicated.

3. Rating

(1) Conformed Standards SMPTE311M, SMPTE 304M, ARIB BTA S-1005B

(2) Temperature Range -20°C~ +60°C

(3) Humidity ~95%

(4) Permissible Bend Diameter 6 times the cable diameter

(55mm when the cable outside diameter is 9.2mm)

4. Characteristics Please refer to the individual specifications for the article not shown below.

4.1 Optical Characteristics

Item	Characteristics	Test methods
Insertion Loss (including cable loss)	$\leq 0.5\text{dB}$ ($\lambda=1.31\mu\text{m}$) *Polish: applicable to AdPC	Shall be connected with a master cable. (IEC1300-3-4)
Return Loss	$\geq 45\text{dB}$ ($\lambda=1.31\mu\text{m}$) *Polish: applicable to AdPC	Shall be connected with a master cable. (IEC1300-3-6)

4.2 Electrical Characteristics

Item	Characteristics	Test methods
Voltage Proof	No burn caused by short circuit or insulation destruction.	AC500V, 1 minute.
Insulation Resistance	$\geq 1000M\Omega$	Charge up for 1 min, at 500V and measure the insulation resistance.

4.3 Mechanical Characteristics

Item	Characteristics	Test methods
Compatibility	Proper connection is required.	The receptacle and applicable plug shall be engaged, without being too loose or too tight.
Pull Strength of Cable	$\geq 500N$	Connect the applicable cable to the connector, and measure the tension.
Strength of Cramping (Fiber Cable Retention)	Match the value of the standard of light performance and the electric performance. The change level of the insertion loss: $\geq 0.2dB$	Pull the connector fixed on one side of the cable at a tension of 1000N for one minute.
Strength of Cramping (Bending Strength)	The inside of the connector should not be abnormal.	Bending angle right and left 90°, Speed 20 times/min, Flex the cable 500 times with a load of 7.5kg.
Strength of Cramping (Twisting Strength)		Turning angle right and left 180°, between the chuck : 90mm from the base of connector, Flex the cable 2000 times with a load of 7.5kg.

4.4 Environmental Characteristics

Item	Characteristics	Test methods
Temperature Cycling	Match the value of the standard of light performance and the electric performance. The change level of the insertion loss: $\geq 0.2dB$ The inside of the connector should not be abnormal.	- 40°C~85°C For 60 minutes. Migration time : 1°C/min. Number of cycles : 21cycles. (Telcordia GR326)
Resistance to High Temperature and Humidity		For 240 hours. (Temperature 85°C and humidity 95%).

<Note> Unless otherwise specified, all tests and measurements should be performed within a normal temperature range of 15-35°C, a relative humidity of 25-27%, and an atmospheric pressure of 86-106kPa.