

1.0 Materials and Surface

1.1 CAP

MATERIAL : PVC

COLOR : BLACK

1.2 INSULATOR (REC ')

MATERIAL : NYLON66

COLOR : GRAY

1.3 REC ' TERMINAL

Brass , Rre-Tin plated 0.8m Min

2.0 Mechanical Characteristics

Item	Specifications	Test Conditions	Remarks
A Visual Examination	The result of examination should be compliant with the individual specification	Before the qualification test the mated test specimen, one for socket the other for header. All these components shall be examined. Examinations include dimensional examination, constructional examination and other details of applicable specification and documents.	
B Durability	After 1,000 times of the durability test, connectors shall be no evidence of mechanical or electrical defects and shall meet the specification of contact resistance, and connector mating and unmating force.	The mated test specimen are mated and unmated for 1000 times at a rate of 1 KHz per hour. After test, it measure that contact resistance and individual and contact separation force.	
C Mating and Unmating force (Initial)	The mating force of the pin of plug with the properly assembled mating connector shall not exceed 6.0kgf. The unmating force of the pin of plug with the properly assembled mating connector shall not be less than 2.0kgf.	The test specimen are mounted to mounting fixtures by the normal mounting means.	
D Individual contact terminal retention force.	The individual contact shall be capable of withstanding 500gf minimum axial force along the axis of retention.	The mated test shall be used the proper plug for socket.	

3.0 Electrical Characteristics

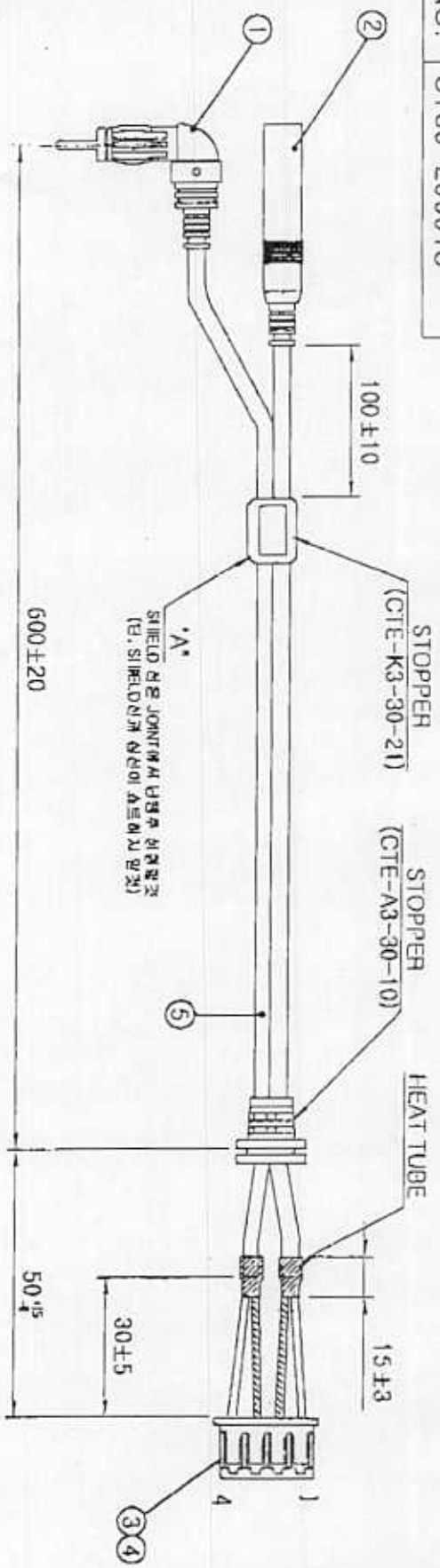
Item	Specifications	Test Conditions	Remarks
(A) Low level contact resistance (Initial)	30 mΩ Max	Measurement by Voltage drop method applying 1KHz, 0.1A test current under the mated condition with TAB and REC.	
(B) Low level contact resistance (Initial)	100 mΩ Min	Using 500V DC for one minute test between the adjacent contact by pairs.	
(C) Dielect Voltage (Initial)	500V AC RMS dielectric with standing Voltage, one minute hold, no evidence of Flash over or break-down.	Using 500 V AC RMS for one minute, test between adjacent and contacts.	Meet Specif- ication

4.0 Environmental Characteristics

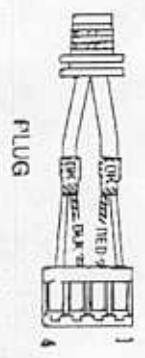
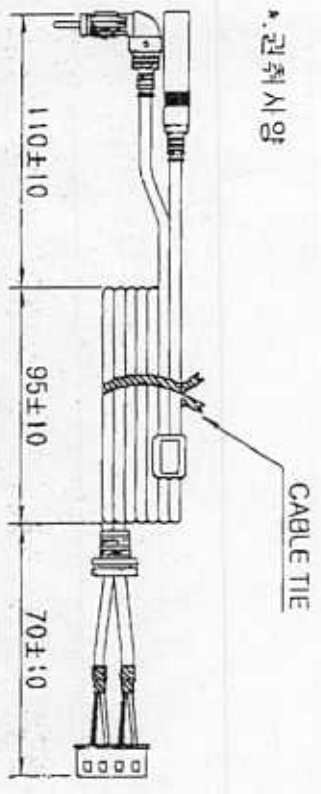
Item	Specifications	Test Conditions	Remarks															
(A) Humidity	After the duration of 96 hours of the cycling temp humidity test, the insulation resistance shall not be less than 100 MΩ	After 96 hours open on the conditions of the temp, $-10^{\circ} \pm 2^{\circ}\text{C}$ and relative humidity of 90 to 95 percent, and then humidity shall be completely eliminated under constant temp, and humidity for 1 or 2 hours.	Meet specifications.															
(B) Thermal Shock	After the thermal shock test of the -25°C to 85°C , the connector shall show no evidence of physical damage.	The mated test sample in the test chamber for 5 cycles between 25°C to 85°C , the connectors shall be transferred from one chamber to the other for the temp. Changes shall not exceed 5 minutes during each transfer and shall be maintained at each extreme for a minimum 30 minutes.																
(C) Salt Spray	After the salt spray test, connector shall meet the specifications of contact resistance and insulation resistance, etc.....	The mated test sample are tested with the 5% salt water (NaCl)6.5 7.2 1%, the temp. in the exposure zone maintained at $3.5^{\circ} \pm 2^{\circ}\text{C}$ for 48 hours of salt spray test then measure the insulation and contact resistance.																
(D) Vibration	No Intermittent period greater than one microsecond and no evidence of mechanical defects.111	The mated test sample testing under test cond. A - Amplitude : 4.524 mm - Accelerometer : 10 G - Frequency : 10 ~ 500 Hz - Test time : x,y,z axis each direction 12 cycles 15 minutes/cycles.																
(E) Temperature cycling	Satisfying the 3 - B and 3 - C	In case of 12 cycles test with one cycle based on below "Table" <table><tr><th>#</th><th>Temp.</th><th>Time</th></tr><tr><td>1.</td><td>$-20 \pm 3^{\circ}\text{C}$</td><td>2 H</td></tr><tr><td>2.</td><td>$25 \pm 10^{\circ}\text{C}$</td><td>1 H</td></tr><tr><td>3.</td><td>$80 \pm 2^{\circ}\text{C}$</td><td>3 H</td></tr><tr><td>4.</td><td>$25 \pm 10^{\circ}\text{C}$</td><td>1 H</td></tr></table>	#	Temp.	Time	1.	$-20 \pm 3^{\circ}\text{C}$	2 H	2.	$25 \pm 10^{\circ}\text{C}$	1 H	3.	$80 \pm 2^{\circ}\text{C}$	3 H	4.	$25 \pm 10^{\circ}\text{C}$	1 H	
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(F) cable temperature scope	$-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$	After a cable shall be tested for 3 hours on condition of 80°C of constant temperature, check the melting condition of skin																

제정번호	제정일자	정정기사	정정인	승인
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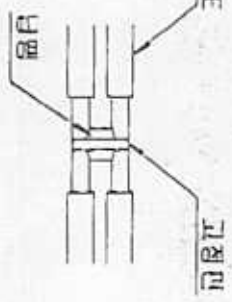
품명	ANT CABLE ASS'Y
MODEL NO.	FMM-1
PART NO.	
CODE NO.	SY39-200013



★ 권취시양



HOUSING부 조립도



★ 내부도

구분	번호	명칭	용도	색상	제조사
①	ANT PLUG		BLACK	JOHN TECH	
②	ANT SOCKET		BLACK	JOHN TECH	
③	HOUSING : 5264-04				
④	TERMINAL : 5263				
⑤	CABLE : C02ANTXX		BLACK	Nail	

- 1 = RF IN, WHITE
- 2 = GND, RED GND
- 3 = GND, BLACK GND
- 4 = RF OUT, WHITE

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