

1.0 SCOPE

This product specification covers the technical and quality requirements of 1.00 mm (0.040 inch) Wire-to-Wire product line with an in-line connection system that meets ES91500-00 Specification.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBERS

Product Name	Series
040 Male Housing Ass'y 8P, Screw Type	68507-0811
040 Male Housing Ass'y 8P, Clip Type	68507-0821
040 Female Housing Ass'y 8P	68508-081*
040 Male Housing Ass'y 12P, Screw Type	49102-1210
040 Female Housing Ass'y 12P	64002-121*
040 Female Housing Ass'y 16P	35563-161*
040 Male Terminal	50660-9001
040 Female Terminal	50654-1001

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Housings: Polyester(PBT), Unfilled HB
 TPAs: Polyester(PBT), Unfilled HB
 Male Terminal : Brass C26000
 Female Terminal : Copper alloy C19025

3.0 RATINGS

3.1 VOLTAGE

13 Volts DC(RMS)

3.2 TEMPERATURE

Operating: - 40 C° to + 120 C°
 Non-operating: - 20 C° to + 60 C°

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REVISION DESCRIPTION	RETRACTED PART NUMBERS AS PER SALES FORCE CASE#210635			1.00MM(.040") WIRE-TO-WIRE CONNECTOR 8P,12P,14P,16P			
CHANGE NO.	674442						
REVISED BY	SUGEEB	DATE	2021/08/18	DOC TYPE	DOC TYPE DESCRIPTION	DOC PART	SERIES
REV APPR BY	GGA	DATE	2021/09/08	PS	PRODUCT SPECIFICATION WORD	013	104000
INITIAL RELEASE				CUSTOMER	DOCUMENT NUMBER	REVISION	SHEET
INITIAL DRWN	EOKIM	DATE	2009/04/07	GENERAL MARKET	PS-104000-001	C	1 OF 13
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3.3 CURRENT

Basic current value "I" shall be based on the following. ($I = I_0 * K$)

Cable size		I_0	Remarks
SQ(mm ²)	(AWG)	General	
0.3	22	6 A	4A for signal
0.5	20	8 A	5A for signal
0.85	18	10 A	

Number of simultaneous electrode within the same connector	K
	Reduction factor
6 ~ 8	0.55
9 ~ 10	0.5
11 ~ 25	0.4

4.0 PERFORMANCE

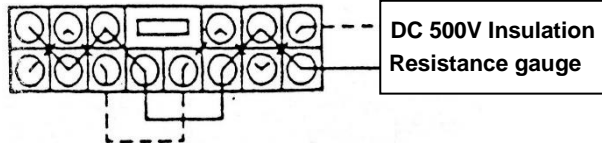
4.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Insulation Resistance	Measure resistance between neighbor terminals (figure 5-1), and between terminal and housing surface (figure 5-2) with DC 500V insulation resistance gauge with connector combined.	100 MΩMINIMUM
2	Voltage drop	Measure the circuit voltage drop(V) by sending voltage and current described in the <table 5-1> with terminal combined on the connector. Then calculate a voltage drop(V_D) in terminal by subtracting cable resistance(L) from the circuit voltage drop(V). 1) Harness versus Harness (figure 5-3) : $V_D = V - (L_1 + L_2)$ 2) Harness versus Unit (figure 5-4) : $V_D = V - (L_3 + L_4)$	Initial : 5mV/A MAXIMUM After endurance : 10mV/A MAXIMUM
3	Leakage current	Measure it by applying DC 14V between neighboring terminals(figure 5-1)	Initial : 10μA MAXIMUM After endurance : 1mA MAXIMUM
4	Dielectric Withstanding Voltage	Apply AC 1000V voltage of normal frequency for 1 minute between neighboring terminals(figure 5-1), and between housing surfaces of terminal(figure 5-2), with connector combined.	No Breakdown

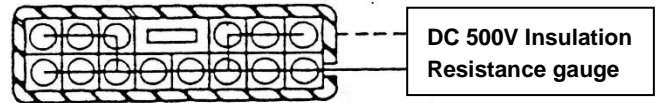
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5	Temperature Rise	Apply basic current($I = I_0 * K$) of clause 4.2 to the connector with electrodes in series in the room free from wind(normal temperature). And Measure a temperature of crimped part after reaching saturation temperature. Then calculate a temperature of crimped part by subtraction ambient temperature from the temperature.		Temperature rise over Ambient: +40 C° MAXIMUM		
		6	Instant short circuit		It is instant short circuit, when 3.5V or less voltage continues for 10μs or more in gauge by applying 1μA , 5V open voltage. Figure 5-5 is an example of measured circuit.	10μs MAXIMUM
	Applied current	Current application time				
A	2 times of basic current	1 minute - ON, 9 minutes - OFF				
B	5 times of basic current	10 seconds - ON, 590 seconds - OFF				



< Figure 5-1: Between neighboring terminals >



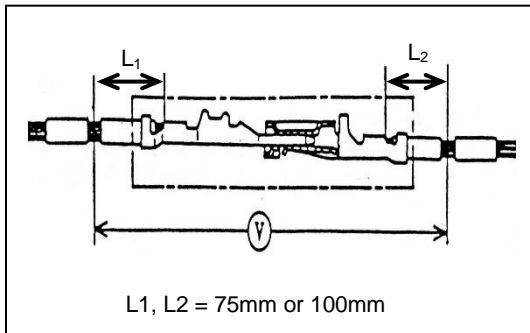
< Figure 5-2: Between neighboring terminals and housing surface >

Application	Open voltage	Short circuit current	Division
Signal Circuit	20 \pm 5mV	10mA	ECU, Sensor
Power circuit	13V	1A	Other than the above

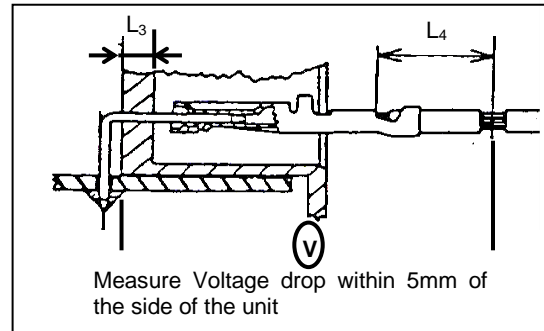
< Table 5-1 >

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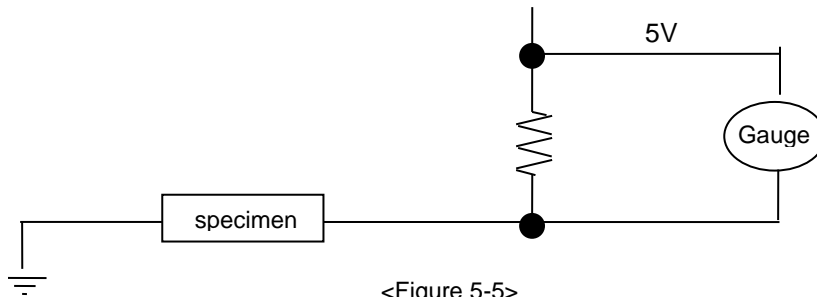
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< Figure 5-3: HARNESS versus HARNESS >



< Figure 5-4 : HARNESS versus UNIT >



4.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
8	Appearance	Using sense of sight and touch	Visual: No Damage & No Deformation
9	Connector Mate and Unmate Forces	Measure force by inserting and disengaging the connector with terminal assembled at constant 50 mm/min speed. However, remove lock part when measuring disengage force.	1~12P : 98Newtons (10kgf) MAXIMUM 13~22P : 147Newtons (15kgf) MAXIMUM
10	Reverse insertion between Housings	Insert the housing with terminal by pushing it in reverse direction with hand or applying 196Newtons(20kgf).	196Newtons (20kgf) MINIMUM
11	Reverse insertion between terminal and housing	Crimp cable of maximum size on terminal and then insert it into end of insulation barrel in the reserve direction.	49Newtons (5kgf) MINIMUM

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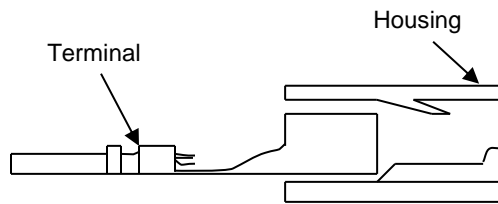
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12	Terminal Insertion Force (into Housing)	As shown in the following figure 5-6, measure the weight while inserting terminal into fixed housing at 50mm/min speed.	14.7Newtons (1.5kgf) MAXIMUM
13	Connector clip Panel Insertion and Retention Forces	1) Insert clip into the fixed plate that can be furnished with clip at 50mm/min and measure the force at that time. 2) Pull clip at 50mm/min and measure the force when destroyed or disengaged.	Insertion Force : 117.6Newtons (12kgf) MAXIMUM Retention Force: 147Newtons (15kgf) MINIMUM
14	Clip Insertion and Retention Forces (into Housing)	Measure force by inserting and disengaging the connector with clip assembled at constant 50 mm/min speed.	Insertion Force : 58.8Newtons (6kgf) MAXIMUM Retention Force: 107.8Newtons (11kgf) MINIMUM
15	Housing lock strength	Combine housing only, fix the one side of housing in completely locked condition and extend the other side in axial direction and 30 angle direction at a constant speed of 50mm/min . Then measure weight when lock structure is disengaged or destroyed.	78.4Newtons (8kgf) MINIMUM
16	Housing Lock releasing Force	Apply force(F) to lock releasing park and measure weight on the point of A=0, However, cut connector and then perform test at the section in order to secure visibility. (figure 5-7)	58.8Newtons (6kgf) MAXIMUM
17	Terminal Retention Force (in Housing)	Fix the housing after inserting crimped terminals. Extend one line of cable in axial direction at a speed of 50mm/min at a position 50~100mm away from crimped part and measure weight when terminal is disengaged from the housing.	78.4Newtons (8kgf) MINIMUM
18	Terminal Mate and Unmate Forces	As shown in the following figure 5-8, engage and disengaged male terminal or steel gauge into or from female terminal at 50mm/min speed.	Insertion Force : 1.96~7.84Newtons (0.2~0.8kgf) & Retention Force : 1.47~7.84Newtons (0.15~0.8kgf)

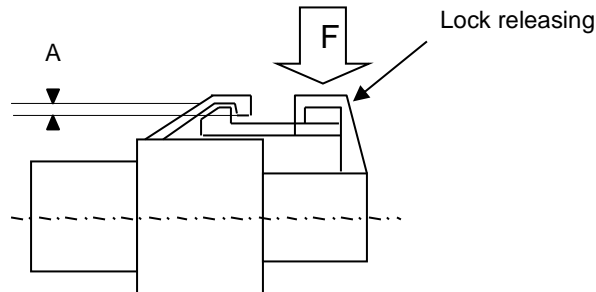
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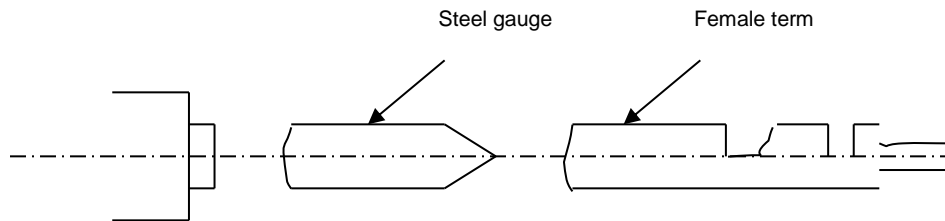
19	Wire Pullout Force	Fix the crimped terminal, and draw the cable at a position 50~100mm away from crimped part in axial direction at 100mm/min speed. Then measure the weight when cable is cur or disengaged from the crimped part.	See table<5-2>
20	Twisting test	Apply 78.4Newtons(8kgf) force on the end part of combined connector 10 times each in the(front, rear, left, right) directions perpendicular to axial direction.	Visual: No Damage & 10mV/A MAXIMUM (change from initial)
21	Connector engage and disengage endurance test	Make combine connectors engage and disengage at 100mm/min . Perform it 50 times. (Do not use locking device)	Visual: No Damage & 10mV/A MAXIMUM (change from initial)



<Figure 5-6>



<Figure 5-7>



<Figure 5-8>

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SQ(mm ²)	0.22	0.3	0.5	0.75	0.85	1.25	2.0	2.5	3.0	5.0	8.0
Newton MINIMUM	39.2	58.8	88.2	107.8	127.4	166.6	196	245	343	392	490
Kgf MINIMUM	4.0	6.0	9.0	11.0	13.0	17.0	20.0	25.0	35.0	40.0	50.0

<Table 5-2 >

4.3 ENVIROMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
22	Cold temperature Test	Engage and disengage connector with terminal assembled 10 times with hands, and leave it in temperature chamber of -40°C for 120 hours. Make connector engaged and disengaged 5 times immediately, and drop it onto the concrete surface from 1 m height 3 times in the direction of figure 5-9. (Voltage drop & Temperature rise test perform at normal temperature)	Visual: No Damage & 10mV/A MAXIMUM (change from initial) & 10 KΩ MINIMUM & 1mA MAXIMUM & Temperature rise : 40° MAXIMUM
23	High temperature test	Engage and disengage connector with terminal assembled 10 times with hands, and leave it in combined state at the temperature chamber of the table 5-3 for 300 hours. Then pick it out and leave it until it returns to normal temperature.	Visual: No Damage & 10mV/A MAXIMUM (change from initial)
24	Cold and hot temperature shock test	Engage and disengage connector with terminal assembled 10 times with hands, and leave it in combined state at -40°C for 2 hours, and perform 200 cycles according of the method specified in the figure 5-10. Then it at room temperature for 2 hours or more(*)follows table 5-3)	Visual: No Damage & 10mV/A MAXIMUM (change from initial)
25	Temperature Humidity test	Engage and disengage connector with terminal assembled 10 times with hands, and leave it at 25°C ambient temperature and 65% relative humidity for 25 hours. And perform 5 cycles of the method specified in figure 5-11. Then pick connector out of chamber and dry it for 2 hours or more.	Visual: No Damage & 10mV/A MAXIMUM (change from initial) & 10 KΩ MINIMUM & 1mA MAXIMUM

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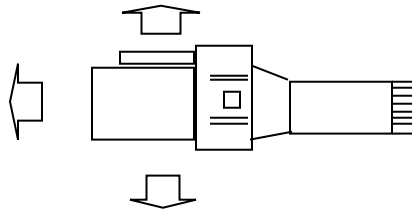
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26	Dust test	Engage and disengage connector with terminal assembled 10 times with hands, and diffuse 14.7Newtons(1.5kgf) Portland cement(JIS R5210) with fan (or others) for 10 seconds per 15 minutes while maintaining 150mm distance from wall in the closed container of 900~1200mm length, width and height, with connector combined. After 1 hour, measured.	Visual: No Damage & 10mV/A MAXIMUM (change from initial)
27	Oil and Liquid test	Engage and disengage connector with terminal assembled 10 times with hands, and perform test in the following order with connector combined. A) Immerse connector in combined state for 2 hours in mixed oil of 50± 2 °C ENG oil (SAE 10W) or equivalent oil and B) Immerse connector in combined state for 1 hour in car gasoline (JIS K2202) at normal temperature, and then pick it out. C) Immerse connector in combined state for 1 hour in brake liquid (pure product) at normal temperature, and then pick it out. D) Immerse connector in combined state for 1 hour in 100% washer liquid (pure product) at normal temperature, and then pick it out. E) Immerse connector in combined state for 1 hour in 50% LLD(Long life coolant) at normal temperature, and then pick it out.	Visual: No Damage & 10mV/A MAXIMUM (change from initial)
28	Ozone test	Engage and disengage connector with terminal assembled 10 times with hands, and expose it in combined state to ozone of 40°C, 50 ± 5pphm for 100 hours. Then pick connector out of chamber and dry it for 2 hours or more.	Visual: No Damage & 10mV/A MAXIMUM (change from initial)
29	Sulfur test	Engage and disengage connector with terminal assembled 10 times with hands, and expose it in combined state to sulfur gas of 40± 3°C , density 10ppm , humidity 90~95 % , for 24 hours. Then pick connector out of chamber and dry it for 2 hours or more.	Visual: No Damage & 10mV/A MAXIMUM (change from initial)

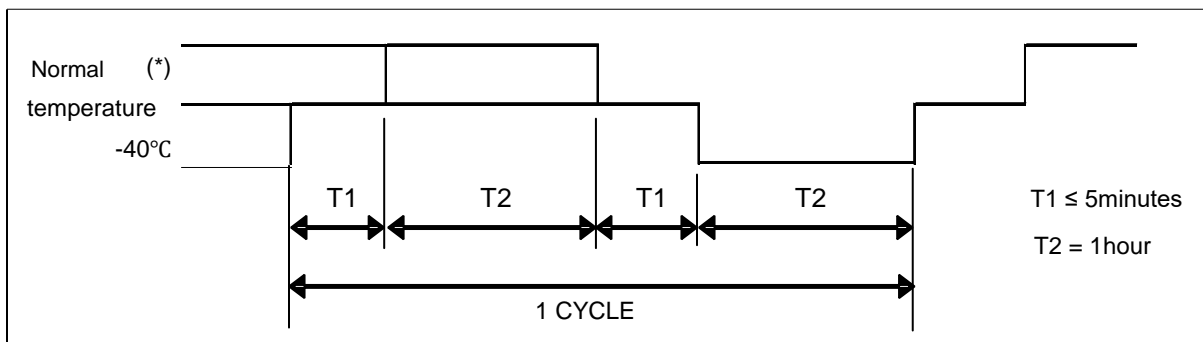
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30	Complex Environment endurance test	Engage and disengage connector with terminal assembled 10 times with hands, and leave it in combined state in the temperature chamber of 120°C or 80°C (follows table 5-3) for 48 hours. And then perform the following vibration test. Then measure instant short circuit according to the method of clause 6 for 4 hours for X, Y, Z each. Follow figure 5-12 for connector attaching method.(Refer to the attached test process #1)	Visual: No Damage & 10mV/A MAXIMUM (change from initial) & Temperature rise over Ambient: +40 C° MAXIMUM & Instant short Circuit: 10µS MAXIMUM & Wire Pullout Force : 88.2Newtons (9kgf) MINIMUM
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<Figure 5-9>



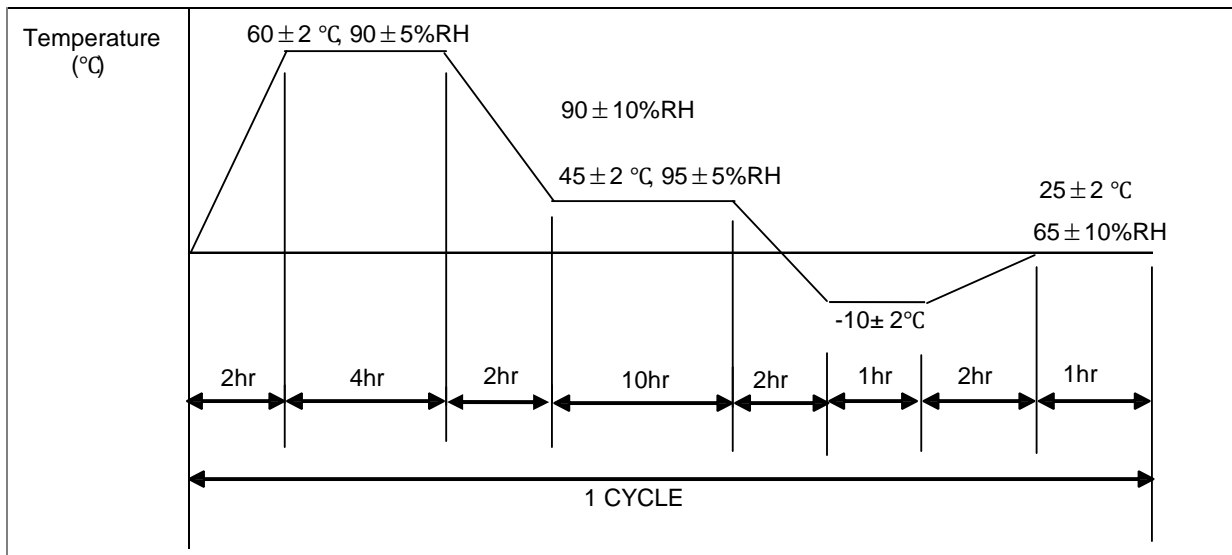
<Figure 5-10 Test pattern>

Division	High temperature (*)	Connector using part
A	120°C	waterproof connector
B	80°C	Non-waterproof connector

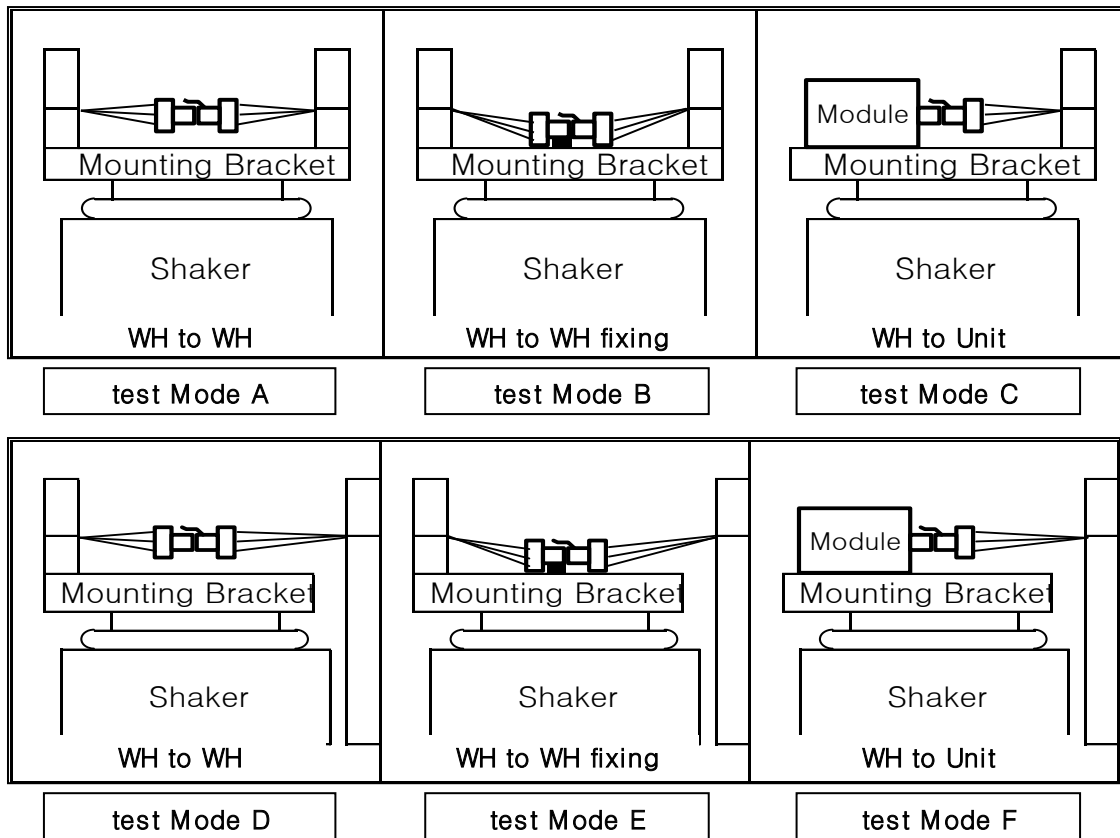
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<Figure 5-11 Test pattern>



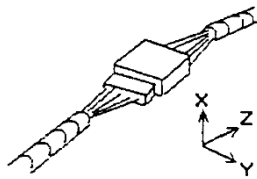
<Figure 5-12 Connector attaching method>

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◆ Vibration test A (for non-waterproof connector)

Division	Condition
Ambient temperature/humidity	80 °C, 90~95%
Applied current	Basic current (Connect electrodes in series.)
Current application cycle	120 CYCLE (45 minutes-ON, 15 minutes-OFF)
Vibration acceleration	4.4 g
Frequency	20 Hz ~ 200 Hz (Sweep time : 3 minutes or less)
Vibration time	40 hours for X, Y, Z each
Connector attaching method	Test Mode A, B, C

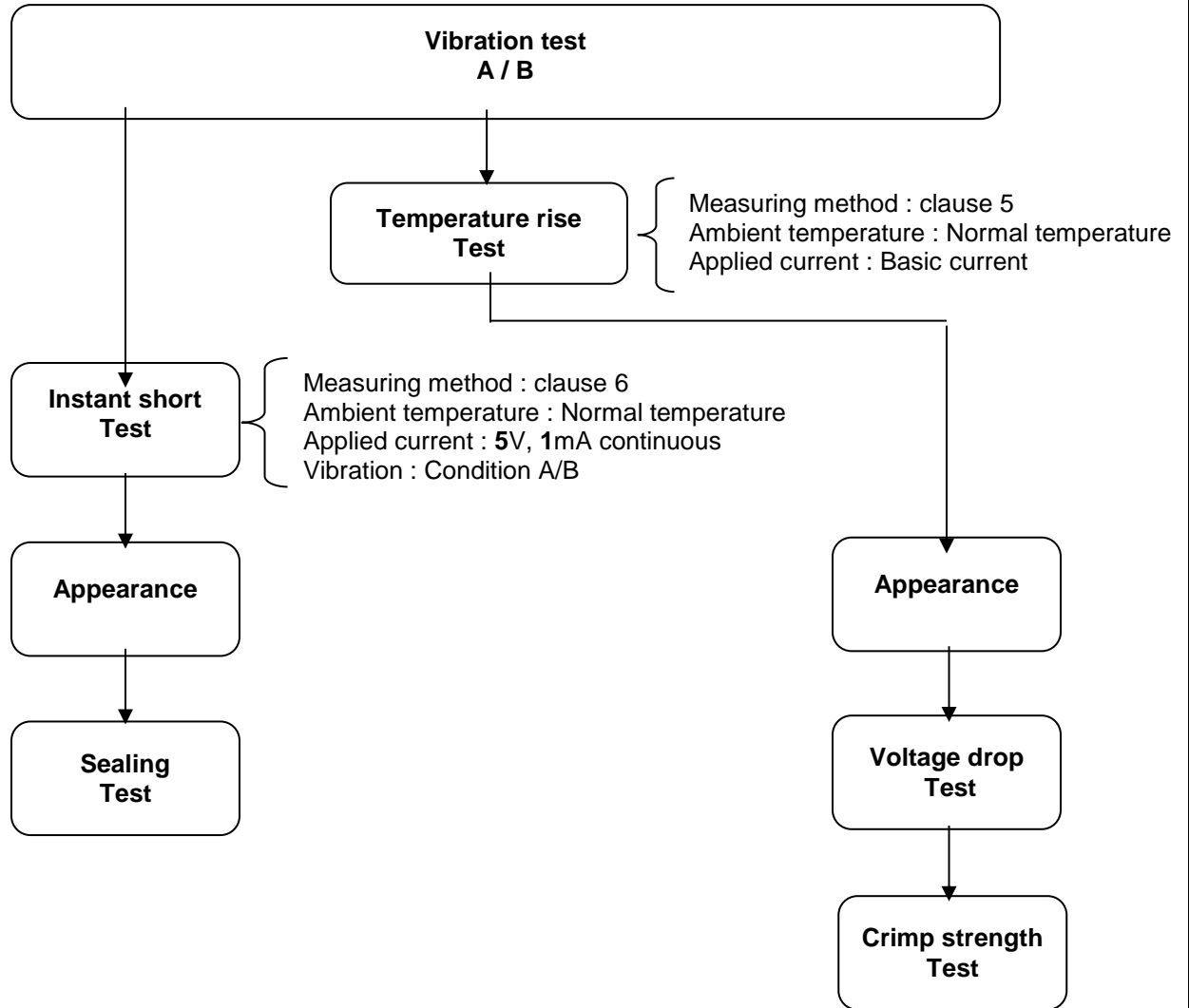


<X,Y,Z vibration direction>

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Test process #1



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5.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

6.0 OTHER INFORMATION

Products conform to ES91500-00 specification.

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INITIAL RELEASE				CUSTOMER	DOCUMENT NUMBER	REVISION	SHEET
INITIAL DRWN	EOKIM	DATE	2009/04/07	GENERAL MARKET	PS-104000-001	C	13 OF 13
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