



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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1) (2)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(3)</sup>	
	OPERATING HUMIDITY RANGE	RH 85 % MAX <sup>(2) (4)</sup>	STORAGE HUMIDITY RANGE	RH 70 % MAX <sup>(3) (4)</sup>	
	VOLTAGE	60 V AC <sup>(5)</sup>	CURRENT	0.5A <sup>(5)</sup>	
	APPLICABLE CABLE	FFC <sup>(6)</sup>			
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	x	x	
MARKING	CONFIRMED VISUALLY.		x	x	
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	80 mΩ MAX. <sup>(7)</sup>	x		
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	x		
VOLTAGE PROOF	200 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x		
<b>MECHANICAL CHARACTERISTICS</b>					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 25.5 N MAX. WITHDRAWAL FORCE: 2.55 N MIN.	x		
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.75 mm, AT 2 h FOR 3 DIRECTION.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x		
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		x		
LOCK STRENGTH	MATE TO APPLICABLE CONNECTOR AND APPLY PULL FORCE HORIZONTALLY.	30 N MIN.	x		
FFC RETENTION FORCE	ASSEMBLE APPLICABLE FFC AND PULL HORIZONTALLY WITH 10mm/min IN MATING DIRECTION.	10 N MIN. <sup>(5)</sup>	x		
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x		
DRY HEAT	EXPOSED AT 85±2 °C, 96 h		x		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+5~+35→+85→+5~+35°C TIME 30→ 5 MAX→ 30→5 MAX min. UNDER 5 CYCLES.		x		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	x		
SULFUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)		x		
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
					
REMARKS <sup>(1)</sup> INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. <sup>(2)</sup> OPERATING TEMPERATURE SHOULD BE -55 TO 40 °C WHEN HUMIDITY EXCEEDS 80% RH <sup>(3)</sup> THE SPECIFICATION IS APPLIED TO THE PRE-ASSEMBLED COMPONENT AND THE CABLE ASSEMBLED PRODUCT BOTH IN DELIVERY AND STORAGE, BEFORE ASSEMBLED TO PCB. <sup>(4)</sup> THERE MUST NOT BE DEWFALL. <sup>(5)</sup> IT IS THE MAXIMUM VALUE OF CONNECTOR. CONFIRM THE SPECIFICATION OF THE CABLE. <sup>(6)</sup> ONLY FFC THAT PROCESSES THE TERMINAL THAT WE SPECIFIED. <sup>(7)</sup> DON'T INCLUDE CONDUCTOR RESISTANCE OF CABLE.			APPROVED	HS. OKAWA	09. 11. 24
			CHECKED	HT. YAMAGUCHI	09. 11. 20
			DESIGNED	AH. EDASHIGE	09. 11. 20
Unless otherwise specified, refer to JIS-C-5402.			DRAWN	AH. EDASHIGE	09. 11. 20
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-327150-00
	SPECIFICATION SHEET		PART NO.	FX16M2-51P-HC	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL575-3263-0-00	 1/1