

In case of consideration for using Autom otive equipm ent/device which dem and high reliability, kindly contactour sales w indow correspondents.

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT
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>					
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD			REQUIREMENTS		QT	AT
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		x	x
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: 20.5 N MAX. WITHDRAWAL FORCE: 2.05 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 ms <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>(8)</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. OF PARTS.		x	
DRY HEAT	EXPOSED AT 85±2 °C, 96 h						
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			
Δ							
<b>REMARKS</b> ① INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. ② OPERATING TEMPERATURE SHOULD BE -55 TO 40 °C WHEN HUMIDITY EXCEEDS 80% RH ③ THE SPECIFICATION IS APPLIED TO THE PRE-ASSEMBLED COMPONENT AND THE CABLE ASSEMBLED PRODUCT BOTH IN DELIVERY AND STORAGE, BEFORE ASSEMBLED TO PCB. ④ THERE MUST NOT BE DEWFALL. ⑤ IT IS THE MAXIMUM VALUE OF CONNECTOR, CONFIRM THE SPECIFICATION OF THE CABLE. ⑥ ONLY FFC THAT PROCESSES THE TERMINAL THAT WE SPECIFIED. ⑦ DON'T INCLUDE CONDUCTOR RESISTANCE OF CABLE.							
Note		QT: Qualification Test	AT: Assurance Test	X: Applicable Test			
Unless otherwise specified, refer to JIS-C-5402.		DRAWING NO.		ELC4-327149-00			
HRS		SPECIFICATION SHEET		PART NO.		FX16M2-41P-HC	
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL575-3262-7-00		Δ 1/1	
		DRAWING NO.		AH, EDASHIGE		09.11.20	
		DESIGNED		AH, EDASHIGE		09.11.20	
		CHECKED		HT, YAMAGUCHI		09.11.20	
		APPROVED		HS, OKAWA		09.11.24	