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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 (1) (2)	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (3)
	OPERATING HUMIDITY RANGE	RH 85 % MAX (2) (4)	STORAGE HUMIDITY RANGE	RH 70 % MAX(3) (4)
	VOLTAGE	60 V AC (5)	CURRENT	0.5A (5)
	APPLICABLE CABLE	**FFC** (6)		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	80 mΩ MAX. (7)	×	
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	×	
VOLTAGE PROOF	200 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 20.5 N MAX. WITHDRAWAL FORCE: 2.05 N MIN.	×	
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.	×	
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.	×	
SHOCK	490 m/s^2 , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		×	
LOCK STRENGTH	MATE TO APPLICABLE CONNECTOR AND APPLY PULL FORCE HORIZONTALLY.	30 N MIN.	×	
FFC RETENTION FORCE	ASSEMBLE APPLICABLE FFC AND PULL HORIZONTALLY WITH 10mm/min IN MATING DIRECTION.	10 N MIN. (6)	×	
ENVIRONMENTAL CHARACTERISTICS				
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.	×	
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.		×	
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.	×	
SULFUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)		×	

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0					

REMARKS
(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.
(2) OPERATING TEMPERATURE SHOULD BE -55 TO 40 ℃ 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.

Unless otherwise specified, refer to JIS-C-5402.

APPROVED	HS. OKAWA	09. 11. 24
CHECKED	HT. YAMAGUCHI	09. 11. 20
DESIGNED	AH. EDASHIGE	09. 11. 20
DRAWN	AH. EDASHIGE	09. 11. 20

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-327149-00

HRS	SPECIFICATION SHEET	PART NO.	FX16M2-41P-HC	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL575-3262-7-00	0 1/1

FORM HD0011-2-1