






Nov. 1. 2020 Copyright 2020 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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	-40 °C to 140 °C ⁽¹⁾	Storage Temperature Range	-10 °C to 60 °C ⁽²⁾	
	Voltage	125 V AC ⁽³⁾	Storage Humidity Range	Relative humidity 60% max (Not dewed)	
	Current	0.5 A	Operating Humidity Range	Relative humidity 85% max (Not dewed)	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
General Examination	Examined visually and with a measuring instrument.	According to the drawing.	x	x	
Marking	Confirmed visually.		x	x	
ELECTRICAL CHARACTERISTICS					
Contact Resistance	Measured at 100 mA MAX.(DC or 1000Hz)	65mΩ MAX.	x	—	
Insulation Resistance	Measured at 250 V DC.	1000 MΩ MIN.	x	—	
Voltage Proof	375 V AC applied for 1 min.	No flashover or breakdown.	x	—	
MECHANICAL CHARACTERISTICS					
Mating and Unmating Forces	Measured with an applicable connector.	Mating Force: 40 N MAX. Unmating Force: 4.4 N MIN.	x	—	
Mechanical Operation	Mated and unmated 10 times.	①Contact Resistance : 75mΩ MAX. ②No damage, cracks or looseness of parts.	x	—	
Vibration	Frequency 50~100 → 100~150 → 150~300Hz Acceleration 98 → 98~294 → 294 m/s ² 1 cycle 3 min 3 h for 3 axial directions ⁽⁴⁾	①No electrical discontinuity of more than 1 μs. ②No damage, cracks or looseness of parts.	x	—	
Shock	Acceleration 980 m/s ² , duration of pulse 6 ms at 3 times for 3 axial directions.		x	—	
ENVIRONMENTAL CHARACTERISTICS					
Damp Heat (Steady state)	Exposed at 60±2 °C, 90 ~ 95 %, 1000 h.	①Contact Resistance : 75mΩ MAX. ②Insulation Resistance : 100 MΩ MIN.	x	—	
Rapid Change of Temperature	Temperature -40 → +140 °C Time 30 → 30 min. under 1000 cycles. (Relocation time to chamber : within 2~3 MIN)	③No damage, cracks or looseness of parts.	x	—	
Cold	Exposed at -40°C, 1000 h	①Contact Resistance : 75mΩ MAX.	x	—	
Dry Heat	Exposed at 140°C, 1000 h	②No damage, cracks or looseness of parts.	x	—	
Sulfur Dioxide	Exposed at 40±2°C, 80±5%RH, 25 PPM for 96 h.	Contact Resistance : 75mΩ MAX.	x	—	
Resistance to Soldering Heat	1)Reflow soldering : Peak TMP : 260°C MAX Reflow TMP: 220°C MIN for 60sec 	No deformation of case of excessive looseness of the terminal.	x	—	
Solderability	Soldered at solder temperature 240±3°C for immersion duration, 3 sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	x	—	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-F-00006313	KI. YAMAZAKI	KN. SHIBUYA	20200708
Notes			APPROVED	HH. SHINDO	20190902
(1) Include temperature rise caused by current-carrying.			CHECKED	KN. SHIBUYA	20190902
(2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.			DESIGNED	TK. ABE	20190902
(3) The creepage distance conforms to IEC 60664-1. Voltage effective value: 32V AC, Pollution Degree: 2			DRAWN	KI. YAMAZAKI	20190902
(4) Amplitude between connector mounting part and PCB is 0.05mm MAX.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-376629-00-00	
	SPECIFICATION SHEET		PART NO.	FX26-40P-1SV	
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