

Applicable standard						
Rating	Operating Temperature Range	-35°C to +85°C (Note1)	Storage Temperature Range	-10°C to +60°C (Note3)		
	Operating Humidity Range	40% to + 80% (Note2)	Storage Humidity Range	40% to + 70% (Note3)		
	Voltage	100 V AC/DC	Applicable Connector	DF20%-*DS-1C		
	Current	AWG 28 : 1.0A/pin AWG 30 : 0.9A/pin	Applicable Wire	AWG 28 to 30		
				Jacket Diameter : 0.5 to 0.6mm		
Specifications						
Item		Test method		Requirements	QT	AT
Construction						
General Examination		Visually and by measuring instrument.		According to drawing.	X	X
Marking		Confirmed visually.			X	X
Electric Characteristics						
Contact Resistance Millivolt Level Method		20mV max, 1mA (DC or 1000Hz).		30 mΩ MAX.	X	—
Mechanical Characteristics						
Mechanical Operation		50 times insertion and extraction.		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 directions.		1) No electrical discontinuity of 1 μ s. 2) No damage, crack or looseness of parts.	X	—
Shock		Acceleration 500 m/s ² duration of pulse 11 ms at 3 times for 3 directions.		1) No electrical discontinuity of 1 μ s. 2) No damage, crack or looseness of parts.	X	—
Crimp Contact Tensile Strength		Fix the contact and pull the wire in vertical direction.		AWG 28 (7/0.127mm) : 10 N MIN. AWG 30 (7/0.102mm) : 8 N MIN.	X	—
Environmental Characteristics						
Damp Heat (Steady State)		Exposed at 40 ± 2°C , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Rapid Change Of Temperature		Temperature -55°C → +85°C Time 30min → 30min Under 5 Cycles. (The transferring time of the tank is 2 to 3 min) (After leaving the room temperature for 1 to 2h.)		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Dry Heat		Exposed at +85±2°C, 96h		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Cold		Exposed at -55±3°C, 96h		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Remarks						
Note 1 : Include the temperature rising by current.						
Note 2 : No condensing.						
Note 3 : Apply to unused product on packaged condition.						
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△0						
Unless otherwise specified, refer to IEC 60512.			APPROVED	SJ. OKAMURA	20210810	
			CHECKED	SZ. ONO	20210810	
			DESIGNED	SS. YAMASAKI	20210810	
			DRAWN	NK. OOSHIMA	20210806	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-164278-44-00	
HRS	SPECIFICATION SHEET		PART NO.	DF20F-2830SCFA (44)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0686-0042-6-44 △ 1/1		