

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C(NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C(NOTE 3)			
	OPERATING HUMIDITY RANGE	40% TO +80%(NOTE 2)	Storage Humidity range	40% TO +70%(NOTE 3)			
	VOLTAGE	100V AC	APPLICABLE CONNECTOR	DF19-*S-1C DF19G-*S-1C(05)			
	CURRENT	28 AWG : 1 A 30 AWG : 0.9 A	APPLICABLE CABLE	28-30 AWG			
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	20 mV MAX, 1 mA(DC or 1000Hz).		30 mΩ MAX.		X -		
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES	0.2 mm BY STEEL GAUGE		INSERTION FORCE : 3 N MAX EXTRACTION FORCE : 0.2 N MIN		X -		
MECHANICAL OPERATION	30 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 2 h, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X -		
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				X -		
ENVIRONMENTAL CHARACTERISTICS 							
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→5 TO 35→+85 →5 TO 35 °C TIME 30→2 TO 3 → 30 →2 TO 3 min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X -		
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.				X -		
OTHERS							
CRIMP TENSILE STRENGTH(NOTE4)	APPLY WIRE TENSILE STRENGTH TO CAULKING AREA AXIALLY UNTIL WIRE BECOME LOOSEN OR BREAKDOWN.		① 28 AWG (7/φ 0.127 mm) : 10 N MIN ② 30 AWG (7/φ 0.102 mm) : 8 N MIN		X -		
NOTE1:INCLUDE THE TEMPERATURE RISING BY CURRENT. NOTE2:NO CONDENSING NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE HARNESS ASSEMBLY. AFTER HARNESS ASSEMBLY, OPERATION TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. NOTE4:APPLICABLE WHEN THE CABLE CORE IS TIN-PLATED COPPER WIRE.							
△	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
△	1	DIS-H-00005649	HK. HAYASHI	SZ. ONO	20200117		
REMARKS				APPROVED	TY. OMA		
				CHECKED	HK. UMEHARA		
				DESIGNED	TS. KUMAZAWA		
Unless otherwise specified, refer to IEC 60512				DRAWN	AK. MIURA		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-302549-01		
	SPECIFICATION SHEET		PART NO.	DF19A-2830SCFA			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL685-0048-6-00	 1/1		