

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/DC	APPLICABLE CONNECTOR	DF19-*S-1C DF19G-*S-1C(05)	
	CURRENT	28 AWG : 1 A/PIN 30 AWG : 0.9 A/PIN	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.	X	—
SHOCK		490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	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	—
REMARKS 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
	2	DIS-H-00005721	HK. HAYASHI	HS. OKAWA	20200212
Unless otherwise specified, refer to IEC 60512.			APPROVED	HS. OKAWA	20181214
			CHECKED	SZ. ONO	20181214
			DESIGNED	SN. MIWA	20181214
			DRAWN	SN. MIWA	20181214
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-302549-41-00
	SPECIFICATION SHEET		PART NO.	DF19A-2830SCFA (41)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL685-0048-6-41	 1/1