

APPLICABLE STANDARD					
RATING △ 1	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	36 AWG : 0.5 A/PIN	APPLICABLE CABLE	36 AWG JACKET DIAMETER φ 0.27mm	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	
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 △ 1					
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 △ 1					
CRIMP TENSILE STRENGTH(NOTE4)		APPLY WIRE TENSILE STRENGTH TO CAULKING AREA AXIALLY UNTIL WIRE BECOME LOOSEN OR BREAKDOWN.		36 AWG (7/φ 0.05 mm) : 3.5 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
△	3	DIS-H-00005721	HK. HAYASHI	HS. OKAWA	20200212
Unless otherwise specified, refer to IEC 60512.				APPROVED	TY. OMA 20070406
				CHECKED	HK. UMEHARA 20070405
				DESIGNED	TS. KUMAZAWA 20070405
				DRAWN	AK. MIURA 20070404
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-164941-41-02
HRS	SPECIFICATION SHEET		PART NO.	DF19A-36SCFA (41)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL685-0047-3-41	△ 1/1