



**THE DATASHEET OF  
DF19A-2830SCFA**



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 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	-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	20070406
			CHECKED	HK. UMEHARA	20070405
Unless otherwise specified, refer to IEC 60512			DESIGNED	TS. KUMAZAWA	20070404
			DRAWN	AK. MIURA	20070404
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

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