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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/DC	APPLICABLE CONNECTOR	DF19-*S-1C(**) DF19G-*S-1C(**)	
	CURRENT	AWG 30 : 0.9 A/PIN AWG 32 : 0.8 A/PIN	APPLICABLE CABLE	AWG 30 TO 32 JACKET DIAMETER : φ 0.54 TO 0.58mm	
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 : 3.0 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 ² 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 AWG 30 (7/φ 0.102 mm) : 8 N MIN ② AWG 32 (7/φ 0.08 mm) : 5 N MIN	X	—
REMARKS NOTE1:INCLUDE THE TEMPERATURE RISING BY CURRENT. NOTE2:NO CONDENSING. NOTE3:APPLY TO UNUSED PRODUCT ON PACKAGED CONDITION. NOTE4:APPLICABLE WHEN THE CABLE CORE IS TIN-PLATED COPPER WIRE.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Unless otherwise specified, refer to IEC 60512.			APPROVED	SJ. OKAMURA	20210810
			CHECKED	SZ. ONO	20210810
			DESIGNED	SS. YAMASAKI	20210810
			DRAWN	YK. MITSUISHI	20210803
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-164752-41-01	
	SPECIFICATION SHEET		PART NO.	DF19A-3032SCFA (41)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0685-0046-0-41	1/1