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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(05)
	CURRENT	30 AWG : 0.9 A/PIN 32 AWG : 0.8 A/PIN	APPLICABLE CABLE	30-32 AWG

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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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	—
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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 ² 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 30 AWG (7/φ 0.102 mm) : 8 N MIN ② 32 AWG (7/φ 0.08 mm) : 5 N MIN	X	—
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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
			CHECKED	HK. UMEHARA
			DESIGNED	AH. MIYAZAKI
			DRAWN	AH. MIYAZAKI

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC-164752-00-01
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	SPECIFICATION SHEET	PART NO.	DF19A-3032SCFA	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL685-0046-0-00	 1/1