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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	-40 °C to +90 °C (90 %RH Max.)	Storage temperature range	-20 °C to +70 °C (90 %RH Max.)
	Power	-- W	Characteristic impedance	50 Ω (0 to 30 GHz)
	Peculiarity	----	Applicable cable	----

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.		--	--

ELECTRICAL CHARACTERISTICS

Contact resistance	10 mA Max.(DC or 1000 Hz)	Center contact 60 mΩ Max.	X	--
		Outer contact 20 mΩ Max.	X	--
Insulation resistance	100 V DC.	500 MΩ Min.	X	--
Withstanding voltage	200 V AC for 1 min. current leakage 2 mA Max.	No flashover or breakdown.	X	--
② Voltage standing wave ratio	Frequency 0 to 15 GHz.	VSWR 1.4 Max.	X	--
	Frequency 15 to 20 GHz.	VSWR 1.5 Max.		
	Frequency 20 to 30 GHz.	VSWR 1.6 Max.		
Insertion loss	Frequency - to - GHz.	--- dB Max.	--	--

MECHANICAL CHARACTERISTICS

Contact insertion and extraction forces	φ --- with steel gauge.	Insertion force --- N Max.	--	--
		Extraction force --- N Min.	--	--
Insertion and extraction forces	Measured with an applicable connector.	Insertion force 30 N Max.	X	--
		Extraction force 3 to 25 N	X	--
Mechanical operation	20 times insertion and extractions.	1)Contact resistance: Center contact 65 mΩ Max. Outer contact 25 mΩ Max. 2)No damage, cracks or looseness of parts.	X	--
Vibration	Frequency 10 to 100 Hz single amplitude 1.5 mm, 59 m/s ² over 5 cycles in 3 directions.	1)No electrical discontinuity of 1 μs. 2)No damage, cracks or looseness of parts.	X	--
Shock	735 m/s ² directions of pulse 11 ms at 3 times in 6 directions.		X	--
Cable clamp strength (Against cable pull)	Using a pulling tester, pull the cable axially at a rate of -- mm/min. and record the strength at which the cable or connector breaks.	-- N Min.	--	--

ENVIRONMENTAL CHARACTERISTICS

Damp heat	Exposed at +40 °C, 95 % total -- cycles.(96 h)	1)Insulation resistance: 10 MΩ Min. (at high humidity) 2) Insulation resistance: 500 MΩ Min. (when dry) 3)No damage, cracks or looseness of parts.	X	--
Rapid change of temperature	Temperature -40 → - → +90 → - °C Time 30 → 3 → 30 → 3 min. Under 5 cycles.	No damage, cracks or looseness of parts.	X	--

Count	Description of revisions	Designed	Checked	Date
① 1	DIS-D-00004497	YJ.HAGA	NK.NINOMIYA	20191023

Remark 1. The quantity of this product is 20,000 connectors per reel. ② Measured with an applicable inspection adapter. Unless otherwise specified, refer to IEC 60512.	Approved	KH.IKEDA	20171125
	Checked	MH.TSUCHIDA	20171125
	Designed	YJ.HAGA	20171125
	Drawn	YJ.HAGA	20171125

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing No.	ELC-375224-90-00
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HRS	SPECIFICATION SHEET	Part No.	C.FL-R-SMT-1(90)
	HIROSE ELECTRIC CO., LTD.	Code No.	CL331-2200-0-90