

May.1.2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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 +85°C (95%RH Max.)	Storage temperature range	-40°C to +85°C (95%RH Max.)		
	Power	— w	Characteristic impedance	50Ω (0 to 30 GHz)		
	Peculiarity	—	Applicable cable	—		
SPECIFICATIONS						
ITEM	TEST METHOD		REQUIREMENTS	QT	AT	
CONSTRUCTION						
General examination	Visually and with a measuring instrument.		According to the drawing.	X	X	
Marking	Confirmed visually.			—	—	
ELECTRICAL CHARACTERISTICS						
Contact resistance	10 mA Max. (DC or 1000 Hz).		Center contact	20 mΩ Max.	X	X
			Outer contact	10 mΩ Max.	X	X
Insulation resistance	100 V DC.		500 MΩ Min.		X	X
Withstanding voltage	250 V AC for 1 min. Current leakage 2mA Max.		No flashover or breakdown.		X	X
Voltage standing wave ratio	Frequency 0 to 15 GHz.		VSWR	1.3 Max.	X	—
	Frequency 15 to 20 GHz.		VSWR	1.4 Max.	X	—
	Frequency 20 to 30 GHz		VSWR	1.5 Max	X	—
Insertion loss	Frequency — to — GHz		— dB Max.		—	—
MECHANICAL CHARACTERISTICS						
Center contact extraction forces	HK side: φ0.91 ^{+0.005} ₀ with a steel gauge.		Extraction force	0.5 to 4.9 N	X	X
	C.FL side: φ0.15 ±0.002 with a steel gauge		Extraction force	0.2 to 2 N	X	X
Insertion and withdrawal forces	Measured with an applicable connector.		Insertion force	— N Max.	—	—
			Extraction force	— N Min.	—	—
Mechanical operation	500 times insertions and extractions		1) Contact resistance: Center contact 25 mΩ Max. Outer contact 15 mΩ Max. 2) No damage, cracks or looseness of parts.		X	—
Vibration	Frequency — to — Hz Single amplitude — mm, — m/s ² at — cycles for — directions.		1) No electrical discontinuity of — μs. 2) No damage, cracks or looseness of parts.		—	—
Shock	— m/s ² directions of pulse — ms at — times for — directions.				—	—
Cable clamp robustness (against cable pull)	Applying a pull force the cable axially at — N Max.		1) No withdrawal and breakage of cable. 2) No breakage of clamp.		—	—
ENVIRONMENTAL CHARACTERISTICS						
Damp heat, cyclic.	Subjected to +25 °C to +65 °C, at a humidity of 90 % to 96 % for 10 cycles (240H)		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 → 5-35 → +85 → 5-35°C Time 30 → 3 → 30 → 3 min. for 5 cycles.		No damage, cracks or looseness of parts.		X	—
Corrosion salt mist	Subjected to 5% salt water spray for 48 h.		Voltage standing wave ratio specification shall be met.		X	—
Δ	Count	Description of revisions	Designed	Checked	DATE	
0						
Remark			Approved	KH.IKEDA	18.03.07	
RoHS compliant			Checked	MH.TSUCHIDA	18.03.06	
			Designed	YJ.HAGA	18.03.06	
Unless otherwise specified, refer to IEC 60512.			Drawn	YJ.HAGA	18.03.06	
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			Drawing No.		ELC-381043-00-00	
HRS	SPECIFICATION SHEET		Part No.	C.FLP-HKJ		
	HIROSE ELECTRIC CO., LTD.		Code No.	CL311-0024-0-00	Δ	1/1