

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	-10°C TO +85°C(90%RH MAX)	STORAGE TEMPERATURE RANGE	-10°C TO +85°C(90%RH MAX)				
	POWER	_____ W	CHARACTERISTIC IMPEDANCE	50Ω ( 0 TO Δ 12 GHz)				
	PECULIARITY	_____	APPLICABLE CABLE	_____				
SPECIFICATIONS								
ITEM	TEST METHOD		REQUIREMENTS	QT	AT			
CONSTRUCTION								
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	×	×			
MARKING	CONFIRMED VISUALLY.			-	-			
ELECTRIC CHARACTERISTICS								
CONTACT RESISTANCE	mA MAX (DC OR 1000 Hz).		CENTER CONTACT	mΩ MAX.	-	-		
			OUTER CONTACT	mΩ MAX.	-	-		
INSULATION RESISTANCE	100 V DC		500	MΩ MIN.	×	-		
VOLTAGE PROOF	250 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.		NO FLASHOVER OR BREAKDOWN.					
VOLTAGE STANDING WAVE RATIO Δ	FREQUENCY 0.045 TO 6 GHz.		VSWR	1.3	MAX.	×	-	
	FREQUENCY 6 TO 10 GHz.		VSWR	1.4	MAX.			
	FREQUENCY 10 TO 12 GHz.		VSWR	1.6	MAX.			
INSERTION LOSS	FREQUENCY TO GHz.				dB	MAX.	-	-
MECHANICAL CHARACTERISTICS								
CONTACT INSERTION AND EXTRACTION FORCES	MEASURED BY STEEL GAUGE.		INSERTION FORCE	N	MAX.	-	-	
			EXTRACTION FORCE	N	MIN.	-	-	
INSERTION AND EXTRACTION FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE	N	MAX.	-	-	
			EXTRACTION FORCE	N	MIN.	-	-	
MECHANICAL OPERATION (W.FL2 SIDE)	10000 TIMES INSERTIONS AND EXTRACTIONS. (400-600 cycles per hour)		1) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	-	
VIBRATION	FREQUENCY TO Hz		1) NO ELECTRICAL DISCONTINUITY OF μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			-	-	
	SINGLE AMPLITUDE mm, m/s <sup>2</sup>							
SHOCK	AT CYCLES FOR DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			-	-	
	m/s <sup>2</sup> DIRECTIONS OF PULSE ms							
CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL)	AT TIMES FOR DIRECTIONS.		1) NO WITHDRAWAL AND BREAKAGE OF CABLE. 2) NO BREAKAGE OF CLAMP.			-	-	
	APPLYING A PULL FORCE THE CABLE AXIALLY AT N MAX.							
ENVIRONMENTAL CHARACTERISTICS								
DAMP HEAT,CYCLIC	EXPOSED AT TO °C, ~ %		1) INSULATION RESISTANCE: MΩ MIN. (AT HIGH HUMIDITY) 2) INSULATION RESISTANCE: MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			-	-	
	TOTAL CYCLES ( h )							
RAPID CHANGE OF TEMPERATURE	TEMPERATURE → → → °C		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			-	-	
	TIME → → → min.							
	UNDER CYCLES.							
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		Δ VSWR SPEC WITHIN STANDARD.			×	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
Δ	3	DIS-D-00004690	NK. NINOMIYA	TS. NOBE	20200207			
REMARK			APPROVED	TS. NOBE	20130422			
			CHECKED	NK. NINOMIYA	20130422			
			DESIGNED	YI. FUNADA	20130422			
			DRAWN	YI. FUNADA	20130422			
Unless otherwise specified, refer to JIS C 5402.								
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-343733-00			
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	W. FL2P-ML51. J-PA (F) -ST				
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL311-0457-4-00		Δ	1/1	