



In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		Q	AT	
 RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾⁽²⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽³⁾				
	VOLTAGE	60 V AC ⁽⁵⁾	OPERATING HUMIDITY RANGE	RH 85 % MAX ⁽²⁾⁽⁴⁾				
	CURRENT	0.5 A ⁽⁵⁾	STORAGE HUMIDITY RANGE	RH 70 % MAX ⁽³⁾⁽⁴⁾				
APPLICABLE CABLE		AWG 36,40 THIN COAXIAL CABLE / FCC ⁽⁶⁾						
SPECIFICATIONS								
ITEM		TEST METHOD		REQUIREMENTS		Q	AT	
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.				
GENERAL EXAMINATION		CONFIRMED VISUALLY.				x	x	
MARKING						x	x	
ELECTRIC CHARACTERISTICS								
CONTACT RESISTANCE		20 mV MAX, 1 mA(DC OR 1000HZ)		80m Ω MAX ⁽⁷⁾		x		
INSULATION RESISTANCE		100 V DC.		500 MΩ MIN.		x		
VOLTAGE PROOF		200 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		x		
MECHANICAL CHARACTERISTICS								
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR		INSERTION FORCE: 15.5 N MAX. WITHDRAWAL FORCE: 1.55 N MIN.		x		
MECHANICAL OPERATION		50 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x		
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.75 mm, AT 2 h FOR 3 DIRECTION.		① NO ELECTRICAL DISCONTINUITY OF 1 μs ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x		
SHOCK		490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		30 N MIN.		x		
LOOK STRENGTH		MATE TO APPLICABLE CONNECTOR AND APPLY PULL FORCE HORIZONTALLY.				x		
ENVIRONMENTAL CHARACTERISTICS								
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.		x		
DRY HEAT		EXPOSED AT 85±2 °C, 96 h.		② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x		
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→+5~+35→+85→+5~+35°C TIME 30→5 MAX→30→5 MAX min. UNDER 5 CYCLES.		① CONTACT RESISTANCE:NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR. NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.		x		
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)				x		
RESISTANCE TO SOLDERING HEAT		1)SOLDERING HEAT WELDER : PRESSURIZATION:15±2N (COAXIAL CABLE) HEATING Y:275±5°C, X:2±0.5 sec (FCC) HEATING Y:265±5°C, X:2.5±0.5 sec				x		
SOLDERABILITY		2) SOLDERING IRONS : 360°C MAX. FOR 3 sec. SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION: 3 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.		x		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	APPROVED	CHECKED	DATE		
2	DIS-F-004353	KN. SHIBUYA	HT. YAMAUCHI	HS. OKAWA	HT. YAMAUCHI	09.12.15		
REMARKS		APPROVED		CHECKED		DATE		
(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. (2) OPERATING TEMPERATURE SHOULD BE 55 TO 40°C WHEN HUMIDITY EXCEEDS 80% RH. (3) THE SPECIFICATION IS APPLIED TO THE PRE-ASSEMBLED COMPONENT AND THE CABLE ASSEMBLED PRODUCT BOTH IN DELIVERY AND STORAGE. BEFORE ASSEMBLED TO PCB (4) THERE MUST NOT BE DEWELL. (5) IT IS THE MAXIMUM VALUE OF CONNECTOR. CONFIRM THE SPECIFICATION OF THE CABLE. (6) ONLY FCC THAT PROCESSES THE TERMINAL THAT SPECIFIED. (7) DONT INCLUDE CONDUCTOR RESISTANCE OF CABLE. Unless otherwise specified, refer to JIS-C-5402.		DESIGNED		CHECKED		DATE		
		CHECKED		DESIGNED		DRAWN		
		HT. YAMAUCHI		TS. SHIBUYA		TS. SHIBUYA		08.05.24
		HS. OKAWA		TS. SHIBUYA		TS. SHIBUYA		08.05.24
Note		QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-158270-00		
HRS		SPECIFICATION SHEET		PART NO.		FX16-31P-0.5SDL		
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL575-3322-7-00		 1/1		

