


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

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		-10 °C TO 60 °C ⁽³⁾
 RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾⁽²⁾	OPERATING HUMIDITY RANGE	RH 85 % MAX ⁽²⁾⁽⁴⁾
	VOLTAGE	60 V AC ⁽⁵⁾	STORAGE HUMIDITY RANGE	RH 70 % MAX ⁽³⁾⁽⁴⁾
	CURRENT	0.5 A ⁽⁵⁾		
APPLICABLE CABLE		AWG 36,40 THIN COAXIAL CABLE / FCC ⁽⁶⁾		

SPECIFICATIONS

REQUIREMENTS

QT AT

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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)	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	

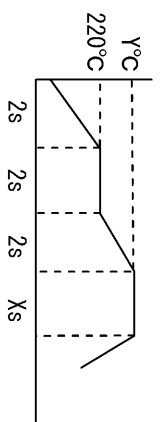
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.75 mm, AT 2 h FOR 3 DIRECTION.	① NO ELECTRICAL DISCONTINUITY OF 1 μs ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	

LOOK STRENGTH	MATE TO APPLICABLE CONNECTOR AND APPLY PULL FORCE HORIZONTALLY.	30 N MIN.	X	
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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	
SULFUR DIOXIDE			X	

RESISTANCE TO SOLDERING HEAT	1)SOLDERING HEAT WELDER : PRESSURIZATION:15±2N (COAXIAL CABLE) HEATING γ:275±5°C, X:2±0.5 sec (FCC) HEATING γ:265±5°C, X:2.5±0.5 sec		X	
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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	
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COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
2	DIS-F-004353	KN, SHIBUYA	HT, YAMAUCHI	09.12.15

REMARKS

(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 DOWELL.
 (5) IT IS THE MAXIMUM VALUE OF CONNECTOR. CONFIRM THE SPECIFICATION OF THE CABLE.
 (6) ONLY FCC THAT PROCESSES THE TERMINAL THAT WE SPECIFIED.
 (7) DON'T INCLUDE CONDUCTOR RESISTANCE OF CABLE.

Unless otherwise specified, refer to JIS-C-5402.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO.		ELC4-157674-00	
PART NO.		FX16-31P-0.5SD	
SPECIFICATION SHEET			
HIROSE ELECTRIC CO., LTD.		CODE NO.	QL575-3302-0-00
			
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