

APPLICABLE STANDARD						
<div>△</div> <div>RATING</div>	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 / FFC ⁽⁶⁾				
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		20 mV MAX, 1 mA(DC OR 1000Hz)		80mΩ MAX. ⁽⁷⁾	×	
INSULATION RESISTANCE		100 V DC.		500 MΩ MIN.	×	
VOLTAGE PROOF		200 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	×	
MECHANICAL CHARACTERISTICS						
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 15.5 N MAX. WITHDRAWAL FORCE: 1.55 N MIN.	×	
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.	×	
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.	×	
SHOCK		490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			×	
LOCK STRENGTH		MATE TO APPLICABLE CONNECTOR AND APPLY PULL FORCE HORIZONTALLY.		30 N MIN.	×	
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.	×	
DRY HEAT		EXPOSED AT 85±2 °C, 96 h				
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→+5~+35→+85→+5~+35°C TIME 30→ 5 MAX→ 30→5 MAX min. UNDER 5 CYCLES.		② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE:NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.	×	
SULFUR DIOXIDE		EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)		② NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	×	
RESISTANCE TO SOLDERING HEAT		1)SOLDERING HEAT WELDER : PRESSURIZATION:15±2N (COAXIAL CABLE) HEATING Y:275±5°C, X:2±0.5 sec (FFC) HEATING Y:265±5°C, X:2.5±0.5 sec 		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	
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.	×	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△	2	DIS-F-004353	KN. SHIBUYA	HT. YAMAGUCHI	09.12.15	
△	REMARKS			APPROVED	HS. OKAWA	08.05.24
(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 DEWFALL. (5) IT IS THE MAXIMUM VALUE OF CONNECTOR. CONFIRM THE SPECIFICATION OF THE CABLE. (6) ONLY FFC THAT PROCESSES THE TERMINAL THAT WE SPECIFIED. (7) DON'T INCLUDE CONDUCTOR RESISTANCE OF CABLE. Unless otherwise specified, refer to JIS-C-5402.			CHECKED	HT. YAMAGUCHI	08.05.24	
			DESIGNED	TS. SHIBUYA	08.05.24	
			DRAWN	TS. SHIBUYA	08.05.24	
			Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.
HRS	SPECIFICATION SHEET		PART NO.	FX16-31P-0.5SDL		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL575-3322-7-00	△	1/1