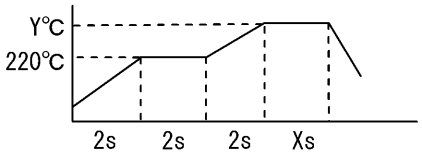
APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C (1) (2)	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (3)
	VOLTAGE	60 V AC (5)	OPERATING HUMIDITY RANGE	RH 85 % MAX (2) (4)
	CURRENT	0.5 A (5)	STORAGE HUMIDITY RANGE	RH 70 % MAX (3) (4)
	APPLICABLE CABLE	**AWG 36,40 THIN COAXIAL CABLE / 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: 10.5 N MAX. WITHDRAWAL FORCE: 1.05 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. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
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.		×	
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. ② NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	×	
SULFUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)		×	
RESISTANCE TO SOLDERING HEAT	1)SOLDERING HEAT WELDER : PRESSURIZATION:15±2N (COAXIAL CABLE) HEATING Y:275±5℃, X:2±0.5 sec (FFC) HEATING Y:265±5℃, X:2.5±0.5 sec  	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	
	2) SOLDERING IRONS : 360℃ MAX. FOR 3 sec.		×	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3℃ 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	2	DIS-F-004353	KN. SHIBUYA	HT. YAMAGUCHI	09. 12. 15

2 REMARKS
(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.
(2) OPERATING TEMPERATURE SHOULD BE -55 TO 40℃ 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.

APPROVED	HS. OKAWA	08. 05. 24
CHECKED	HT. YAMAGUCHI	08. 05. 24
DESIGNED	TS. SHIBUYA	08. 05. 13
DRAWN	TS. SHIBUYA	08. 05. 13

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

DRAWING NO. ELC4-158269-00

HRS	SPECIFICATION SHEET	PART NO.	FX16-21P-0.5SDL	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL575-3321-4-00	2 1/1

FORM HD0011-2-1