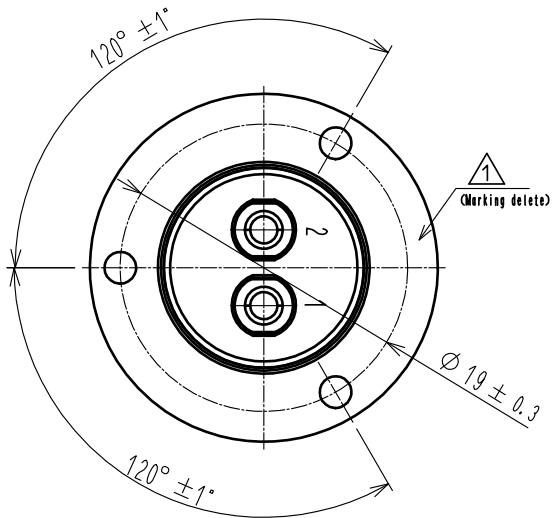
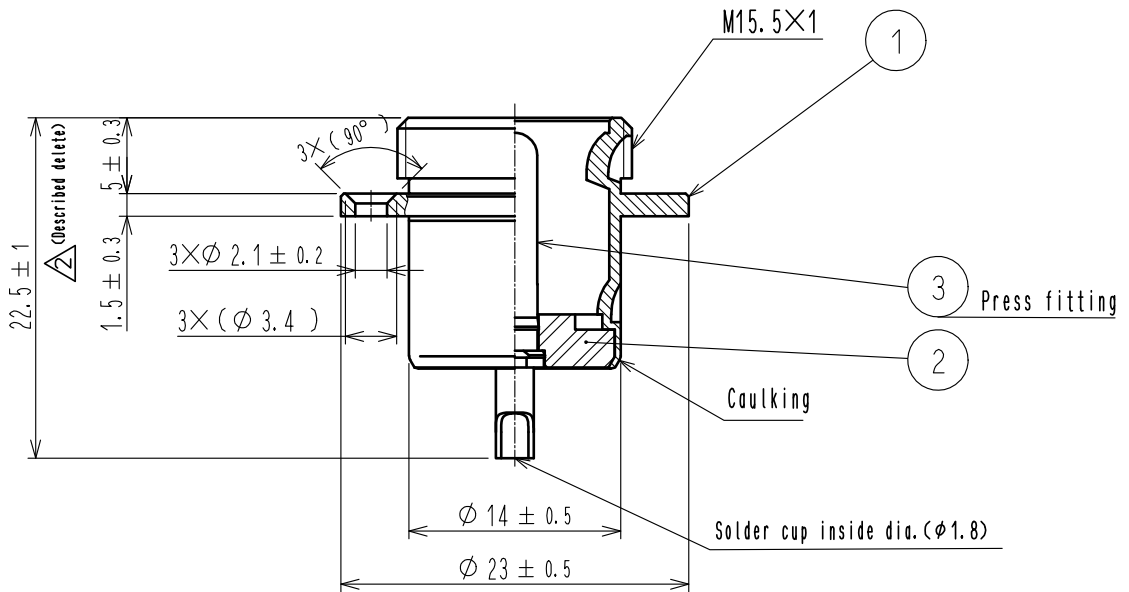
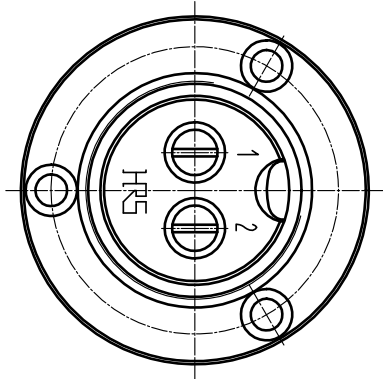


APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	AC 350 V, DC 500 V	_____	_____	
	CURRENT	7 A	_____	_____	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A	5 mΩ MAX.	X	X	
INSULATION RESISTANCE	500 V DC.	1000 MΩ MIN.	X	X	
VOLTAGE PROOF	1000 V AC. FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X	
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND WITHDRAWAL FORCES	$\phi 2.970^{+0}_{-0.003}$ BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : 1.5 N MIN	X		
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 30 N MAX.	X		
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE: 5 mΩ MAX.	X		
VIBRATION	FREQUENCY : 10 → 55 → 10(Hz) , SINGLE AMPLITUDE 0.75 mm. AT 2h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X		
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURATIONS OF PULSE 11 ms.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X		
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → R/T ⁽¹⁾ → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	① INSULATION RESISTANCE: 1000 MΩ MIN. \triangle ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION RUIN THE FUNCTION.	X		
DRY HEAT	EXPOSED AT + 85 °C , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X		
COLD	EXPOSED AT - 55 °C , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X		
RESISTANCE TO SOLDERING HEAT	SOLDERED AT SOLDERING IRON BIT TEMPERATURE +380±10°C FOR 3 ⁺¹ ₀ s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X		
SOLDERABILITY	SOLDERED AT SOLDERING IRON BIT TEMPERATURE +350±10°C FOR 2 TO 3 s.	WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X		
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
\triangle	1	DIS-C-00000966	HY. KISHI	HY. KOBAYASHI	16.05.14
REMARK			APPROVED	HY. KOBAYASHI	15.10.28
NOTE (1) R/T : ROOM TEMPERATURE.			CHECKED	HY. KOBAYASHI	15.10.28
Unless otherwise specified, refer to JIS C 5402. (IEC60512)			DESIGNED	HY. KISHI	15.10.28
			DRAWN	HY. KISHI	15.10.28
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-119227-00-00	
HRS	SPECIFICATION SHEET		PART NO.	HS12RA-2	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL101-0601-0-00	\triangle 1/1

1 2 3 4

A
B
C
D
E

A
B
C
D
E



2	PPS	Black (UL94V-0)					
1	Brass	Nickel plating	3	Brass	Nickel plating 0.8µm min.		
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS		
UNITS mm		SCALE 2 : 1	COUNT 1	DESCRIPTION OF REVISIONS DIS-C-00000645	DESIGNED HY. KISHI	CHECKED HY. KOBAYASHI	DATE 15.12.09
HRS HIROSE ELECTRIC CO., LTD.	APPROVED	HY. KOBAYASHI	15.10.28	DRAWING NO.	EDC-119227-00-00		
	CHECKED	HY. KOBAYASHI	15.10.28	PART NO.	HS12RA-2		
	DESIGNED	HY. KISHI	15.10.28	CODE NO.	CL101-0601-0-00		
	DRAWN	HY. KISHI	15.10.28				