



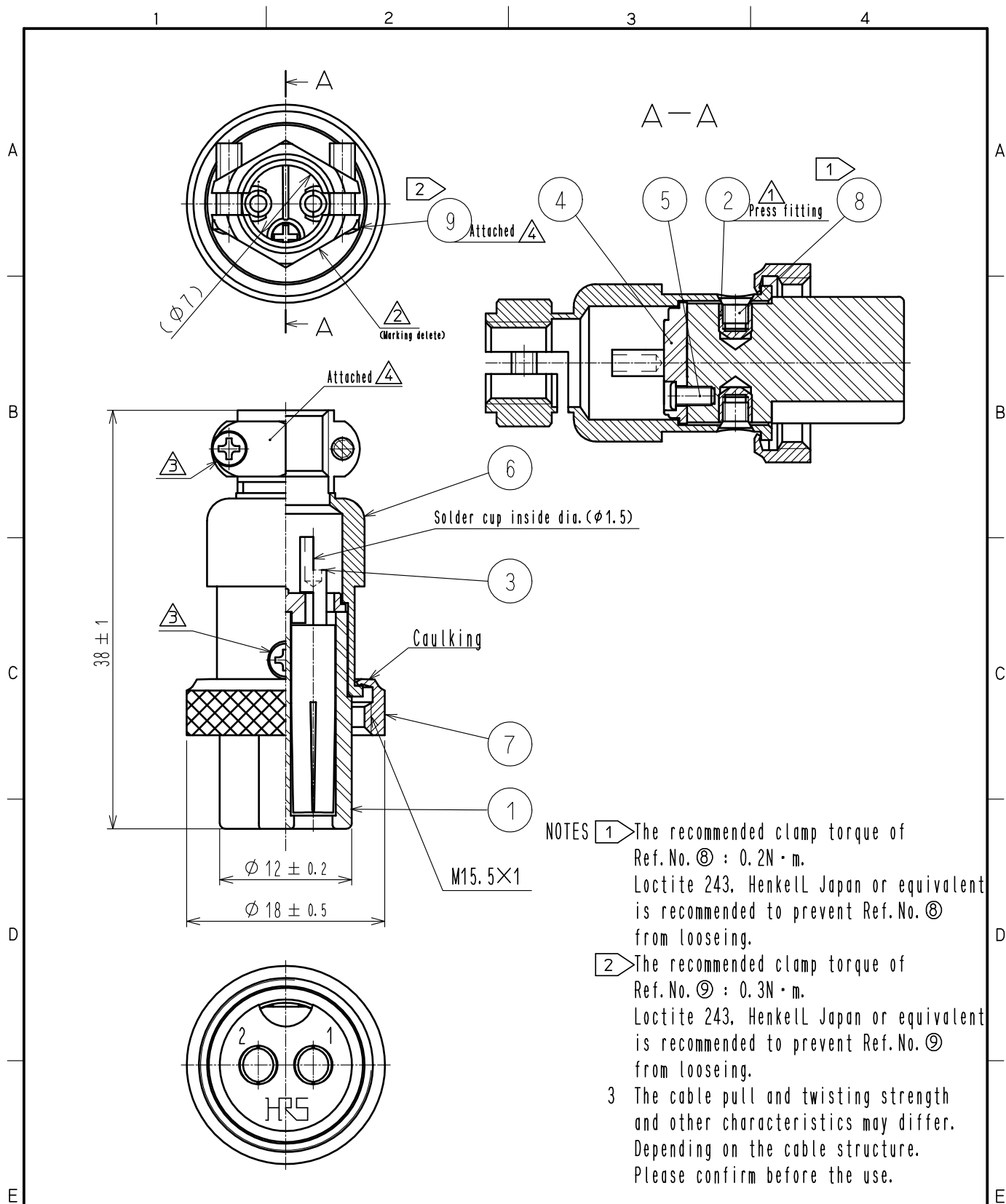


APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	AC 350 V , DC 500 V	_____	_____	
	CURRENT	7 A	APPLICABLE CABLE	φ7	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY 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		φ 2.970 <sup>0</sup> <sub>-0.003</sub> 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 <sup>2</sup> 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). ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→ R/T <sup>(1)</sup> → +85 → R/T °C TIME 30 →10 TO 15→ 30 →10 TO 15 min UNDER 5 CYCLES.	① INSULATION RESISTANCE: 1000 MΩ MIN.  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 <sup>+1</sup> <sub>0</sub> 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
	1	DIS-C-00000966	HY. KISHI	HY. KOBAYASHI	16.05.14
REMARK NOTE (1) R/T : ROOM TEMPERATURE.  Unless otherwise specified, refer to JIS C 5402. (IEC60512)			APPROVED	HY. KOBAYASHI	15.09.30
			CHECKED	HY. KOBAYASHI	15.09.30
			DESIGNED	HY. KISHI	15.09.30
			DRAWN	HY. KISHI	15.09.30
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-119226-00-00
	SPECIFICATION SHEET		PART NO.	HS12PA-2	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL101-0600-0-00	 1/1



- NOTES
- 1 The recommended clamp torque of Ref. No. ⑧ : 0.2N · m.  
Loctite 243, Henkell Japan or equivalent is recommended to prevent Ref. No. ⑧ from looseing.
  - 2 The recommended clamp torque of Ref. No. ⑨ : 0.3N · m.  
Loctite 243, Henkell Japan or equivalent is recommended to prevent Ref. No. ⑨ from looseing.
  - 3 The cable pull and twisting strength and other characteristics may differ. Depending on the cable structure. Please confirm before the use.

5	Steel	Nickel plating				
4	PPS	Black (UL94V-0)	9	Steel	$\Delta$	Nickel plating
3	Brass	Nickel plating 0.8 $\mu$ m min.	8	Steel	$\Delta$	Nickel plating
2	Brass	Nickel plating	7	Brass		Nickel plating
1	PPS	Black (UL94V-0)	6	Brass		Nickel plating
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS	
UNITS mm		SCALE 2 : 1	COUNT $\Delta$ 2	DESCRIPTION OF REVISIONS DIS-C-00000643	DESIGNED HY. KISHI	CHECKED HY. KOBAYASHI
APPROVED : HY. KOBAYASHI 15. 09. 30				DRAWING NO. EDC-119226-00-00		
CHECKED : HY. KOBAYASHI 15. 09. 30				PART NO. HS12PA-2		
DESIGNED : HY. KISHI 15. 09. 30				CODE NO. CL101-0600-0-00		
DRAWN : HY. KISHI 15. 09. 30				$\Delta$ 1/1		