
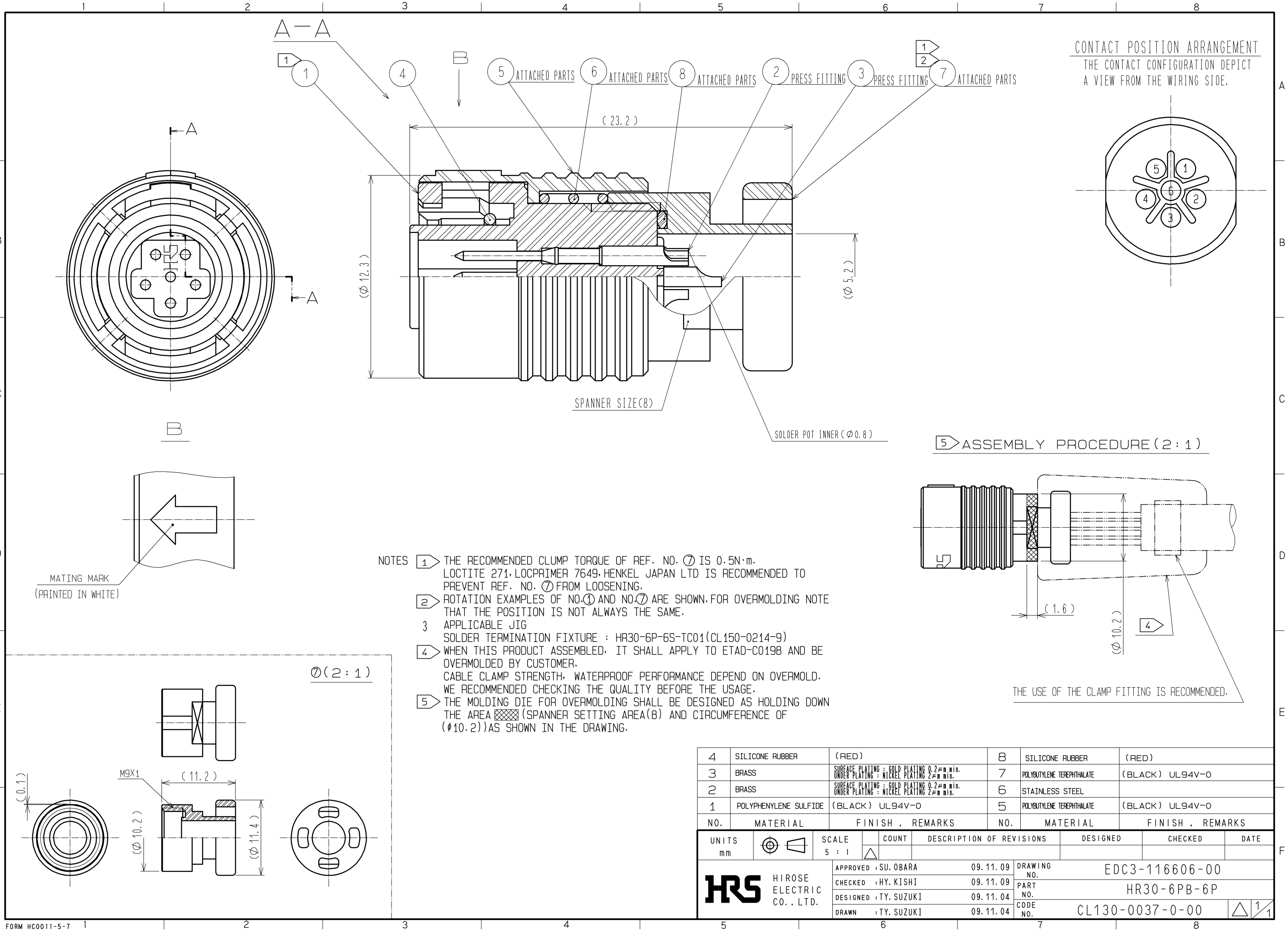


2010/04/14 01:42:32 CAROL, TRIBBLE

DRAWING FOR REFERENCE: This is subject to change without notice

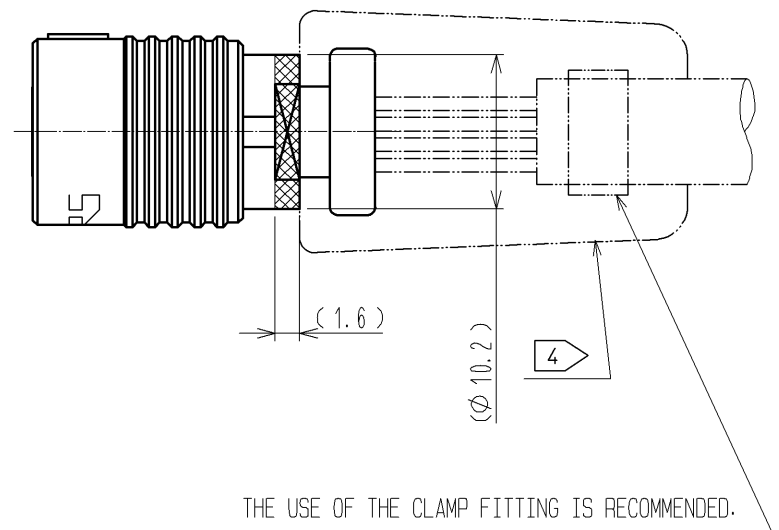
APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	AC 100 V , DC 140 V			
	CURRENT	2 A	APPLICABLE CABLE		
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A	15 mΩ MAX.	X	X	
INSULATION RESISTANCE	100 V DC.	1000 MΩ MIN.	X	X	
VOLTAGE PROOF	300 V AC. FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X	
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND WITHDRAWAL FORCES	— BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : — N MIN.	—	—	
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : — N MAX. LOCKING DEVICE WITH LOCK : 30 N MAX.	X	—	
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE: 30 mΩ MAX.	X	—	
VIBRATION	FREQUENCY: 10 → 55 → 10 (Hz) (1CYC, 5min), SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—	
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	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: 100 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	SOLDER TEMPERATURE +380±10°C, FOR IMMERSION DURATION, 3 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS	X	—	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 TO 3 s	SOLDER SURFACE TO BE FREE FROM PIN-HOLE, NO WETTING AND OTHER DEFECTS.	X	—	
SEALING	EXPOSED AT A DEPTH OF 1 m FOR 0.5 h.	NO WATER PENETRATION INSIDE CONNECTOR.	X	—	
AIRTIGHTNESS	APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.	NO AIR BUBBLES INSIDE CONNECTOR.	X	—	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Q					
REMARK			APPROVED	SU. OBARA	09. 11. 09
NOTES(1)R/T : ROOM TEMPERATURE			CHECKED	HY. KISHI	09. 11. 09
(2)SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.			DESIGNED	TY. SUZUKI	09. 11. 04
Unless otherwise specified, refer to JIS C 5402.			DRAWN	TY. SUZUKI	09. 11. 04
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-116606-00
HRS	SPECIFICATION SHEET		PART NO.	HR30-6PB-6P	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL130-0037-0-00	 1/1



CONTACT POSITION ARRANGEMENT
THE CONTACT CONFIGURATION DEPICT
A VIEW FROM THE WIRING SIDE.

5 ASSEMBLY PROCEDURE (2:1)

- NOTES
- 1 THE RECOMMENDED CLUMP TORQUE OF REF. NO. ⑦ IS 0.5N·m. LOCTITE 271, LOCPRIMER 7649, HENKEL JAPAN LTD IS RECOMMENDED TO PREVENT REF. NO. ⑦ FROM LOOSENING.
 - 2 ROTATION EXAMPLES OF NO.① AND NO.⑦ ARE SHOWN. FOR OVERMOLDING NOTE THAT THE POSITION IS NOT ALWAYS THE SAME.
 - 3 APPLICABLE JIG
SOLDER TERMINATION FIXTURE : HR30-6P-6S-TC01(CL150-0214-9)
 - 4 WHEN THIS PRODUCT ASSEMBLED, IT SHALL APPLY TO ETAD-C0198 AND BE OVERMOLDED BY CUSTOMER.
CABLE CLAMP STRENGTH, WATERPROOF PERFORMANCE DEPEND ON OVERMOLD. WE RECOMMENDED CHECKING THE QUALITY BEFORE THE USAGE.
 - 5 THE MOLDING DIE FOR OVERMOLDING SHALL BE DESIGNED AS HOLDING DOWN THE AREA (SPANNER SETTING AREA(B) AND CIRCUMFERENCE OF (φ10.2)) AS SHOWN IN THE DRAWING.



4	SILICONE RUBBER	(RED)	8	SILICONE RUBBER	(RED)
3	BRASS	SURFACE PLATING : GOLD PLATING 0.2μm min. UNDER PLATING : NICKEL PLATING 2μm min.	7	POLYBUTYLENE TEREPHTHALATE	(BLACK) UL94V-0
2	BRASS	SURFACE PLATING : GOLD PLATING 0.2μm min. UNDER PLATING : NICKEL PLATING 2μm min.	6	STAINLESS STEEL	
1	POLYPHENYLENE SULFIDE	(BLACK) UL94V-0	5	POLYBUTYLENE TEREPHTHALATE	(BLACK) UL94V-0
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS
UNITS mm		SCALE 5 : 1	COUNT		DESCRIPTION OF REVISIONS
DESIGNED		CHECKED		DATE	
APPROVED : SU. OBARA			09.11.09		
CHECKED : HY. KISHI			09.11.09		
DESIGNED : TY. SUZUKI			09.11.04		
DRAWN : TY. SUZUKI			09.11.04		
DRAWING NO.		EDC3-116606-00			
PART NO.		HR30-6PB-6P			
CODE NO.		CL130-0037-0-00			
				1/1	