APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE	AC 30 V , DC 42 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	—
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	ϕ0.53 ± 0.003 BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : 0.15 N MIN.	X	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : — N MAX. LOCKING DEVICE WITH LOCK : 50 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.	①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO 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	—
CONTACT RETENTION FORCE	APPLYING A PULL FORCE THE WIRE AFTER THE APPLICABLE CRIMPED CONTACT IS ASSEMBLED THE BODY.	20 N MIN.	X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ℃, 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 ℃ 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 CORROSIN RUIN THE FUNCTION.	X	—
DRY HEAT	EXPOSED AT + 85 ℃ , 96 h.	NO DAMAGE,CRACK AND LOOSENESS OF PARTS.	X	—
COLD	EXPOSED AT - 55 ℃ , 96 h.	NO DAMAGE,CRACK AND LOOSENESS OF PARTS.	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
A					

REMARK

NOTES(1)R/T : ROOM TEMPERATURE

(2)ABOVE SPECIFICATIONS SHOWS THE VELVE IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACT.

(3)SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.

(4)2 A RATE CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT.
THE CURRENT CAPACITY OF WHOLE CONNECTOR IS 20.4 A MAX.

Unless otherwise specified, refer to JIS C 5402.

APPROVED	SU.OBARA	09.12.09
CHECKED	HY.KISHI	09.12.09
DESIGNED	TY.SUZUKI	09.12.09
DRAWN	TY.SUZUKI	09.12.09

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

DRAWING NO. ELC4-116507-00

HRS

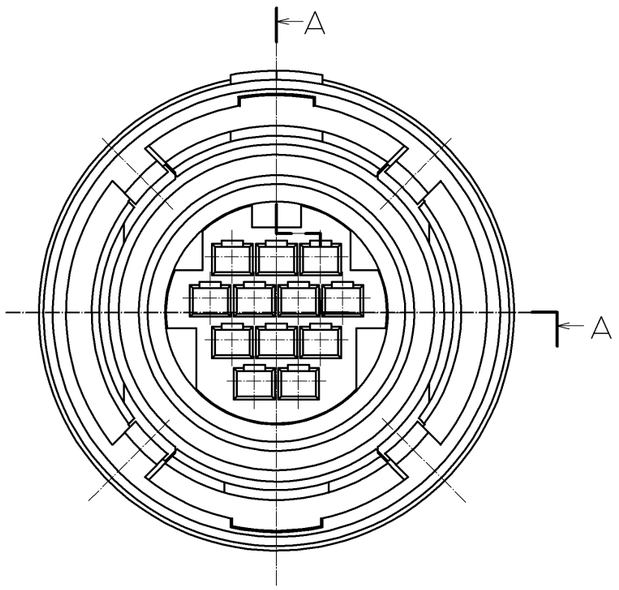
SPECIFICATION SHEET

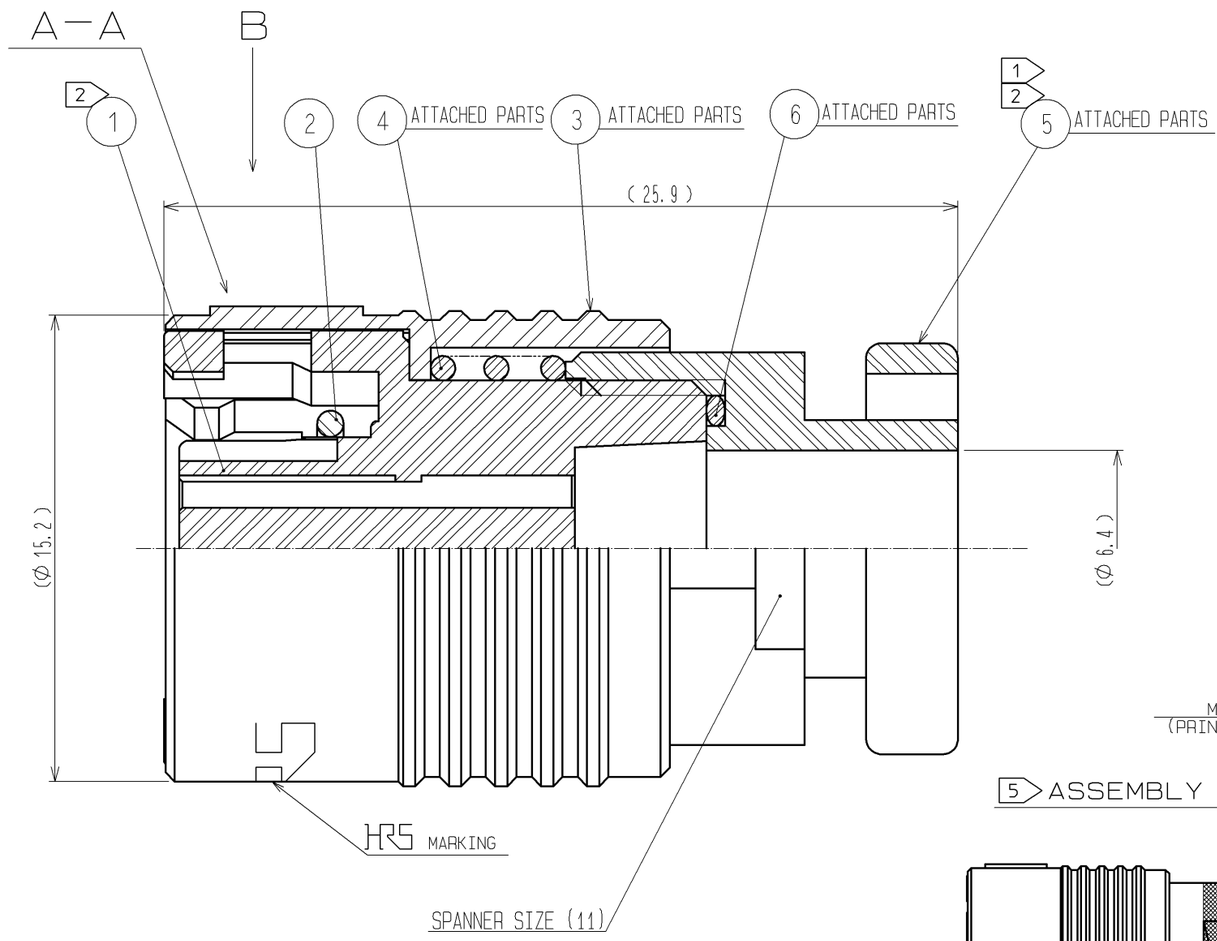
HIROSE ELECTRIC CO., LTD.

PART NO. HR30-7PB-12SC

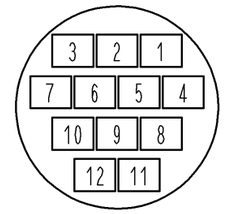
CODE NO. CL130-0033-0-00 A

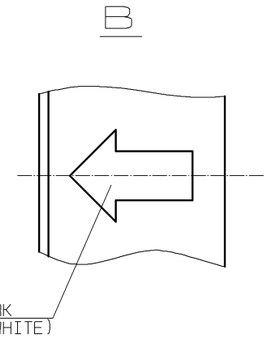
FORM HD0011-2-1



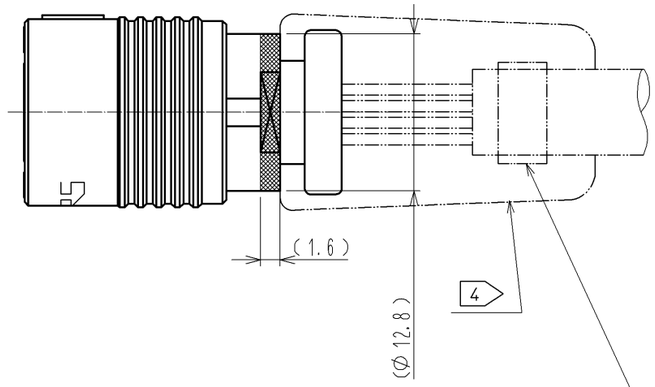


CONTACT POSITION ARRANGEMENT
THE CONTACT CONFIGURATION DEPICT
A VIEW FROM THE WIRING SIDE



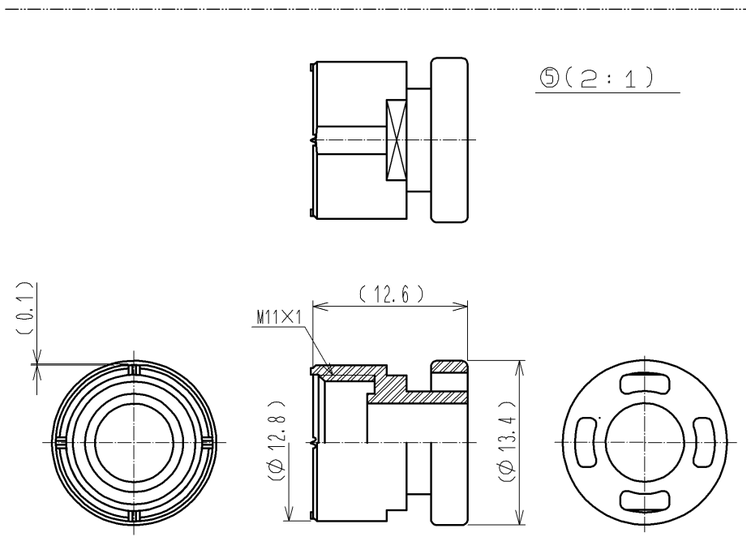


5 ASSEMBLY PROCEDURE(2:1)



THE USE OF THE CLAMP FITTING IS RECOMMENDED.

NOTES
1. THE RECOMMENDED CLUMP TORQUE OF REF. NO. ⑤ IS 0.5N·m.
LOCTITE 271, LOCPRIMER 7649, HENKEL JAPAN LTD IS RECOMMENDED TO PREVENT REF. NO. ⑤ FROM LOOSENING.
2. ROTATION EXAMPLES OF NO.① AND NO.⑤ ARE SHOWN. FOR OVERMOLDING NOTE THAT THE POSITION IS NOT ALWAYS THE SAME.
3 APPLICABLE JIG
SOLDER TERMINATION FIXTURE : HR30-7P-12SC-T01(CL150-0223-0)
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(11) AND CIRCUMFERENCE OF (φ12.8))AS SHOWN IN THE DRAWING.
6 APPLICABLE CRIMPING CONTACT : HR30-SC-211(CL130-0017-3)
(APPLICABLE WIRE 26 - 30 AWG, WIRE JACKET DIAMETER : φ0.1 MAX)
APPLICABLE CRIMP CONTACT EXTRACTION TOOL : HR30-TP(CL150-0219-2)



NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
3	POLYBUTYLENE TEREPHTHALATE	(BLACK) UL94V-0	6	SILICONE RUBBER	(RED)
2	SILICONE RUBBER	(RED)	5	POLYBUTYLENE TEREPHTHALATE	(BLACK) UL94V-0
1	POLYPHENYLENE SULFIDE	(BLACK) UL94V-0	4	STAINLESS STEEL	

UNITS	SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	5 : 1	△				

HIROSE ELECTRIC CO., LTD.

APPROVED	SU. OBARA	09.12.09
CHECKED	HY. KISHI	09.12.09
DESIGNED	TY. SUZUKI	09.12.09
DRAWN	TY. SUZUKI	09.12.09

DRAWING NO.	EDC3-116507-00
PART NO.	HR30-7PB-12SC
CODE NO.	CL130-0033-0-00

△ 1/1