

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-15 °C TO +60 °C	STORAGE TEMPERATURE RANGE	-15 °C TO +60 °C	
	VOLTAGE	AC 100 V, DC 140 V			
	CURRENT	1 A			
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	<input type="radio"/>	<input type="radio"/>	
MARKING	CONFIRMED VISUALLY.		<input type="radio"/>	<input type="radio"/>	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE ⁽¹⁾	CONTACT SHALL BE MEASURED AT DC 1 A	(CONTACT NO,1-10,13-16,19,20 : AWG30) 615 mΩ MAX.	<input type="radio"/>	<input type="radio"/>	
	CONTACT SHALL BE MEASURED AT DC 1 A	(CONTACT NO,11,12,17,18 : AWG28) 405 mΩ MAX.	<input type="radio"/>	<input type="radio"/>	
	GROUND SHALL BE MEASURED AT DC 1 A	158 mΩ MAX.	<input type="radio"/>	<input type="radio"/>	
INSULATION RESISTANCE	250 V DC.	200 mΩ MIN.	<input type="radio"/>	<input type="radio"/>	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	<input type="radio"/>	<input type="radio"/>	
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND WITHDRAWAL FORCES	— BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : — N	<input type="radio"/>	<input type="radio"/>	
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. LOCKING DEVICE.	INSERTION AND WITHDRAWAL FORCES : 5 TO 50 N.	<input type="radio"/>	<input type="radio"/>	
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE:(NO,1-10,13-16,19,20) 635 mΩ MAX.	<input type="radio"/>	<input type="radio"/>	
		CONTACT RESISTANCE:(NO,11,12,17,18) 425 mΩ MAX.	<input type="radio"/>	<input type="radio"/>	
		GROUND RESISTANCE: 198 mΩ MAX.	<input type="radio"/>	<input type="radio"/>	
VIBRATION	FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE 1.5 mm, — m/s ² AT 2h, FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	<input type="radio"/>	<input type="radio"/>	
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	<input type="radio"/>	<input type="radio"/>	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	1) INSULATION RESISTANCE: 2 MΩ MIN (AT HIGH HUMIDITY). 2) INSULATION RESISTANCE: 20 MΩ MIN (AT DRY). 3) NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="radio"/>	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -15 → R/T → +15 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	1) INSULATION RESISTANCE: 200 MΩ MIN. 2) NO DAMAGE. CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="radio"/>	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.	<input type="radio"/>	<input type="radio"/>	
DRY HEAT	EXPOSED AT + 60 °C , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="radio"/>	
COLD	EXPOSED AT - 15 °C , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="radio"/>	<input type="radio"/>	
SEALING	EXPOSED AT A DEPTH OF OF — m FOR — h.	NO WATER PENETRATION INSIDE CONNECTOR.	<input type="radio"/>	<input type="radio"/>	
AIRTIGHTNESS	APPLY AIR PRESSURE — Pa FOR — h TO INSIDE CONNECTOR.	NO ARI BUBBLES INSIDE CONNECTOR.	<input type="radio"/>	<input type="radio"/>	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK			APPROVED	HO. HASHIMOTO	12. 12. 06
(1) CONTACT RESISTANCE INCLUDES BULX RESISTANCE OF USED WIRE.			CHECKED	TS. FURUYA	12. 12. 06
			DESIGNED	MK. OGURA	12. 11. 30
Unless otherwise specified, refer to JIS C 5402.			DRAWN	MK. OGURA	12. 11. 30
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-349413-00
	SPECIFICATION SHEET		PART NO.	HR12A-14LA20PSD1400	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL112-3477-8-00	1/1

DRAWING FOR REFERENCE: This is subject to change without notice

In cases where the application will demand a high level of reliability, such as automotive, please contact a company representative for further information.

2018/04/05 04:48:56(JST) Rachelle Sheffer
 RoHS(6 substances conformity)
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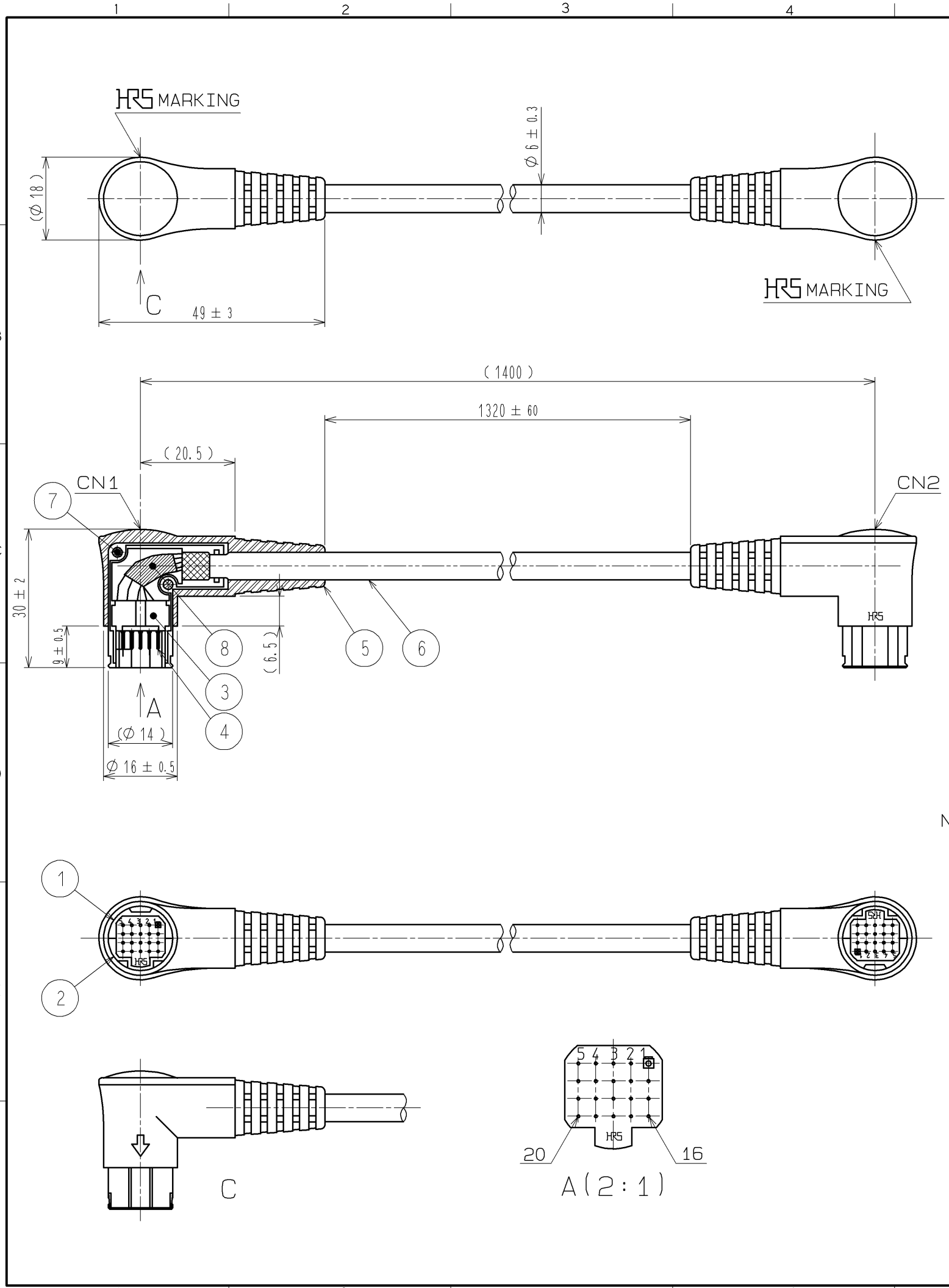


TABLE-1 WIRING

CONTACTNO.	READ WIRECOLOR	CONTACTNO.	READ WIRECOLOR
1	RED (AWG30)	11	BLACK (AWG28)
2	ORANGE (AWG30)	12	SKY BLUE (AWG28)
3	YELLOW (AWG30)	13	PINK (BLACK) (AWG30)
4	GRAY (AWG30)	14	VIOLET (BLACK) (AWG30)
5	WHITE (AWG30)	15	LEAF GREEN (AWG30)
6	PINK (AWG30)	16	SKY BLUE (BLACK) (AWG30)
7	VIOLET (AWG30)	17	BROWN (AWG28)
8	RED (BLACK) (AWG30)	18	BLUE (AWG28)
9	ORANGE (BLACK) (AWG30)	19	GRAY (BLACK) (AWG30)
10	YELLOW (BLACK) (AWG30)	20	WHITE (BLACK) (AWG30)
		REF NO. ① ②	BRAIDED SHIELD

TABLE-2 CABLE SPECIFICATIONS

COMPOSITION			
PVC INSULATION	COLOR DISTINCTION	RED, ORANGE, YELLOW, GRAY	BROWN
		WHITE, PINK, VIOLET, RED (BLACK)	BLUE
CONDUCTOR	OUTER DIAMETER	($\phi 0.7$)	($\phi 0.75$)
	COMPOSITION	$\phi 0.1/7$ (AWG#30)	$\phi 0.127/7$ (AWG#28)
	MATERIAL	TIN PLATED ANNEALED COPPER WIRE	
	BRAIDED SHIELD	COMPOSITION	$\phi 0.1/24/7$
JACKET	MATERIAL	TIN PLATED ANNEALED COPPER WIRE	
	OUTER DIAMETER	$\phi 6 \pm 0.3$	
	COLOR	BLACK	

- NOTES
- ① WIRING IS SHOWN IN THE TABLE-1.
 - ② CABLE SPECIFICATIONS ARE SHOWN IN THE TABLE-2.
 - ③ THE POSITION OF REFERENCE NO. ⑥ AND CN1, 2 ARE MATED BY THE SCREW. (THE POSITION OF CN1, 2 SHALL BE FREE.)
 - ④ CN1 AND CN2 SHALL BE IN THE SAME SPECIFICATION.

4	PHOSPHOR BRONZE	SILVER PLATED	8		(CLOTH ADHESIVE TAPE)		
3	PBT	(BLACK) UL94V-0	7	STEEL	NICKEL PLATED		
2	ZINC ALLOY	NICKEL PLATED	6	②	(BLACK) UL2990 SHIELDED CABLE, 20 CONDUCTORS		
1	ZINC ALLOY	NICKEL PLATED	5	PVC	(BLACK) UL94V-0		
NO.	MATERIAL	FINISH	REMARKS	NO.	MATERIAL	FINISH	REMARKS

UNITS	SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	1:1	△				
			APPROVED : HO. HASHIMOTO 12.12.06 CHECKED : TS. FURUYA 12.12.06 DESIGNED : MK. OGURA 12.11.30 DRAWN : MK. OGURA 12.11.30	DRAWING NO. EDC3-349413-00 PART NO. HR12A-14LA20PSD1400 CODE NO. CL112-3477-8-00		