APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-25 ℃ TO +85 ℃	STORAGE TEMPERATURE RANGE	-10 ℃ TO +60 ℃
	VOLTAGE	AC 30 V , DC 42 V	WIRE SIZE	AWG#26～#30 Sheathing Outer Diameter MAXφ1
	CURRENT	2 A	APPLICABLE CABLE	φ7.3±0.2

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A	30 mΩ MAX.	×	×
INSULATION RESISTANCE	100 V DC.	1000 MΩ MIN.	×	×
VOLTAGE PROOF	300 V AC. FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	×
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND WITHDRAWAL FORCES	φ0.53±0.003 BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : 0.15 N MIN.	×	–
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR WITHOUT LOCKING DEVICE.	INSERTION AND WITHDRAWAL FORCES : 50 N MAX.	×	–
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE: 30 mΩ MAX.	×	–
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.	×	–
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 3 DIMENSION AXIS FOR 3 TIMES AT 490 m/s^2 DURACTIONS OF PULSE 11 ms.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	–
BREAKING STRENGTH	MAX 10ON SHALL BE APPLIED TO CABLE IN UP AND DOWN, LEFT AND RIGHT DIRECTIONS WHEN MATED.	NO BREAKAGE MAX 10ON.	×	–
CONTACT RETENTION	AFTER INCORPORATING THE CRIMPED AND CONFORMING CONTACTS, A TENSILE LOAD IS APPLIED TO THE WIRE AND MEASURED.	20 N MIN.	×	–
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.	×	–
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ R/T(1) → +85 → R/T ℃ TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.	① INSULATION RESISTANCE: 100 MΩ MIN. ② NO DAMAGE.CRACK AND LOOSENESS OF PARTS.	×	–
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION RUIN THE FUNCTION.	×	–
DRY HEAT	EXPOSED AT + 85 ℃,96 h.	NO DAMAGE,CRACK AND LOOSENESS OF PARTS.	×	–
COLD	EXPOSED AT - 55 ℃,96 h.	NO DAMAGE,CRACK AND LOOSENESS OF PARTS.	×	–
SEALING(2)	EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.	NO WATER PENETRATION INSIDE CONNECTOR.	×	–
AIR TIGHTNESS(2)	APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.	NO AIR BUBBLES INSIDE CONNECTOR.	×	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

NOTES

Unless otherwise specified, refer to IEC 60512 (JIS C 5402).

APPROVED	TP.KOMATSU	20231227
CHECKED	EJ.KUNII	20231227
DESIGNED	MK.WADA	20231227
DRAWN	MK.WADA	20231227

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

DRAWING NO. ELC-381174-00-00

HRS	SPECIFICATION SHEET	PART NO.	LF10WBP-12SC	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0136-0041-0-00	A 1/1

FORM HD0011-2-1