APPLICABLE STANDARD				
Rating	Operating Temperature Range	−40 ℃ TO +85 ℃ (Note 1)	Applicable Cable	φ6.2±0.3

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
MECHANICAL CHARACTERISTICS				
Mechanical Operation	Mated and unmated 500 times. (With FI30-20S installed)	No damage, crack and looseness of parts.	X	—
Vibration	Frequency : 10 to 500 Hz, single amplitude 0.75 mm, 98 m/s^2 at 3h for 6 directions.	No damage, crack and looseness of parts.	X	—
Shock	490 m/s^2 duration of pulse 11 ms for 3 times in 3 both axial directions.	No damage, crack and looseness of parts.	X	—
ENVIRONMENTAL CHARACTERISTICS				
Rapid Change of Temperature	Temperature –40 → 5 to 35 → 105 → 5 to 35 ℃ Time 30 → 5 → 30 → 5 min Under 10 cycles.	No damage, crack and looseness of parts.	X	—
Damp Heat/ Current Carrying	Mated connector with contacts connected in series. Exposed with current carrying at temperature 85℃, humidity 85% for 1000h. DC 0.5A , 30V Leave at room temperature for 2h after testing. (With FI30-20S installed)	No damage, crack and looseness of parts.	X	—
Dry Heat/ Current Carrying	Mated connector with contacts connected in series. Exposed with current carrying at temperature 105℃, for 1000h. DC 0.5A , 30V Leave at room temperature for 2h after testing. (With FI30-20S installed)	No damage, crack and looseness of parts.	X	—
Cold Resistance	Leave at -40 ℃, for 500h Leave at 5 to 35℃ for 1 to 2h After testing.	No damage, crack and looseness of parts.	X	—
Corrosion Salt Mist	Exposed in 5 % salt water spray for 48 h.	No heavy corrosion.	X	—
Mixed Gas	Sulfur dioxide : 10 ppm Hydrogen sulfide : 3 ppm Temperature : 40 ± 2 ℃ Humidity : 70 to 80 % Exposed for 96 h	No heavy corrosion.	X	—
Machining Oil	Soak in machining oil at temperature 85 ℃,for 100h Tested with 3 different oils separately : UNISOLUBLE HD, UNISOLUBLE CC AND UNICUT TB15.	No damage, crack and looseness of parts.	X	—

(Note 1) The operation temperature includes the temperature rise by current carrying.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

REMARK

Unless otherwise specified, refer to IEC 60512.

APPROVED	RI. TAKAYASU	18. 06. 05
CHECKED	AH. KODAMA	18. 06. 05
DESIGNED	MO. SHIMOYAMA	18. 06. 05
DRAWN	MT. YASUDA	18. 06. 05

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

		DRAWING NO.	ELC-122396-50-01	
HRS	SPECIFICATION SHEET	PART NO.	FI-20-CVS2(50)	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL230-0531-5-50	△0 1/1

FORM HD0011-2-1