




APPLICABLE STANDARD					
Rating	Operating Temperature Range	-40°C to +105 °C (Note 1)	Storage Temperature Range	-10 °C to +60 °C (Note 2)	
	Voltage	100 V AC	Operating Humidity Range	- % to - %	
	Current	1 A / PIN	Applicable Cable	AWG#22 to AWG#26	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>					
General Examination	Visually and by measuring instrument.		According to drawing.	X	X
Marking	Confirmed visually.			X	X
<b>ELECTRICAL CHARACTERISTICS</b>					
Contact Resistance	100 mA (DC or 1000 Hz) max.		10 mΩ max. (Note 3)	X	-
<b>MECHANICAL CHARACTERISTICS</b>					
Contact insertion and Extraction Forces	Measured by applicable contact.		Insertion force : 4.4 N MAX. Extraction force : 0.3 N MIN.	X	-
Mechanical Operation	100 times insertions and extractions.		1) Contact resistance change : 20 mΩ MAX. (Note 3) 2) No damage, crack and looseness of parts.	X	-
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, 3 axial directions, 10 cycles each.		1) No electrical discontinuity of 1 μs. 2) No damage, crack and looseness of parts.	X	-
Shock	Acceleration 490 m/s <sup>2</sup> , duration of pulse 11 ms, for 3 times in 3 both axial directions.(half-sine wave)				
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
Rapid Change of Temperature	Temperature : -40 → 15 to 35 → 85 → 15 to 35 °C Time : 30 → 2 to 3 → 30 → 2 to 3 min. under 5 cycles.		1) Contact resistance change : 20 mΩ max. (Note 3) 2) Insulation resistance : 1000 MΩ MIN. 3) No damage, crack and looseness of parts.	X	-
Dry Heat	Exposed at 105 ± 2°C for 96 h. In mated state with applicable connector.			X	-
Cold	Exposed at -40 ± 3°C for 96 h. In mated state with applicable connector.			X	-
Damp Heat, Steady State	Exposed at 40 ± 2°C, 90 to 95%RH for 96 h. In mated state with applicable connector.			X	-
Corrosion Salt Mist	Exposed In 5 % salt water spray for 48 h. In mated state with applicable connector			X	-
Notes 1. The operation temperature includes the temperature rise by current carrying. 2. Storage temperature range shows storage condition for unused products including packing materials. Follow the operating temperature range for storage condition after mounting. 3. The cable conductor resistance is not considered.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
					
REMARK This specification sheet shows the performance with incorporated applicable crimp contacts and compatible connector. Unless otherwise specified, refer to IEC 60512.			APPROVED	RI. TAKAYASU	17.03.24
			CHECKED	AH. KODAMA	17.03.23
			DESIGNED	SG. CHAMURA	17.03.23
			DRAWN	SG. CHAMURA	17.03.23
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			DRAWING NO.		ELC-128865-00-00
	SPECIFICATION SHEET		PART NO.	MT50C-2226SCFA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL248-0014-0-00	 1/1

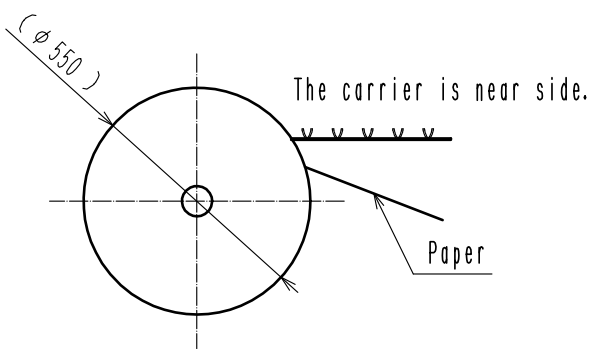
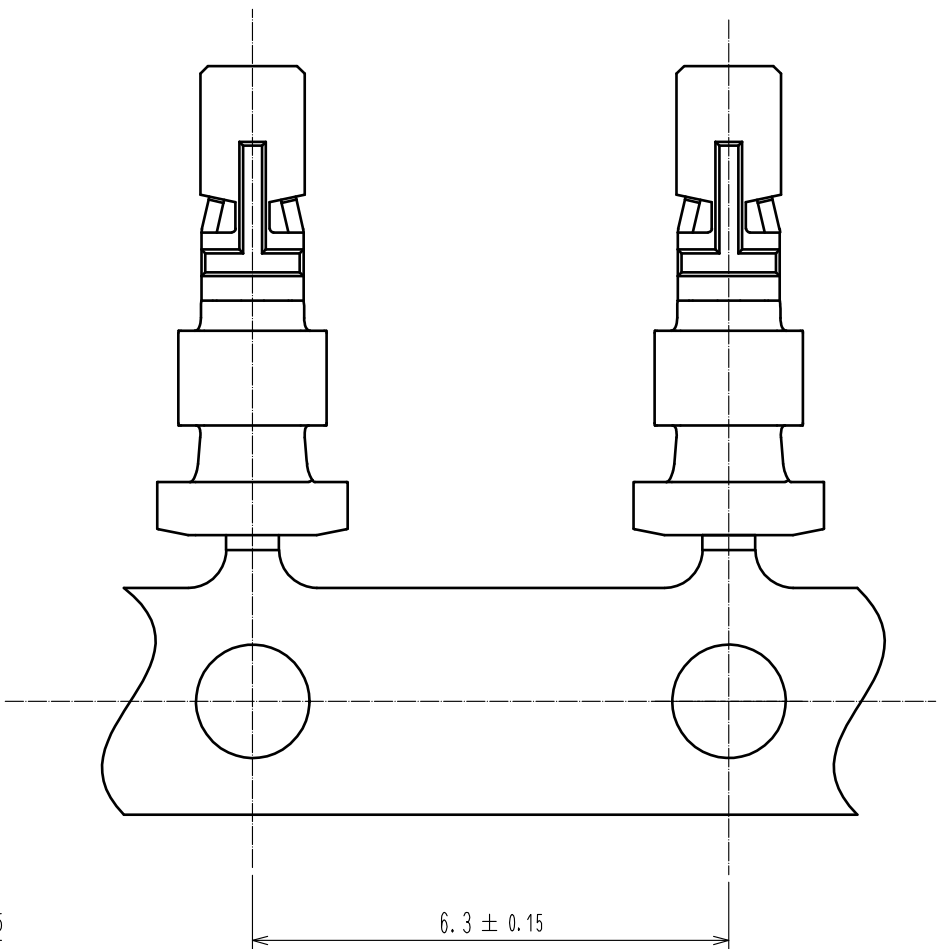
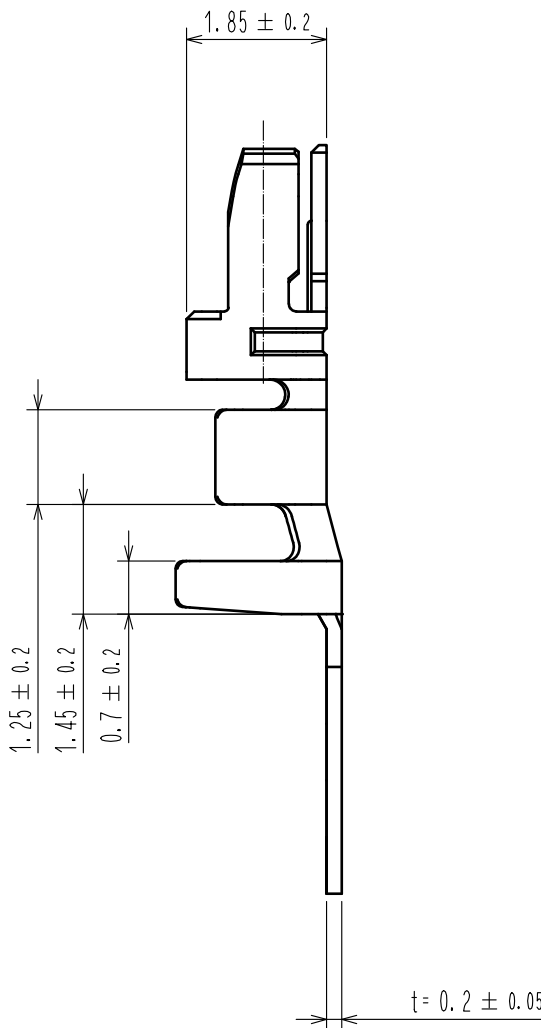
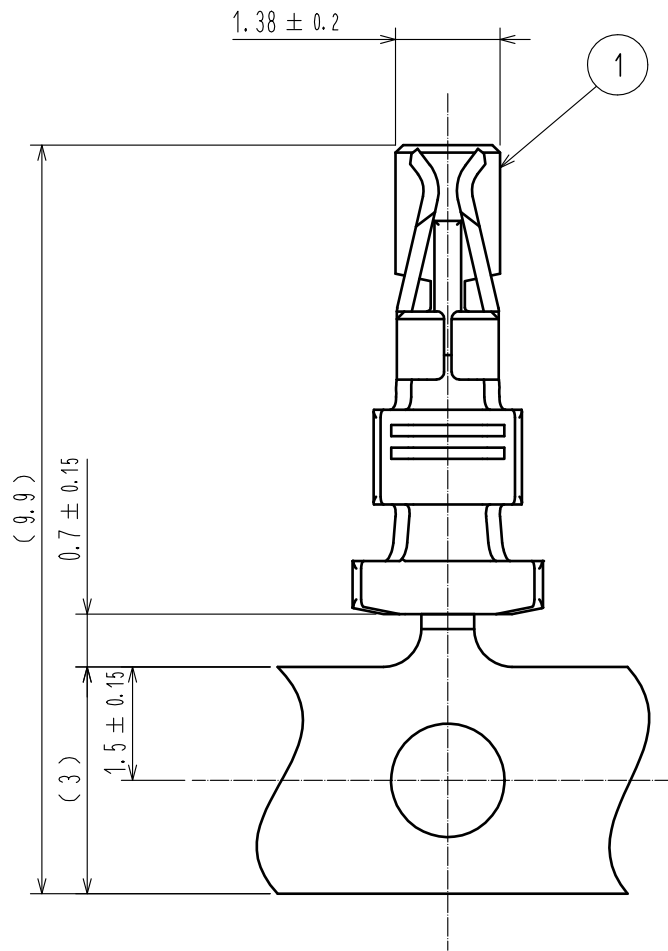
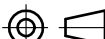





Fig.1 Reel Drawing

- Note
1. Applicable wire is AWG#22-#26. Insulation diameter  $\phi 1.18\text{mm}$  max.
  2. Per reel : 10000 contacts.
  3. Applicable crimping machine and crimping condions (crimp height etc.) will be specified according to AWG # or wire applied
  4. Refer to ATAI-E3148 for crimp quality standards.

				1	Copper Alloy		Contact area : Gold Plating min. 0.2μm Terminal area : Tin Plating min. 1μm Others : Nickel Plating min. 0.5μm			
NO.	MATERIAL		FINISH , REMARKS			NO.	MATERIAL		FINISH , REMARKS	
UNITS mm		SCALE 10 : 1		COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
 HIROSE ELECTRIC CO., LTD.			APPROVED :RI. TAKAYASU		17. 03. 21	DRAWING NO.		EDC-128865-00-00		
			CHECKED : AH. KODAMA		17. 03. 21	PART NO.		MT50C-2226SCFA		
			DESIGNED : SG. CHAMURA		17. 03. 21	CODE NO.		CL248-0014-0-00		
			DRAWN : SG. CHAMURA		17. 03. 21			 1 1		