Applicab	le standard												
Rating	Operating temperature range		-55 °C to +105°C (Note1)					Contact	AWG16	AWG18	AWG 20	AV	VG 22
realing	Operating humidity range		20% to 80% (Note2)		Current	1	15A	13A	11A		9A		
	Storage temperature range		-10 °C to +60°C (Note3)				2	14A	12A	10A		8A	
Storage hur		ty range	40% to 70% (Note3)				3	12A	10A	8A		7A	
	Applicable connector		DF63-*S-3.96C				$\Lambda$						
	Voltage		AC/DC 630V										
L .		Rated Voltage		Rated Current		Ove		ervoltage Category		IP-Degre		е	
UL,C-UL		600V AC/DC		Se	ee above					-			
TÜV		300V AC/DC		Se	ee above	П				IP00			
				Spec	ification	าร							
	Item	Test method			Requirements						QT	AT	
Construct	tion										<u> </u>		
General exa	amination	Visually and by measuring instrument.			Acc	cordin	g to drawir	ng.			Χ	Χ	
Marking	Marking		Confirmed visually.								•	Χ	Х
Electric	characterist	tics											
Contact resistance		20mV MAX, 1mA (DC or 1000Hz).			10 mΩ MAX.				Χ	_			
Insulation resistance		500 V DC.			100	1000 MΩ MIN.					Χ	-	
Voltage proof		1500 V AC for 1 min.			No flashover or breakdown.					Χ	_		
Mechani	cal charact	eristics											
Mechanical operation		30 times insertion and extraction.			①Contact resistance: 20 m Ω MAX. ②No damage, crack or looseness of parts.					Χ	_		
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.			10	①No electrical discontinuity of 1 $\mu$ s.					Χ	_	
Shock		490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times each for 3 both				②No damage, crack or looseness of parts.						Х	-
SHOCK		axial directions.				①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.						^	
Environm	ental charac	teristics				•					•		
Damp heat		Exposed at 40 ± 2°C , 90 to 95 %, 96 h.			①Contact resistance: 20 m Ω MAX.						Χ	_	
(Steady state)		(After leaving the room temperature for 1-2h.)				<b>2</b> I	②Insulation resistance: 500 M $\Omega$ MIN.						
						③No damage, crack or looseness of parts.							
Rapid change of temperature		Temperature -55°C→ +85°C				①Contact resistance: 20 m Ω MAX.						Χ	_
		Time 30min → 30min Under 5 cycles.				_	②Insulation resistance: 1000 MΩ MIN. ③No damage, crack or looseness of parts.						
		(The transferring time of the tank is 2 to 3 min)				(3)r	No dar	nage, craci	c or loosen	ess of part	S.		
		(After leaving the	e room temperature	e for 1 to 2h	.)								
Resistance to soldering heat		1) Automatic soldering (Flow) Soldered at solder temperature 260°c for in immersing duration 10s. 2)Manual soldering					No deformation of case of excessive looseness of the terminals.					V	
						of t						X	_
		Soldering iron temperature :300°C											
		Soldering tir											
		No strength on contact.											
Solderability		Soldered at solder temperature			A new uniform coating of solder shall cover				\ <u>'</u>				
		245°c for in immersing duration 5 s.				minimum of 95 % of the surface being immersed.					mersed.	Х	_

## Remarks

Note 1: Include the temperature rising by current.

Note 2: No condensing

Note 3: Apply to the condition of long term storage for unused products before mounted on PCB.

After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation.

	Count	Description of revisions	Designed		Checked	Date		
1	1	DIS-H-00004240	TS. KUMAZAWA		SZ. 0N0	20180925		
				Approved	HS. OKAWA	20170915		
			Checked	TS. FUKUSHIMA	MA 20170915			
Lin	loce other	rwise specified, refer to IEC 60512.		Designed	HT. SATO	20170915		
OII	iess other	wise specified, ferei to IEC 60312.		Drawn	MI. SAKIMURA	20170915		
No	te QT:Qu	alification Test AT:Assurance Test X:Applicable Tes	st Drawing	g no.	ELC-378594-00-00			
1	RS	Specification sheet	Part no.					
-		Hirose electric co., ltd.	Code no.		1/1			