


Jun.1.2026 Copyright 2026 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE				
△	5	RE-5-1833	OCU	JDH	17. 11. 30	△									
△						△									
APPLICABLE STANDARD															
RATING	OPERATING TEMPERATURE RANGE		-55℃ ~ +85℃			STORAGE TEMPERATURE RANGE		-10℃ ~ +50℃(Packed Condition)							
	VOLTAGE		50V [AC(rms) / DC]			OPERATING OR STORAGE HUMIDITY RANGE		Relative Humidity 90% MAX(NOT DEWED)							
	CURRENT		0.5A [AC(rms) / DC] (note1)			APPLICABLE CABLE		FPC (t=0.2±0.03mm)							
SPECIFICATIONS															
ITEM		TEST METHOD				REQUIREMENTS				QT	AT				
CONSTRUCTION															
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT				ACCORDING TO DRAWING				0	0				
MARKING		CONFIRMED VISUALLY								0	0				
ELECTRICAL CHARACTERISTICS															
CONTACT RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF 1mA DC(OR 1,000Hz)				100 mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)				0	0				
INSULATION RESISTANCE		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V				500 MΩ MIN.				0	0				
VOLTAGE PROOF		MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				0	0				
MECHANICAL CHARACTERISTICS															
FPC RETENTION FORCE		MEASURE BY APPLICABLE FPC/FFC(t=0.2) AT INITIAL CONDITION				①VERTICAL DIRECTION : 2.5 N MIN. △ ②HORIZONTAL DIRECTION : 2.5 N MIN.				0	-				
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS				①CONTACT RESISTANCE: 100mΩ MAX ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS				0	-				
VIBRATION		FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2h, 3 TIMES , IN 3 DIRECTIONS				①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 100mΩ MAX				0	-				
SHOCK		981m/s ² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.				③NO DAMAGE, CRACK AND LOOSENESS OF PARTS				0	-				
ENVIRONMENTAL CHARACTERISTICS															
DAMP HEAT(STEADY STATE)		EXPOSED AT 40℃, 90~95 %, 96Hr.				①CONTACT RESISTANCE: 100 mΩ MAX.				0	-				
RAPID CHAGE OF TEMPERATURE		TEMPERATURE : -55 → 15~35 → +85 → 15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. 5 CYCLES WITH ABOVE CONDITIONS. △				②INSULATION RESISTANCE: 50 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				0	-				
DAMP HEAT, CYCLE		TEMPERATURE -10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)				①CONTACT RESISTANCE: 100mΩ MAX. ②INSULATION RESISTANCE: 50 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				0	-				
DRY HEAT		EXPOSED AT 85℃, 96Hr				①CONTACT RESISTANCE : 100mΩ MAX				0	-				
COLD		EXPOSED AT -55℃, 96Hr				②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				0	-				
CORROSION SALT SPRAY		EXPOSED AT 35℃, 5 % SALT WATER SPRAY FOR 48Hr				①CONTACT RESISTANCE 100mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				0	-				
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38)				③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				0	-				
RESISTANCE TO SOLDERING HEAT		REFLOW SOLDERING: PROFILE : 217℃ 90~120s, 260℃ MAX.				①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE				0	-				
SOLDER ABILITY		SOLDER DIPPING TEMPERATURE 245±5℃ (TEST STANDARD : MIL-STD-202) 3±0.3 SEC △				A NEW UNIFORM COATING OF SOLDER △ SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING EMMERSED.				0	-				
(note 1) △ WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70% OF THE RATED CURRENT VALUE.															
REMARKS				CONDITIONS FOR TESTING		DRAWN		DESIGNED		CHECKED		APPROVED		RELEASED	
(NOTE 1) : CHECK TEST						M.G.KANG		M.G.KANG		D.H.CHO		H.C.SONG			
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.						15.06.05		15.06.05		15.06.05		15.06.05			
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST															
HIROSE KOREA CO.,LTD.				SPECIFICATION SHEET				PART NO. TF12SD-10S-0.5SH(800)							
CODE NO.(OLD)			DRAWING NO.			CODE NO.						1			
CL			ELC4-631685-80			CL 6586-0019-6-800						1			