	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					

APPLICABLE STANDARD

RATING	OPERATING TEMPERATURE RANGE	−40℃ ~ +105℃ *(note1)*	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] *(note2)*	APPLICABLE CABLE	FPC/FFC (TYPE A :t=0.3±0.03mm) (TYPE B : t=0.3±0.05mm)

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING	O	O
MARKING	CONFIRMED VISUALLY		O	O
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF AC 20mV MAX, 1mA	50 mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm)	O	O
INSULATION RESISTANCE	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V	500 MΩ MIN.	O	O
VOLTAGE PROOF	MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	O	O
MECHANICAL CHARACTERISTICS				
FPC RETENSION FORCE	MEASURE BY APPLICABLE FPC/FFC(t=0.3) AT INITIAL CONDITION	①HORIZONTAL DIRECTION : 6.4N min. ②VERTICAL DIRECTION : 4.8N min. *(note3)*	O	–
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRACTIONS	①CONTACT RESISTANCE: 50mΩ MAX ②NO DAMAGE,CRACK AND LOOSENESS OF PARTS	O	–
VIBRATION	FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2h, IN 3 DIRECTIONS	①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 50mΩ MAX ③NO DAMAGE,CRACK AND LOOSENESS OF PARTS	O	–
SHOCK	981m/s^2 DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.		O	–
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT(STEADY STATE)	EXPOSED AT 40±2℃, 90~95 %, 96Hr.	①CONTACT RESISTANCE: 50 mΩ MAX. ②INSULATION RESISTANCE: 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
RAPID CHANGE OF TEMPERATURE	TEMPERATURE:−40±2→15~35→+105±2→15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.		O	–
DAMP HEAT, CYCLE	TEMPERATURE −10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr)		O	–
DRY HEAT	EXPOSED AT 105±2℃, 96Hr	①CONTACT RESISTANCE : 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
COLD	EXPOSED AT −40±2℃, 96Hr		O	–
CORROSION SALT SPRAY	EXPOSED AT 35±2℃, 5±1% SALT WATER SPRAY FOR 48Hr	①CONTACT RESISTANCE 50mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	O	–
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA−38)	③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	O	–
RESISTANCE TO SOLDERING HEAT	1)REFLOW SOLDERING: PEAK TMP. : 250℃ MAX. TMP. 230℃ MIN FOR 60s 2)SOLDERING IRONS TMP. : 350±10℃ FOR 5±1s	①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE	O	–
SOLDER ABILITY	SOLDER DIPPING TEMPERATURE 245±5℃ (TEST STANDARD : MIL−STD−202) FOR IMMERSION DURATION, 3±0.3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSED.	O	–

(note 1)
FOLLOW THE SPECIFICATIONS OF FPC/FFC IF IT'S ALLOWABLE MAXIMUM OPERATING TEMPERATURE IS BELOW 105℃

(note 2)
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.

(note 3)
THERE'S A CASE WHICH FPC/FFC RETENTION FORCE DOESN'T FULFILL THE VALUE, BECAUSE FPC/FFC SPECIFICATION AFFECTS THE RESULT OF FPC/FFC RETENTION FORCE.

REMARKS CONDITIONS FOR TESTING	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	K.G.YANG	K.G.YANG	D.H.CHO	D.H.CHO	ENG
	21.03.29	21.03.29	21.03.29	21.03.29	22.04.07 DEPT
UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512.					

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

HIROSE KOREA CO.,LTD.	SPECIFICATION SHEET	PART NO. TF31−32(16)SB−1SH(800)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4−633349−80	CL 6535−0083−2−800	1/1