APPLIC/	ABLE STA												
OPERATING TEMPERATUR		IG TURE RANGE			TEMF		RE RANGE		10°C TO 50°C (P.	ACKEDO	CONDI	TION	
RATING	VOLTAGE	Ξ	50 V AC / DC		С	HUMIC	ATING OR STORAGE DITY RANGE		E RE	RELATIVE HUMIDITY 90 % MAX (N		NOT DEWED	
	CURRENT		0.5 A			LICABLE CABLE t=0.3±0.05mm, GC		OLD PI	DLD PLATING				
				SPEC	IFIC/	ATIO	NS						
ı	ITEM		TEST I	METHOD				RE	QUII	REMENTS		QT	A
CONSTI	RUCTIO	N											
GENERAL	EXAMINATI	ON VISUALL	Y AND BY MEAS	URING IN	STRUME	NT.	ACCO	RDING TO	DRA	WING.		×	×
MARKING		CONFIRM	MED VISUALLY.									×	×
ELECTF	RIC CHA	RACTERIS											
VOLTAGE F			FOR 1 min.				NO FL	ASHOVER	OR	BREAKDOWN.		×	×
INSULATION 100 V RESISTANCE		100 V DC	00 V DC.			500 MΩ MIN.					×	×	
		CE AC 20 m\	/ MAX(1 KHz),	, 1 mA .			50 mΩ	MAX.				×	×
CONTACT RESISTANCE AC 20 m						INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)				CE			
MECHA	NICAL C	HARACTE	ERISTICS										
VIBRATION FREC		0.75 mm,	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, — m/s <sup>2</sup> FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.			μs.				×	_		
SHOCK		981 m/s <sup>2</sup>	, DURATION O ES IN 3 BOTH A				② CONTACT RESISTANCE: 50 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	-	
			S INSERTIONS AND EXTRACTIONS.			CONTACT RESISTANCE: 50 mΩ MAX.     NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	-			
(THICKN			SURED BY APPLICABLE FPC. KNESS OF FPC SHALL BE t=0.30mm TIAL CONDITION.)			DIRECTION OF INSERTION : 3.6N MIN. (note 1)				×	$\vdash$		
FPC RETEI	NTION FOR	(THICKN	ESS OF FPC SH						OF IN	SERTION : 3.6N N	/IIN.	^	_
		(THICKN AT INITIA	ESS OF FPC SH	ALL BE t=0					OF IN	SERTION : 3.6N N	/IIN.		_
ENVIRO		(THICKN AT INITIA AL CHARA	ESS OF FPC SHA L CONDITION.) ACTERISTIC D AT 35±2 °C,	ALL BE t=0	0.30mm	SPRAY	(note	• 1) NTACT RE	SIST	SERTION : 3.6N N  ANCE: 100 mΩ i  CK AND LOOSEN	MAX.	×	_
ENVIRO	NMENT.	(THICKN AT INITIA AL CHARA ST EXPOSE	ESS OF FPC SHA L CONDITION.) ACTERISTIC D AT 35±2 °C,	ALL BE t=0	0.30mm	SPRAY	① COI ② NO OF I ③ NO AFF	NTACT REDAMAGE,	SIST CRA E OF OPE	ANCE: 100 mΩ l	MAX.		
ENVIRO	ONMENT. ON SALT MI	(THICKN AT INITIA AL CHARA ST EXPOSE FOR 96	ESS OF FPC SH.  LL CONDITION.)  ACTERISTIC  D AT 35±2 °C ,  3 h.  ATURE-55→+15	ALL BE t=0 CS 5 % SALT	0.30mm WATER :	o+35°C	① COI ② NO OF I ③ NO AFF CON ① COI ② INS	NTACT REDAMAGE, PARTS. EVIDENCECTS TO NNECTOR	SIST CRA E OF OPE	ANCE: 100 mΩ lock and loosen  CORROSION WE RATION OF  ANCE: 50 mΩ M STANCE: 50 MΩ I	MAX. NESS HICH MAX. MIN.		_
ENVIRO CORROSIO  RAPID CHA TEMPERAT	NMENT.  ON SALT MI  ANGE OF  TURE	(THICKN AT INITIAL CHARA)  AL CHARA  ST EXPOSE FOR 96  TEMPER TIME UNDER EXPOSE	ESS OF FPC SHALL CONDITION.)  ACTERISTIC D AT $35\pm2$ °C , 3 h.  ATURE-55 $\rightarrow$ +15 $30\rightarrow2$ 5 CYCLES. D AT $40\pm2$ °C	ALL BE t=0 $ \begin{array}{c} \hline{CS} \\ \hline{5 \% SALT} \\ \hline{6 \text{TO}} + 35 \rightarrow + 8 \\ \hline{7 \text{TO}} 3 \rightarrow \\ \hline{C}, \end{array} $	0.30mm WATER : 35→+15⊤c 30→ 2 то	o+35°C	(note	NTACT REDAMAGE, PARTS. EVIDENCECTS TO NNECTOR	SIST CRA E OF OPE	ANCE: $100 \text{ m}\Omega$ INCE: $100 \text$	MAX. NESS HICH MAX. MIN.	×	-
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA (STEADY S	ONMENT.  ON SALT MI  ANGE OF FURE  TT  TTATE)	TEMPER TIME UNDER EXPOSE RELATIV	ESS OF FPC SHALL CONDITION.)  ACTERISTIC D AT $35\pm2$ °C , S h.  ATURE- $55\rightarrow+15$ $30\rightarrow2$ 5 CYCLES. D AT $40\pm2$ °C E HUMIDITY	ALL BE t=0  S  5 % SALT  iTO+35→+8  TO 3 →  C, 90 TO 95	0.30mm WATER : 35→+15πc 30→ 2 πc %, 96	o+35°C o 3min	(note	NTACT REDAMAGE, PARTS. EVIDENCI ECTS TO NNECTOR NTACT REULATION DAMAGE, PARTS.	E OF OPE SIST RESI	ANCE: 100 mΩ l CK AND LOOSEN CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 MΩ I CK AND LOOSEN	MAX. NESS HICH MAX. MIN. NESS	×	
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA (STEADY S	ONMENT.  ON SALT MI  ANGE OF FURE  TT  TTATE)	TEMPER TIME UNDER EXPOSE RELATIV	ESS OF FPC SH, L CONDITION.)  ACTERISTIC D AT 35±2 °C , 5 h.  ATURE-55→+15 30→ 2 5 CYCLES. D AT 40±2 °C E HUMIDITY D AT -10 VE HUMIDITY S	ALL BE t=0 $ \begin{array}{c} \hline S\\ \hline 5\% \text{ SALT}\\ \hline 570+35\rightarrow+8\\ \hline 70 3 \rightarrow \hline C,  90 TO 95  \hline TO +6 \end{array} $	0.30mm WATER : 35→+15⊤c 30→ 2 то	o+35°C o 3min	(note	NTACT REDAMAGE, PARTS. EVIDENCE ECTS TO NECTOR ULATION DAMAGE, PARTS.	E OF OPE SIST RESI CRA	ANCE: 100 mΩ I CK AND LOOSEN CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 MΩ I CK AND LOOSEN  ANCE: 50 mΩ M STANCE: 1 MΩ	MAX. NESS HICH MAX. MIN. NESS MIN. NESS	×	
ENVIRO CORROSIO  RAPID CHA TEMPERAT	ONMENT.  ON SALT MI  ANGE OF FURE  TT  TTATE)	TEMPER TIME UNDER EXPOSE RELATIV	ESS OF FPC SH.  L CONDITION.)  ACTERISTIC  D AT $35\pm2$ °C ,  3 h.  ATURE-55 $\rightarrow$ +15 $30\rightarrow2$ 5 CYCLES.  D AT $40\pm2$ °C  E HUMIDITY  D AT -10  VE HUMIDITY S	S 5 % SALT 5 70 +35 → +8 TO 3 → C, 90 TO 95 TO +6 90 TO 96	0.30mm WATER : 35→+15πc 30→ 2 πc %, 96 65°C,	o+35°C o 3min	(note	NTACT REDAMAGE, PARTS. EVIDENCE ECTS TO NECTOR NTACT RE ULATION DAMAGE, PARTS.  NTACT RE ULATION AT HIGH ULATION AT DRY)	ESIST CRA E OF OPE SIST RESI CRA ESIST RESI HU	ANCE: 100 mΩ I CK AND LOOSEN CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 MΩ I CK AND LOOSEN  ANCE: 50 mΩ M STANCE: 1 MΩ MIDITY)	MAX. NESS HICH  MAX. MIN. NESS  MAX. MIN. MIN.	×	
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA (STEADY S	ANGE OF TURE	TEMPER TIME UNDER EXPOSE RELATIV 10 CYC	ESS OF FPC SH.  L CONDITION.)  ACTERISTIC  D AT $35\pm2$ °C ,  3 h.  ATURE-55 $\rightarrow$ +15 $30\rightarrow2$ 5 CYCLES.  D AT $40\pm2$ °C  E HUMIDITY  D AT -10  VE HUMIDITY S	ALL BE t=0  S  5 % SALT  5 70 + 6  90 TO + 6  90 TO 96  40 h.	0.30mm WATER : 35→+15πc 30→ 2 πc %, 96 65°C,	o+35°C o 3min	(note	NTACT REDAMAGE, PARTS. EVIDENCE ECTS TO NECTOR NTACT RE ULATION DAMAGE, PARTS. NTACT RE ULATION AT HIGH ULATION DAMAGE, TORY) DAMAGE,	ESIST CRA E OF OPE SIST RESI CRA ESIST RESI HU	ANCE: 100 mΩ I CK AND LOOSEN CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 mΩ M ANCE: 50 mΩ M STANCE: 1 MΩ MIDITY) STANCE: 50 MΩ I	MAX. NESS HICH  MAX. MIN. NESS  MAX. MIN. MIN.	×	TE
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA (STEADY S  DAMP HEA	ANGE OF TURE	TEMPER TIME UNDER EXPOSE RELATIV 10 CYC	ESS OF FPC SHALL CONDITION.) ACTERISTIC D AT 35±2 °C , 5 h.  ATURE-55→+15 30→ 2 5 CYCLES. D AT 40±2 °C E HUMIDITY D AT -10 VE HUMIDITY 9 CLES, TOTAL 2	ALL BE t=0  S  5 % SALT  5 70 + 6  90 TO + 6  90 TO 96  40 h.	0.30mm WATER : 35→+15πc 30→ 2 πc %, 96 65°C,	o+35°C o 3min h.	(note	NTACT REDAMAGE, PARTS. EVIDENCE ECTS TO NECTOR NTACT RE ULATION DAMAGE, PARTS. NTACT RE ULATION AT HIGH ULATION DAMAGE, TORY) DAMAGE,	ESIST CRA E OF OPE SIST RESI CRA ESIST RESI HU	ANCE: 100 mΩ I CK AND LOOSEN  CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 mΩ M CK AND LOOSEN  ANCE: 1 MΩ MIDITY) STANCE: 50 MΩ I CK AND LOOSEN	MAX. NESS HICH  MAX. MIN. NESS  MAX. MIN. MIN.	×	TE
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA (STEADY S DAMP HEA	ANGE OF TURE	TEMPER TIME UNDER EXPOSE RELATIV 10 CYC	ESS OF FPC SHALL CONDITION.) ACTERISTIC D AT 35±2 °C , 5 h.  ATURE-55→+15 30→ 2 5 CYCLES. D AT 40±2 °C E HUMIDITY D AT -10 VE HUMIDITY 9 CLES, TOTAL 2	ALL BE t=0  S  5 % SALT  5 70 + 6  90 TO + 6  90 TO 96  40 h.	0.30mm WATER : 35→+15πc 30→ 2 πc %, 96 65°C,	o+35°C o 3min h.	(note	NTACT REDAMAGE, PARTS. EVIDENCE ECTS TO NECTOR NTACT RE ULATION DAMAGE, PARTS. NTACT RE ULATION AT HIGH ULATION DAMAGE, TORY) DAMAGE,	ESIST CRA E OF OPE SIST RESI CRA ESIST HU RESI	ANCE: 100 mΩ I CK AND LOOSEN  CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 mΩ M CK AND LOOSEN  ANCE: 1 MΩ MIDITY) STANCE: 50 MΩ I CK AND LOOSEN	MAX. NESS HICH  MAX. MIN. NESS  MAX. MIN. NESS	×	
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA (STEADY S DAMP HEA	ANGE OF TURE	TEMPER TIME UNDER EXPOSE RELATIV 10 CYC	ESS OF FPC SHALL CONDITION.) ACTERISTIC D AT 35±2 °C , 5 h.  ATURE-55→+15 30→ 2 5 CYCLES. D AT 40±2 °C E HUMIDITY D AT -10 VE HUMIDITY 9 CLES, TOTAL 2	ALL BE t=0  S  5 % SALT  5 70 + 6  90 TO + 6  90 TO 96  40 h.	0.30mm WATER : 35→+15πc 30→ 2 πc %, 96 65°C,	o+35°C o 3min h.	(note	NTACT RE DAMAGE, PARTS. EVIDENCI ECTS TO NNECTOR NTACT RE ULATION DAMAGE, PARTS.  NTACT RE ULATION AT HIGH ULATION AT DRY) DAMAGE, PARTS.	E OFFOOPE SIST CRA E OFFOOPE CRA ESIST RESI CRA ED	ANCE: 100 mΩ I CK AND LOOSEN  CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 mΩ M STANCE: 1 MΩ MIDITY) STANCE: 50 MΩ I ACK AND LOOSEN  ANCE: 50 MΩ I CK AND LOOSEN  CHECKED	MAX. NESS HICH  MAX. MIN. NESS  MIN. NESS	× × ×	1. 1
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA (STEADY S DAMP HEA	ANGE OF TURE	TEMPER TIME UNDER EXPOSE RELATIV 10 CYC	ESS OF FPC SHALL CONDITION.) ACTERISTIC D AT 35±2 °C , 5 h.  ATURE-55→+15 30→ 2 5 CYCLES. D AT 40±2 °C E HUMIDITY D AT -10 VE HUMIDITY 9 CLES, TOTAL 2	ALL BE t=0  S  5 % SALT  5 70 + 6  90 TO + 6  90 TO 96  40 h.	0.30mm WATER : 35→+15πc 30→ 2 πc %, 96 65°C,	o+35°C o 3min h.	(note	NTACT RE DAMAGE, PARTS. EVIDENCE ECTS TO NNECTOR NTACT RE ULATION DAMAGE, PARTS.  NTACT RE ULATION AT HIGH ULATION DAMAGE, PARTS.	ED ED	ANCE: 100 mΩ I CK AND LOOSEN  CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 mΩ M STANCE: 50 mΩ M STANCE: 1 MΩ MIDITY) STANCE: 50 MΩ I CK AND LOOSEN  CHECKED	MAX. NESS HICH  MAX. MIN. NESS  MIN. NESS	x x x x DA	1. 1: 1. 1:
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA STEADY S DAMP HEA  COUNT  COUNT	ANGE OF FURE  TATE  TATE	TEMPER TIME UNDER EXPOSE RELATIV 10 CYC	ESS OF FPC SHALL CONDITION.) ACTERISTIC D AT 35±2 °C , 5 h.  ATURE-55→+15 30→ 2 5 CYCLES. D AT 40±2 °C E HUMIDITY D AT -10 VE HUMIDITY 9 CLES, TOTAL 2	ALL BE t=0  S  5 % SALT  6T0+35→+8  T0 3 →  C,  90 TO 95  TO +6  90 TO 96  40 h.	0.30mm WATER : 35→+15πc 30→ 2 πc %, 96 65°C,	o+35°C o 3min h.	(note	NTACT RE DAMAGE, PARTS. EVIDENCI ECTS TO NNECTOR NTACT RE ULATION DAMAGE, PARTS. NTACT RE ULATION AT HIGH ULATION AT DRY) DAMAGE, PARTS. APPROVI CHECKE	E OF OPE SIST RESI CRA ESIST HU RESI CRA ED	ANCE: 100 mΩ I CK AND LOOSEN  CORROSION WHE RATION OF  ANCE: 50 mΩ M STANCE: 50 MΩ I CK AND LOOSEN  ANCE: 50 mΩ M STANCE: 1 MΩ MIDITY) STANCE: 50 MΩ I CK AND LOOSEN  CHECKED  NM. NISHIMATSI HS. SAKAMOTO	MAX. NESS HICH  MAX. MIN. NESS  MIN. NESS	X X X X DA	1. 1 1. 1 1. 1
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA  COUNT  COUNT  REMARK  Unless of	ANGE OF FURE  TT STATE)  T, CYCLIC	(THICKN AT INITIA  AL CHARA  ST EXPOSE FOR 96  TEMPER TIME UNDER EXPOSE RELATIVE EXPOSE RELATIVE OF CYC.)  DESCRIPTION  Specified, re-	ESS OF FPC SHALL CONDITION.) ACTERISTIC D AT 35±2 °C , 6 h.  CATURE-55→+15 30→ 2 5 CYCLES. D AT 40±2 °C E HUMIDITY D AT -10 VE HUMIDITY SELES, TOTAL 2:	ALL BE t=0  CS  5 % SALT  5 % SALT  7 0 3 →  1 0 +6  90 TO 96  40 h.	0.30mm  WATER :  35→+15τc 30→ 2 τc  %, 96  55 °C, %,	o+35°C o 3min h.	(note	NTACT REDAMAGE, PARTS. EVIDENCE ECTS TO NNECTOR NTACT REULATION DAMAGE, PARTS. NTACT REULATION AT DRY) DAMAGE, PARTS. APPROVE CHECKE DESIGNE	E OF OPE SIST RESI CRA ESIST HU RESI CRA ED	ANCE: 100 mΩ I CK AND LOOSEN  CORROSION WH RATION OF  ANCE: 50 mΩ M STANCE: 50 mΩ M STANCE: 1 MΩ MIDITY) STANCE: 50 MΩ I ACK AND LOOSEN  CHECKED  NM. NISHIMATSI HS. SAKAMOTO YH. KOTANI	MAX. NESS HICH MAX. MIN. NESS MIN. NESS	X X X X X 11.1 11.1 11.1 11.1	1. 1 1. 1 1. 1
ENVIRO CORROSIO  RAPID CHA TEMPERAT  DAMP HEA  COUN  COUN  REMARK  Unless of	ANGE OF FURE  TATE  TATE	TEMPER TIME UNDER EXPOSE RELATIV 10 CYC  DESCRIPTIO  EST AT:Ass	ESS OF FPC SHALL CONDITION.) ACTERISTIC D AT 35±2 °C , S h.  CATURE-55→+15 30→ 2 5 CYCLES. D AT 40±2 °C E HUMIDITY D AT -10 VE HUMIDITY SELES, TOTAL 2:  ON OF REVISION  Defer to JIS C 5	ALL BE t=0  CS  5 % SALT  6 70 + 35 → + 8  TO 3 →  C, 90 TO 95  TO + 6 90 TO 96 40 h.  NS	0.30mm  WATER :  35→+15τc 30→ 2 τc  %, 96  55 °C, %,	o+35°C o 3min h.	(note	NTACT RE DAMAGE, PARTS. EVIDENCI ECTS TO NNECTOR NTACT RE ULATION DAMAGE, PARTS.  NTACT RE ULATION AT HIGH ULATION AT HIGH ULATION AT DAMAGE, PARTS.  APPROVI CHECKE DESIGNE DRAWN G NO.	E OFFOPE SIST CRA ESIST CRA ESIST CRA ESIST CRA ESIST CRA ESIST HU RESI	ANCE: 100 mΩ I CK AND LOOSEN  CORROSION WHE RATION OF  ANCE: 50 mΩ M STANCE: 50 MΩ I CK AND LOOSEN  ANCE: 50 mΩ M STANCE: 1 MΩ MIDITY) STANCE: 50 MΩ I CK AND LOOSEN  CHECKED  NM. NISHIMATSI HS. SAKAMOTO YH. KOTANI	MAX. NESS HICH MAX. MIN. NESS MIN. NESS	X X X X X 11.1 11.1 11.1 11.1 11.1 11.1	1. 1 1. 1 1. 1

SPECIFICATIONS							
ITEM	TEST METHOD		REQUIREMENTS	QT	АТ		
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.		① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.	×	_		
COLD	EXPOSED AT -55±3°C, 96 h.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	-		
SULPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2 °C , RELATIVE HUMIDITY ±5% 25±5 PPM FOR 96 h.		$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$	×	_		
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 10 TO 15 PPM FOR 96 h.		③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	_		
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 ±5°C FOR IMMERSION DURATION, 2±0.5 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	_		
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP. 250 °C MAX. REFLOW TMP. 230 °C MIN FOR 60 sec. 2) SOLDERING IRONS: TMP. 350 ± 10 °C FOR 5±1 sec.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_		

## (note1)

THIS PRODUCT HAS FLIP-LOCK CONSTRUCTION. FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED.

Note	Note QT:Qualification Test AT:Assurance Test X:Applicable Test			IG NO.	ELC4-323981-01		
н	HS SPECIFICATION SHEET		PART NO.	FH33J-12S-0. 5SH(10)			
# h.		HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	-1328-8-10	Δ	2/2