	Operating to		Safety standards UL/cUL, TU		Storage					
dompany representative for further information and the second of the sec	Operating temperature range		10 0 10 1 100 0	tote 1)	temperature			-40 °C to +105 °C (Note 2)		
e e e	Voltage		Power: 400 V AC		Operating h	umidity		e humidity of		
5			Signal: 100 V AC (Note 3)		range	ange		no dew condensation allowe		ed
2			Power: 3 A / pin (Receptacle AWG22 to AWG24)				La P. I	[Plug]	~	,
D Pating							Insulator outer dia. Ø 6.3 to Ø 7 Power: AWG18 to AWG2			
p Railiy >			(Receptacie AWG22 to A	(VV G24)			Signal, Brake: AWG22 to A			
<u> </u>	Current		Power: 9 A / pin		Applicable cable		[Receptacle]		U2	
ם מ					and wires		Power: AWG22 to AWG		_	4
d.			(,			Power: AWG18 to AWG2			
2			Signal: 1 A / pin (Note	e 3)			Sign	al: AWG28 to	AWG30	0
a S								Brake: AWG	24	
5	•		SPECII	FICAT	IONS		•			
<u> 7</u> I	TEM		TEST METHOD			REC	QUIREME	NTS	QT	Α
<u> </u>	RUCTION									_
eneral examination		Visually and by measuring instrument. Confirmed visually.			According t		ing.		X	2
Marking SIECTE	RICAL CHA								Х	Ż
			(DC or 1000 Hz) Max.		Power	contact:	5 mΩ Max			
ontact resistance Note 5)		130 1117	TOO THA (DC OF 1000 FIZ) Wax.				5 mΩ Max		Х	
ntact resistance		100 mA	100 mA (DC or 1000 Hz) Max.			contact: 2	0 mΩ Max.			
ote 6)							$0 \text{ m}\Omega \text{ Max}$		Х	
sulation resistance		500 V DC	<u>.</u>		PE, shi 5000 M		20 mΩ Max	۸.	X	
oltage pro			power supply terminal and sig	nal termina		hover or br	eakdown.		+^	
<u> </u>			oltage at 3000 V AC for 1 mir							
5000		Dotus :	nower augusts to make all and all all	iold						
			power supply terminal and sh oltage at 2640 V AC for 1 mir						Х	
reliability,			go at = 0.0 7 7 to 101 1 11111							
<u>n</u>			signal terminal and shield							
S ote		Apply \	voltage at 600 V AC for 1 minu	ite. (Note 3)						
_	operation temp	perature inc	ludes the temperature rise by	current car	rying.					
² 2 Stora			ws storage condition without p							
_ Stora	age condition v	vith packing	materials is -10 °C to 60 °C.							
			ne standards as those for signa							
	ve specification	n shows the	e values in assembled condition	on with 'MT	50WB' serie	S.				
<u> </u>										
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a l	11 D	LOURIN	ON OF REVISIONS		LOIGINED		CHE	.UNLD	DAI	ı C
<u>₹</u> 0					<u> </u>	A DDD OV (5	·D	T.111.011.011		
	ification aboa	st chows t	the performance with incorporated app			APPROVE		TANIGUCHI	20230	192
EMARK his spec	IIICAIION SNAL	41 211111111 ·	DE DEMOMBANCE WITH INCO					1/3 1// -		
his spec	tacts and con			rporated	аррисавіе	CHECKE	_	KZ. KAI	20230)92
his spec rimp cont	tacts and con	npatible co			аррпсавіе	DESIGNE	D KI	M JAEHYEON	20230)92!)92 <i>!</i>
his spec rimp cont	tacts and con	npatible co	onnector.		аррпсавіе		D KI)92)92
his spec rimp cont Inless oth	tacts and con nerwise speci	npatible co	onnector.)	DRAWIN	DESIGNE	D KII	M JAEHYEON	20230 20230)92)92)92

PART NO.

CODE NO.

MT50WBA-6D/2D4E-CVLD

CL0248-0056-0-00

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

HS

atio		SPECIFIC	ATIONS				
E IT	EM	TEST METHOD		REQUIREMEN	TS Q	Γ	
∯ECHAI	NICAL CHA	RACTERISTICS					
timechanical operation)		Repeat insertion/removal 50 times at the rat times per hour or less.	Po Si Pi 2) N	1) Contact resistance (Note 6) Power contact: 40 mΩ Max. Signal contact: 100 mΩ Max. (Note 3) PE, shield: 1000 mΩ Max. 2) No damage, crack or looseness of parts			
Fre 3 a a smooth resistance 500 bot wit Stimp terminal fixing force Pu		Frequency 10 to 60 Hz, single amplitude 0.3 Frequency 60 to 500 Hz, acceleration 5 G, 3 axial directions, 6 hours, 10 cycles each	fo 2) N	 No instantaneous electric interruption for 10 μs or longer No damage, crack or looseness of parts 			
		500 m/s ² , duration of pulse 11 ms, for 10 tim both axial directions (half-sine wave) in mate with applicable connector.	ed state	Power, Signal, Brake contact: 10 N Min.			
		Pull the crimped terminals of cables one by from the crimp terminal insertion side.	one Pow				
м		Apply an 80 N load to the cable for 1 minute		cable disconnection.	Х		
		Push the Power case and Signal case from side at Flange case.	mating 50 N	l Min.	×		
<u>§</u> NI\\ID∩	NMENITAL 4	CHARACTERISTICS	I		l .		
	ge of Temperatu	Ire Temperature $-40 \rightarrow 15$ to $35 \rightarrow 105$ Time $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow$ Under 5 cycles.					
s an		In mated state with applicable connector		Insulation resistance: 500 No damage, crack or loos			
oiiity, successive displaying and a single of the control of the c	nce	Exposed at -40 ±3 °C for 96 hours In mated state with applicable connector					
± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±		In mated state with applicable connector In an environment with a temperature of humidity of 90 to 95 %, leave the production		х	Ť		
		alt Exposed in 5 % salt water spray 35 ±2 °C In mated state with applicable connector	S No loss of function which could be caused by severe corrosion. (contact resistance, withstand voltage)				
		Apply air pressure 17.6 kPa for 0.5 minu connector	No air bubbles from connector interface.				
In cases where the application will demand a constant of the c		uctor resistance and ance is not considered.	(Note 6)	The wire conductor resistance	ce is not considered	.	
here the a		or resistance of plug wire		#1: Conductor resistance of	of plug wire		
In cases w	#3: Conduct #4: Contact terminal #5: Conduct	resistance of plug terminal for resistance of plug terminal resistance between plug and receptacle stor resistance of receptacle terminal g resistance of receptacle terminal		#2: Crimping resistance of plug terminal #3: Conductor resistance of plug terminal #4: Contact resistance between plug and recepterminal #5: Conductor resistance of receptacle terminal #6: Crimping resistance of receptacle terminal			
	#7: Conduc	tor resistance of receptacle wire		#7: Conductor resistance	of receptacle wire		
Note Q	Γ: Qualification T	est AT: Assurance Test X: Applicable Tes	t DRAV	VING NO. ELC	-404550-00-0)0	
			DADTNO	MTFOMPAGI	D/0D 4E 0\/		
HS		PECIFICATION SHEET DSE ELECTRIC CO., LTD.	CODE NO		D/2D4E-CVL -0-00 🔝	ں 2/	









