₽ PLICAB	LE STANDAI	RD	Safety standards UL/cUL, TUV (Plans	for app	olying)				
dompany representative for further informa Na ipp Gu	Operating temperature range		-40 °C to +105 °C (Note 1)		ige erature range	-40 °C to +105 °C (Note 2)			
ir ir	Voltage		Power: 400 V AC	Operating humidity		Relative humidity of 90 %			
the	voltage		Signal: 100 V AC (Note 3)	range	ge no dew condensa		allow	ed	
fur						[Plug]			
for			Power: 3 A / pin (Receptacle AWG22 to AWG24)			Insulator outer dia. Ø 6.3 to Ø 7.7 mr			
_Φ Rating						Power: AWG18 to AWG20			
ati				Appli	cable cable	Signal, Brake: AWG22 to AWG			
Current			Power: 9 A / pin		vires	[Receptacle]			
sə.			(Receptacle AWG18 to AWG20)	ana v		Power: AWG22 to AWG24			
epr			Signal: 1 A / pin (Note 3)			Power: AWG18 to AWG20			
Уr						Signal: AWG28 to AWG30			
ban						Brake: AWG24			
duo			SPECIFICAT	TIO1	NS				
TI a			TEST METHOD	REQUIREM		UIREMENTS	QT	AT	
© ONSTF	RUCTION								
general examination Visually			and by measuring instrument.	,	According to drawing.			Х	
)			d visually.				Х	Х	
(O	ICAL CHA								
		100 mA	(DC or 1000 Hz) Max.		Power contact: $5 \text{ m}\Omega \text{ Max.}$		Х	_	
(Note 5)		100 mA	(DC or 1000 Hz) Max.		Signal contact: 5 mΩ Max. (Note 3) Power contact: 20 mΩ Max.				
©ntact resistance 100 mA (Note 6)		100 IIIA	(DC of 1000 Hz) Max.		Signal contact: 30 mΩ Max. (Note 3)			_	
E C				PE, shield: $20 \text{ m}\Omega$ Max.			Х		
ltsulation resistance 500 V Do					5000 MΩ Min.		Х	-	
· · · · · · · · · · · · · · · · · · ·			power supply terminal and signal terminal		No flashover or br	eakdown.			
ης		Apply \	voltage at 3000 V AC for 1 minute. (Note	3)					
ລັ ອ			power supply terminal and shield						
Apply v			voltage at 2640 V AC for 1 minute.				Х	-	
iliq			_						
4			signal terminal and shield						
Note Apply \			voltage at 600 V AC for 1 minute. (Note 3	(Note 3)				<u> </u>	
	neration temp	aratura inc	ludes the temperature rise by current ca	arryina					
			ws storage condition without packing m						

- where the application will demand a high Storage condition with packing materials is -10 $\,^\circ\text{C}\,$ to 60 $\,^\circ\text{C}\,.$
 - To the brake terminal, the same standards as those for signal terminal are applied.
 - Above specification shows the values in assembled condition with 'MT50WB' series.

ب_	^								
200	COUN	DESCRIPTION OF REVISIONS DESIGNED					CHECKED	DATE	
4	0								
REMARK						PPROVED TU. TANIGUCHI		20230925	
This specification sheet shows the performance with incorporated applicable					CHECKED		KZ. KAI	20230925	
crimp contacts and compatible connector. Unless otherwise specified, refer to JIS C 5402(IEC-60512.)				DESIGNED		KIM JAEHYEON	20230922		
ľ	711000 0111	orwide appearing , refer to the 0 to 102(120 000 12.	.,		DRA	WN	HK. SAITO	20230922	
Ν	Note QT: Qualification Test AT: Assurance Test X: Applicable T			DRAWIN	G NO.	ELC-404551-00-			
	HS.	SPECIFICATION SHEET		PART NO.	M	T50WBA-6D/2D4E-CVLDR			
	1.0	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0248-0057-0-00			<u></u> 1/2	

<u> </u>	SPECIFIC <i>A</i>	ATIONS				
E ITEM	TEST METHOD		REQUIREMENTS	QT	Α	
∰ECHANICAL CHAI	RACTERISTICS					
urability	Repeat insertion/removal 50 times at the rate of 600 times per hour or less.		Power contact: 40 mΩ Max. Signal contact: 100 mΩ Max. (Note 3) PE, shield: 1000 mΩ Max. No damage, crack or looseness of parts		-	
l tat	Frequency 10 to 60 Hz, single amplitude 0.35 Frequency 60 to 500 Hz, acceleration 5 G, 3 axial directions, 6 hours, 10 cycles each	o instantaneous electric interruption r 10 μs or longer o damage, crack or looseness of parts	х			
book resistance 500 m/s², duration of pulse 11 ms, for 10 times in 3 both axial directions (half-sine wave) in mated state with applicable connector.			х			
Fimp terminal fixing force	Pull the crimped terminals of cables one by or from the crimp terminal insertion side.	ne Pow	er, Signal, Brake contact: 10 N Min.	х		
able clamping force	Apply an 80 N load to the cable for 1 minute.	No c	o cable disconnection.			
	Push the Power case and Signal case from m side at Flange case.	Min.				
NVIRONMENTAL (CHARACTERISTICS					
apid Change of Temperatu ≥ 5 6 5 E Eat resistance	Temperature $-40 \rightarrow 15$ to $35 \rightarrow 105$ — Time $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow 2$ Under 5 cycles. Exposed at 105 ± 2 °C for 96 hours	to 3 minutes	1) Contact resistance (Note 6) Power contact: 40 mΩ Max. Signal contact: 100 mΩ Max. (Note 3) PE, shield: 1000 mΩ Max. 2) Insulation resistance: 5000 MΩ Min.	X		
s an	In mated state with applicable connector. Exposed at -40 ±3 °C for 96 hours		2) Insulation resistance: 5000 MΩ Min.3) No damage, crack or looseness of part			
Sold resistance	In mated state with applicable connector.			х		
imidity resistance	In mated state with applicable connector. In an environment with a temperature of 40 humidity of 90 to 95 %, leave the product f		х			
orrosion resistance test, sa ≜st	late Exposed in 5 % salt water spray 35 ±2 °C In mated state with applicable connector.					
କ୍ରି Artightness ଓ ଓ ପ୍ରଧିକ୍ର	Apply air pressure 17.6 kPa for 0.5 minute connector	No air bubbles from connector interface.	х			
(Note 5) The wire conductor resistance and crimping resistance is not considered.						
	or resistance of plug wire resistance of plug terminal		#1: Conductor resistance of plug wire #2: Crimping resistance of plug terminal		`	
#0. Conduc	resistance of plug terminal resistance between plug and receptacle ctor resistance of receptacle terminal g resistance of receptacle terminal	#3: Conductor resistance of plug terminal #4: Contact resistance between plug and r terminal #5: Conductor resistance of receptacle termin #6: Crimping resistance of receptacle termin				
	tor resistance of receptacle wire		#7: Conductor resistance of receptacle wire			
Note QT: Qualification T	est AT: Assurance Test X: Applicable Test	DRAW	/ING NO. ELC-404551-(0-0	0	

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CL0248-0057-0-00

CODE NO









