### Micro-Coaxial Connector

## CABLINE®-CAP

고속전송대응 (64Gbps/lane PAM4)、

0.4mm Pitch、수평결합 타입 세선동축 Cable Assembly

#### Product Specifications:

Floudet Speci	iications.				
Mating type		Horizontal			
Board Pitch (mm)		0.4			
Wiping Length (mm)		0.54			
Mated size (mm)	Height	1.15 ± 0.2			
	Width	Formula: 5.75mm + (0.4mm* # of pins)			
	Depth	6.86			
Pin Counts	Range	Up to 60			
	Available	50 (16 differential pair Max)			

### **Applicable Cable Size:**

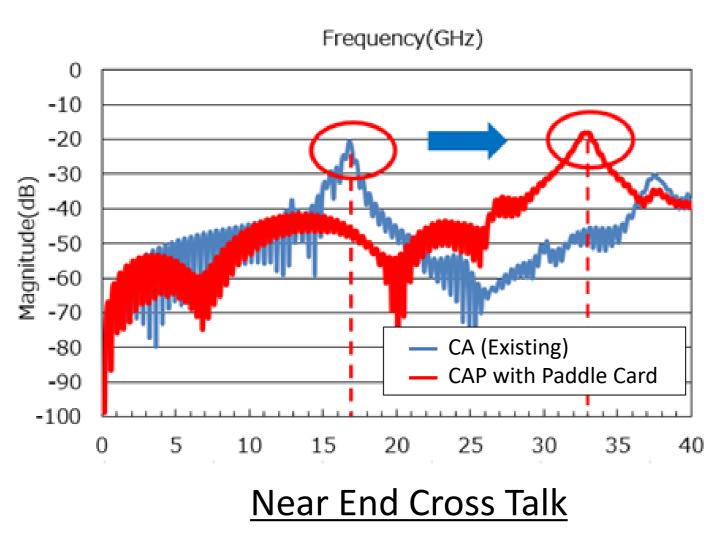
Maximum O.D. (mm)	0.47
Micro-Coaxial For Signal (AWG)	Diff 90 ohm: #38

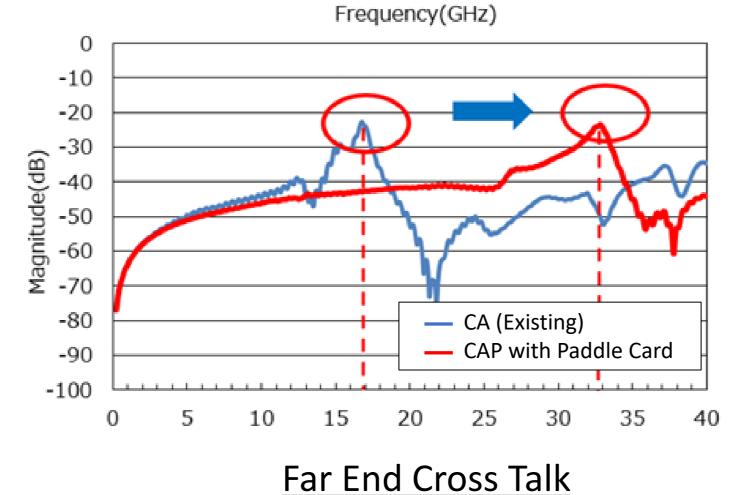


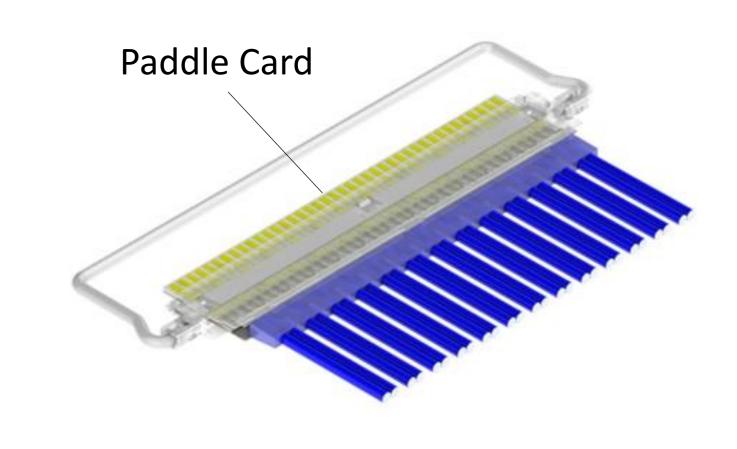
\*제품명 CABLINE®-CAP는, 하네스 제품 명칭입니다. Receptacle은 CABLINE®-CA Receptacle (20525-#50E-02)입니다. \* Plug는 하네스 제품으로 제공됩니다.케이블 길이는 원하시는 길이대로 커스터마이징이 가능합니다. \*기재가 없는 PIN수 대응에 대해서는 문의해 주십시오.

## 패들카드 기술을 구사하는 고속전송 64Gbps/lane PAM4

케이블 플러그 부에 패들카드를 채용하는 것으로, 신호품질을 향상시켜 기존 CABLINE 시리즈에서 한층 더 고속전송을 실현



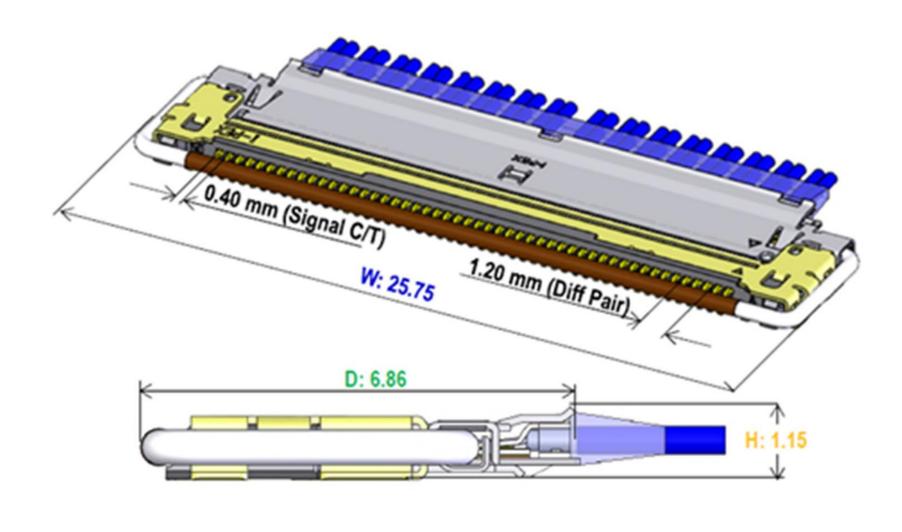


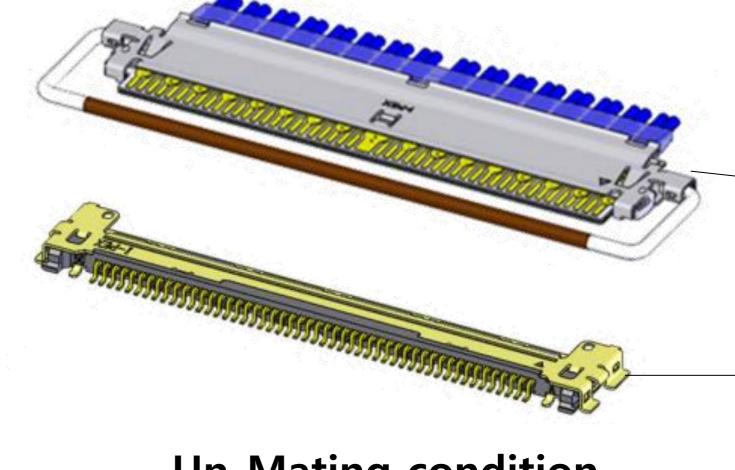


패들 카드 기술 홈페이지

https://www.i-pex.com/library/white-papers/paddle-card-technology

## > 낮은 높이에서 공간 제약이 있는 Application에 최적인 높이 H=1.15mm





Plug: CABLINE®-CAP harness

**Mating condition** 

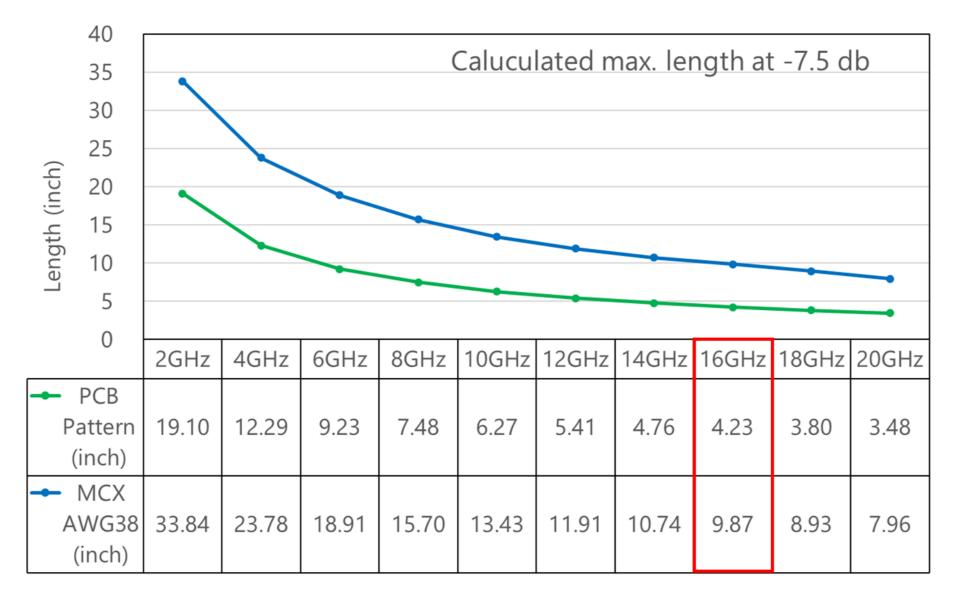
**Un-Mating condition** 

CABLINE®-CA @ Receptacle 20525-#50E-02 ) 에 결합

Receptacle:

# 세선 동축케이블을 사용한 LEAPWIRE Jumper solution

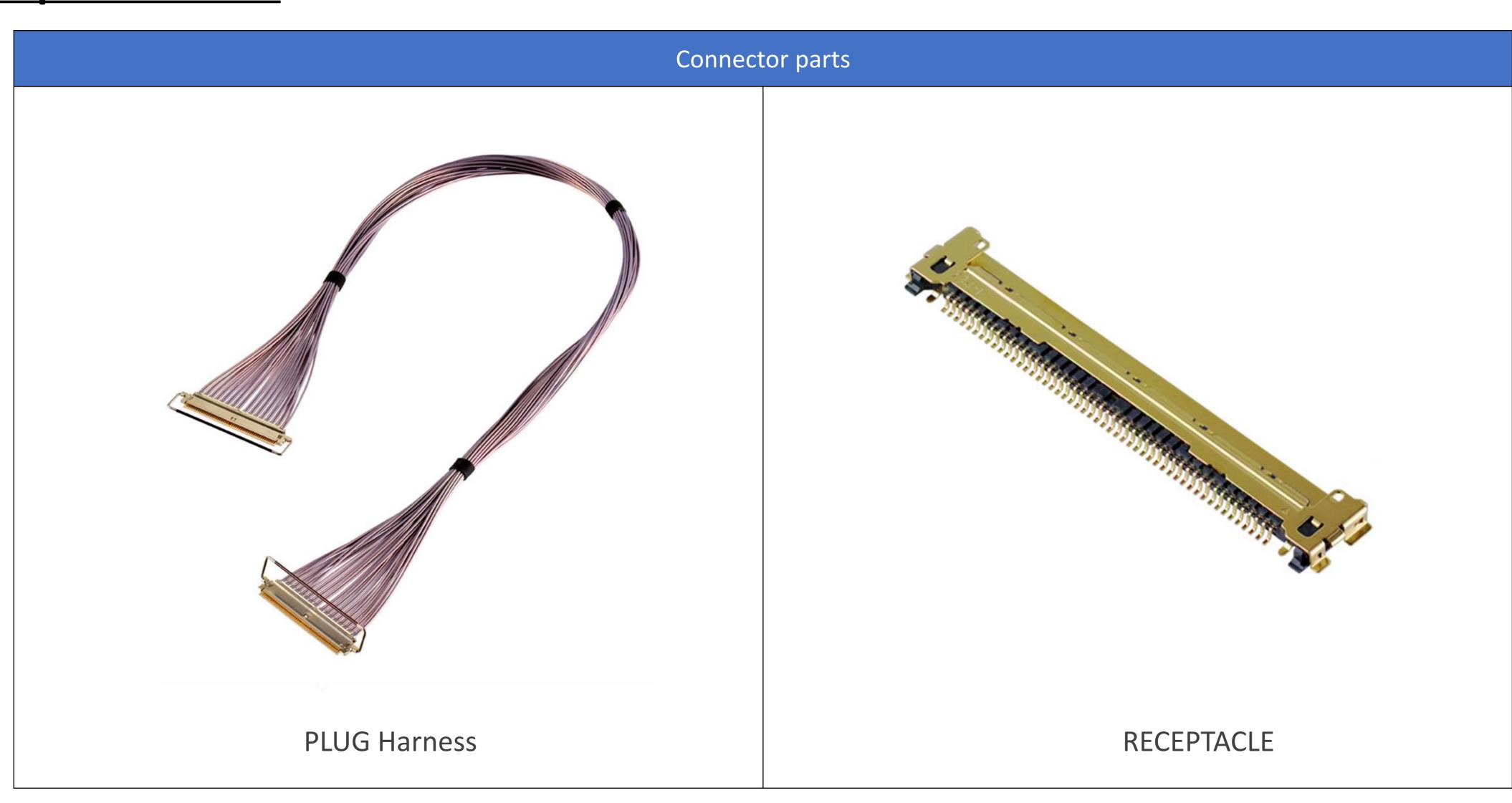
케이블 점퍼 하네스는 기판전송보다 유리합니다. 낮은 손실의PCB (Dk3.7) 와 CABLINE-CAP®하네스의 전송 거리 비교입니다. 세선 동축 케이블은 낮은 손실의 PCB(Dk3.7)와 비교하여 16GHz 대에서 약2.3배 전송이 가능합니다.





# Component Parts Details

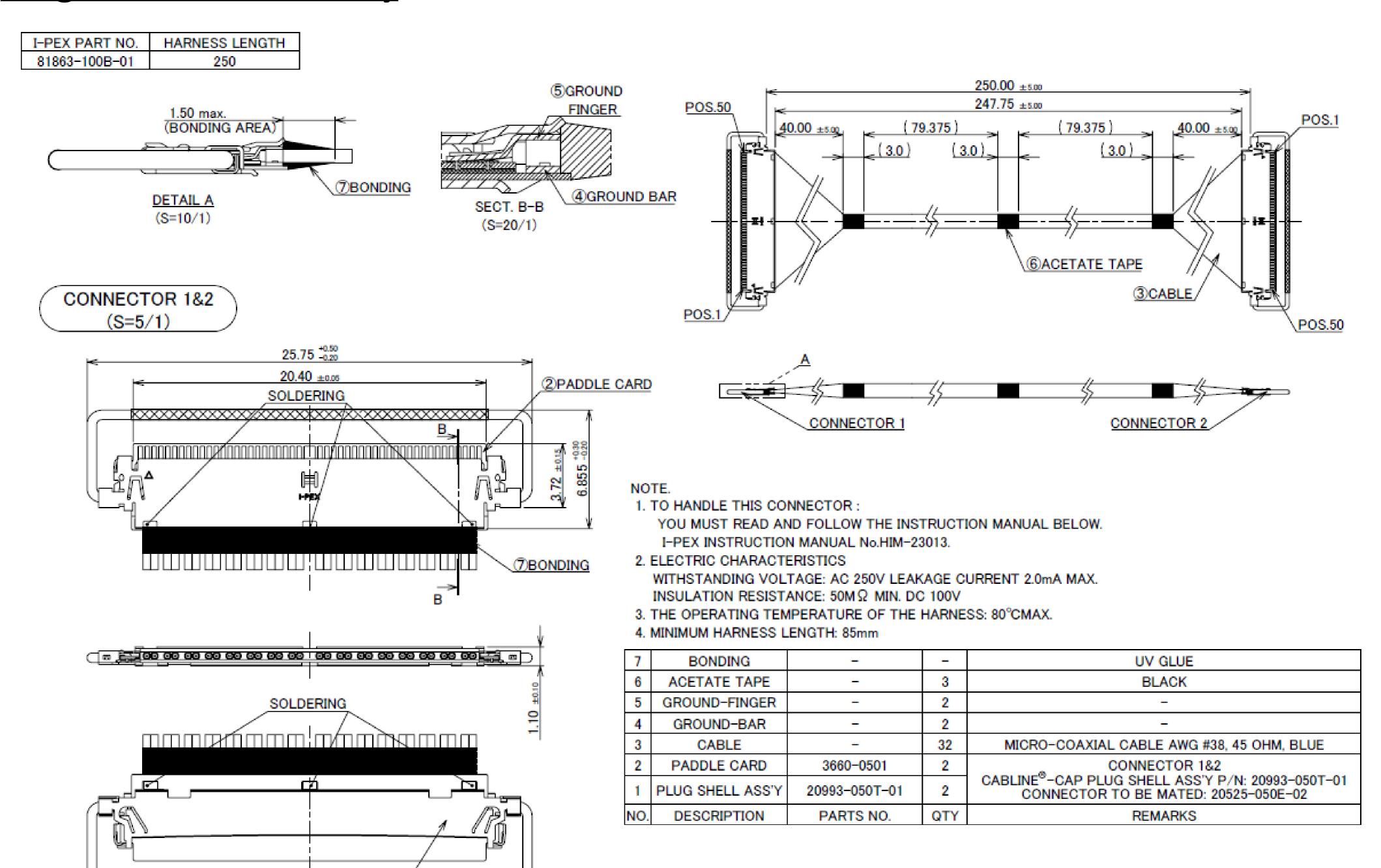
## **Component Parts**



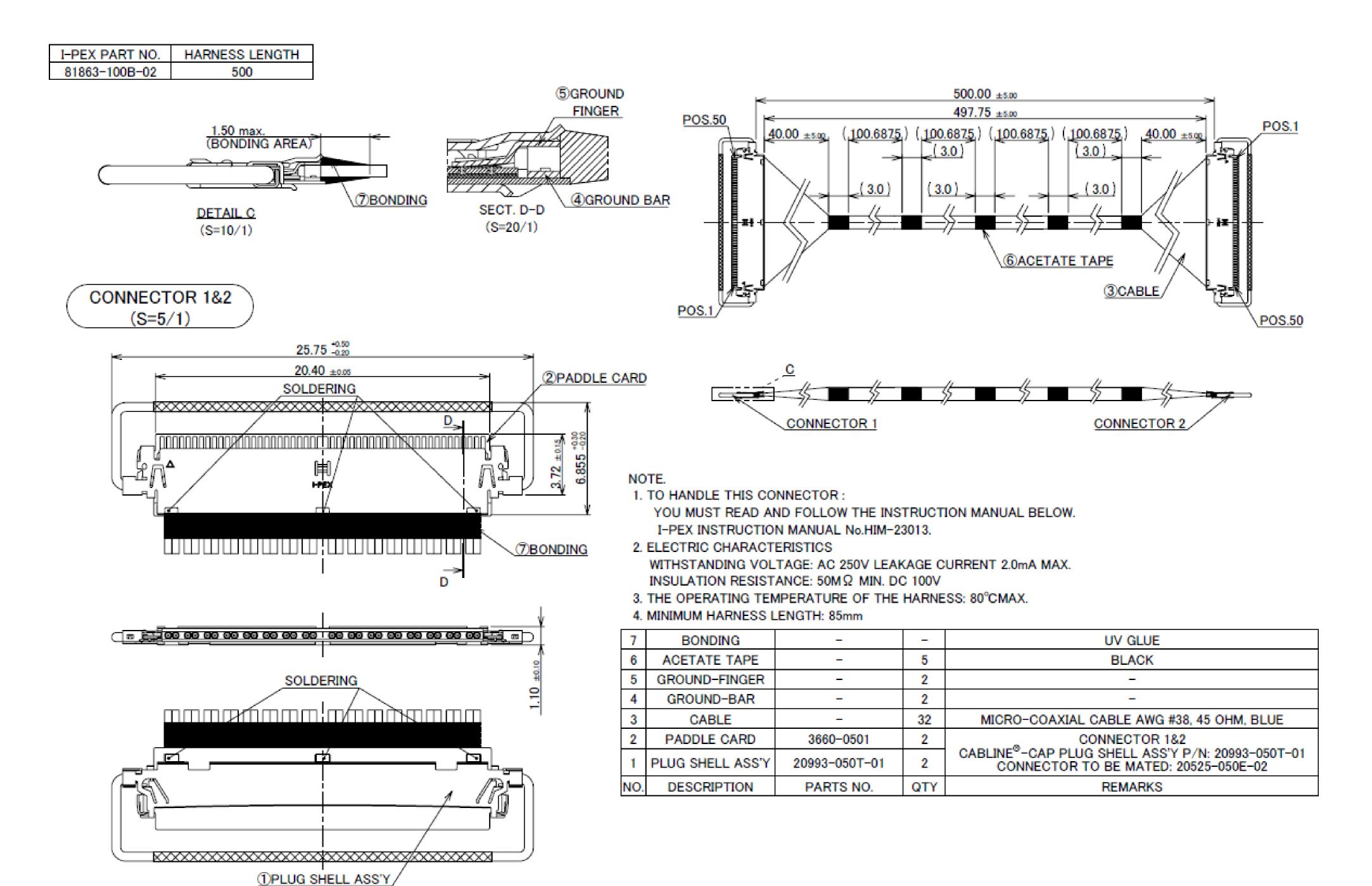


### **Plug Harness Assembly**

①PLUG SHELL ASS'Y



Rev.1

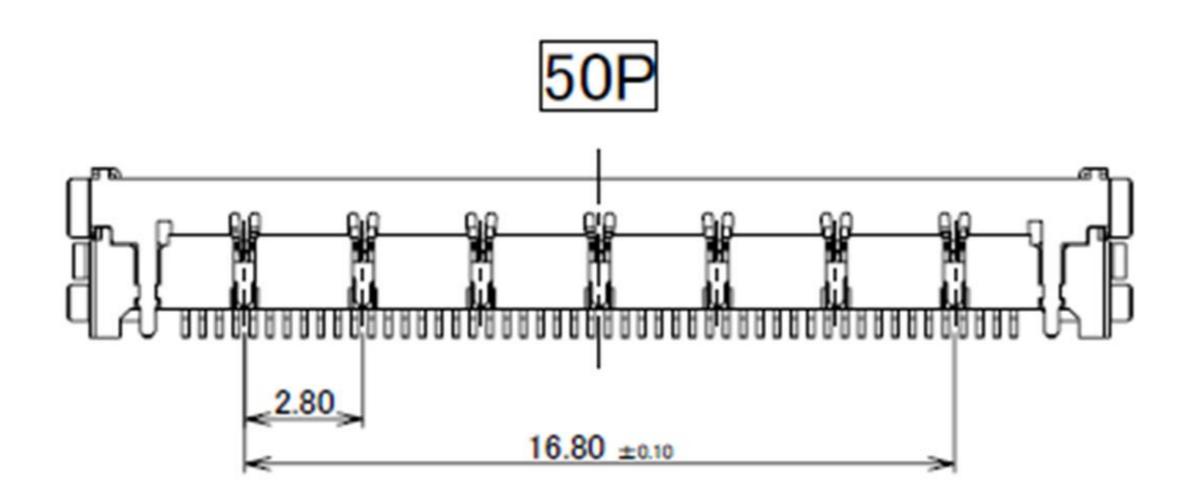




## **Receptacle Assembly**

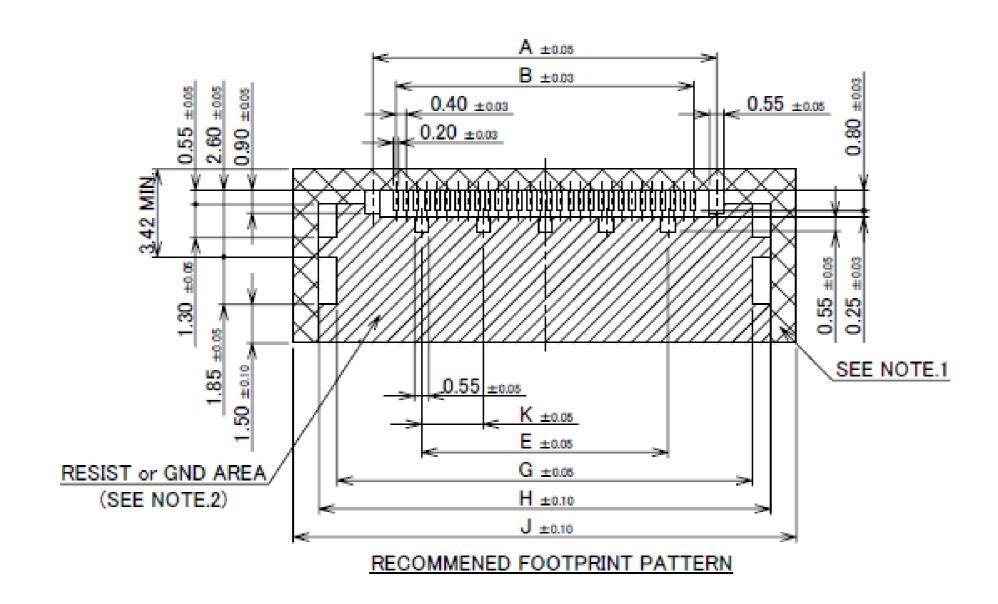
PART NO. 20525-050E-02

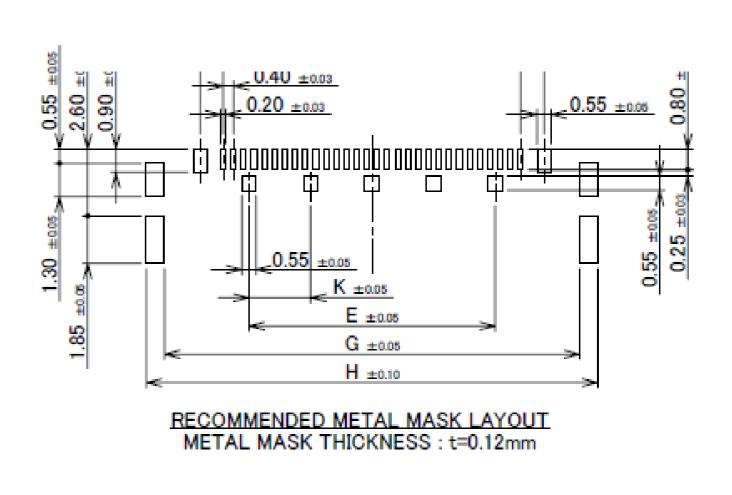
### BOTTOM VIEW



Rev.27

PART NO.	POS.	Α	В	E	G	Н	J	K
20525-050E-02	50	21.40	19.60	16.80	24.18	25.60	27.60	2.80





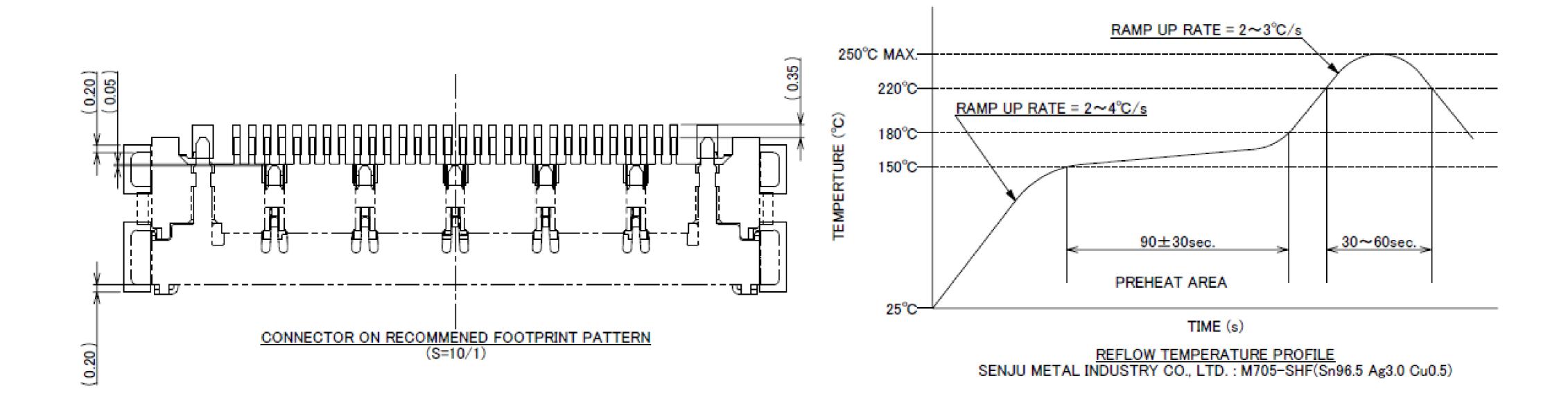
NOTES.

1. IN CASE OF PLUG WITH PULL BAR(20633-#\*\*T-01S), THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

2. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.

I-PEX

## **Receptacle Assembly**



Rev.27

ITEMS	SPECIFICATION				
APPLICABLE CABLE	Micro Coaxial: AWG#38 Diff 90ohm				
RATING AMPERAGE (FOR CONTACT)	0.4A AC/DC (AWG#38)				
RATING VOLTAGE	100V AC (PER CONTACT PIN)				
OPERATING TEMPERATURE	233~358K (-40°C~85°C)				
OPERATING HUMIDITY	85°C MAX. (NON-CONDENDING)				
CONTACT RESISTANCE	INITIAL: 270mohm MAX.(AWG#38) / AFTER TEST: Δ40mohm MAX.				
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : Δ40mohm MAX.				
INSULATION RESISTANCE	INITIAL: 1000Mohm MIN. / AFTER TEST: 500Mohm MIN.				
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min				
DURABILITY	30CYCLES				
MATING FORCE (INITIAL / AFTER 30 CYCLES)	50P: 18.9N MAX.				
UNMATING FORCE (INITIAL / AFTER 30 CYCLES)	50P: 2.5N MIN.				
CABLE RETENTION FORCE	50P: 24.5N MIN.				
PRODUCT SPECIFICATION	PRS-2832				
TEST REPORT	TR-23020				
INSTRUCTION MANUAL	HIM-23013				





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