Micro-Coaxial Connector

CABLINE®-CAP

고속전송대응 (64Gbps/lane PAM4)、

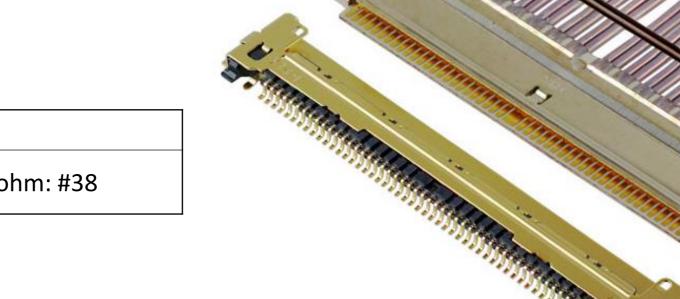
0.4mm Pitch、수평결합 타입 세선동축 Cable Assembly

Product Specifications:

Product Specifications.						
Matir	ng type	Horizontal				
Board Pi	itch (mm)	0.4				
Wiping Le	ength (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:

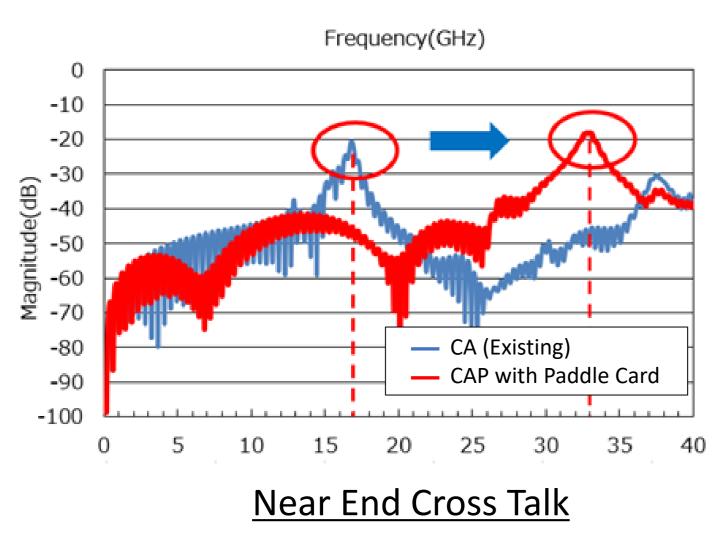
Maximum O.D. (mm)	0.47
Micro-Coaxial For Signal (AWG)	Diff 90 ohm: #38

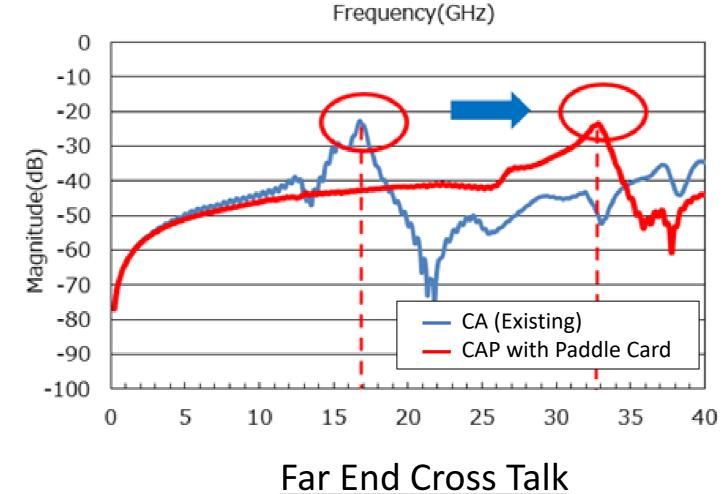


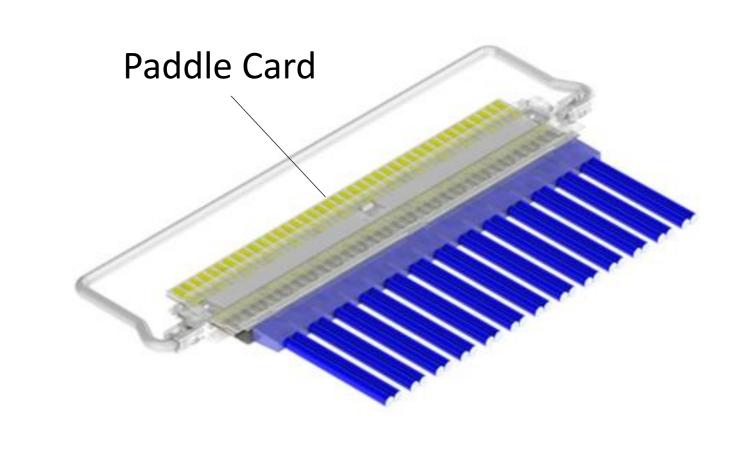
*제품명 CABLINE®-CAP는, 하네스 제품 명칭입니다. Receptacle은 CABLINE®-CA Receptacle (20525-#50E-02)입니다. * Plug는 하네스 제품으로 제공됩니다.케이블 길이는 원하시는 길이대로 커스터마이징이 가능합니다. *기재가 없는 PIN수 대응에 대해서는 문의해 주십시오.

패들카드 기술을 구사하는 고속전송 64Gbps/lane PAM4

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



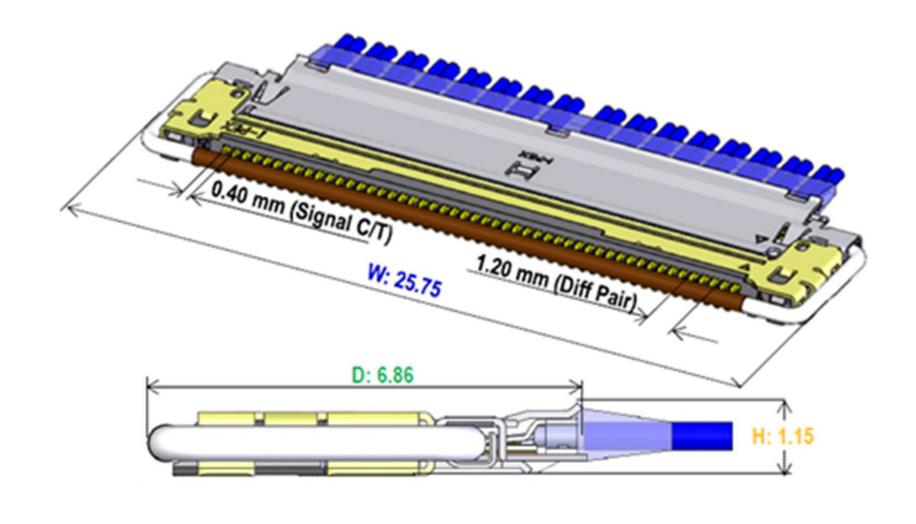


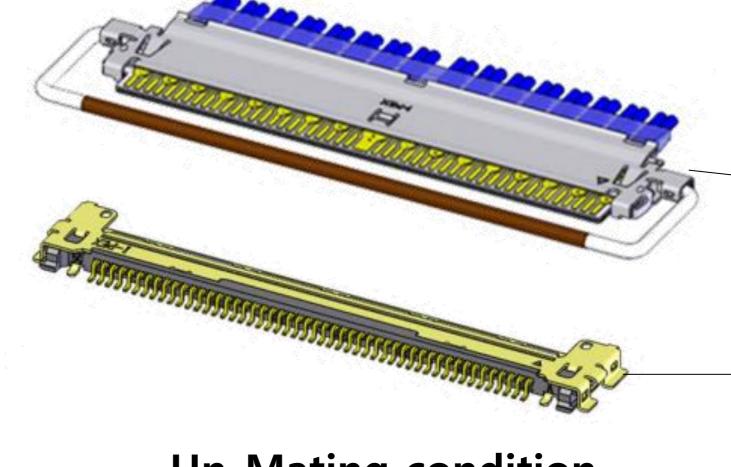


패들 카드 기술 홈페이지

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

Receptacle:

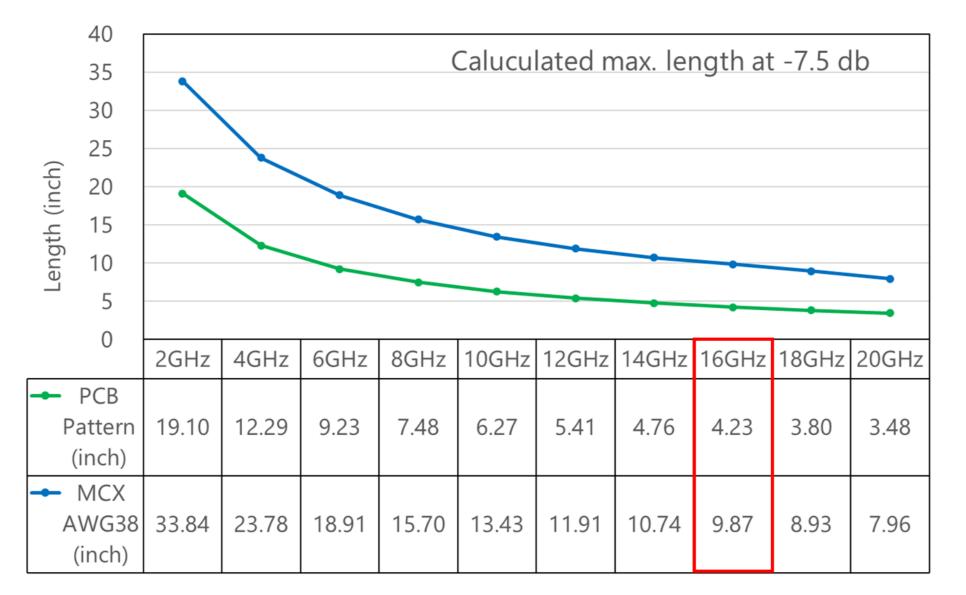
Mating condition

Un-Mating condition

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

세선 동축케이블을 사용한 LEAPWIRE Jumper solution

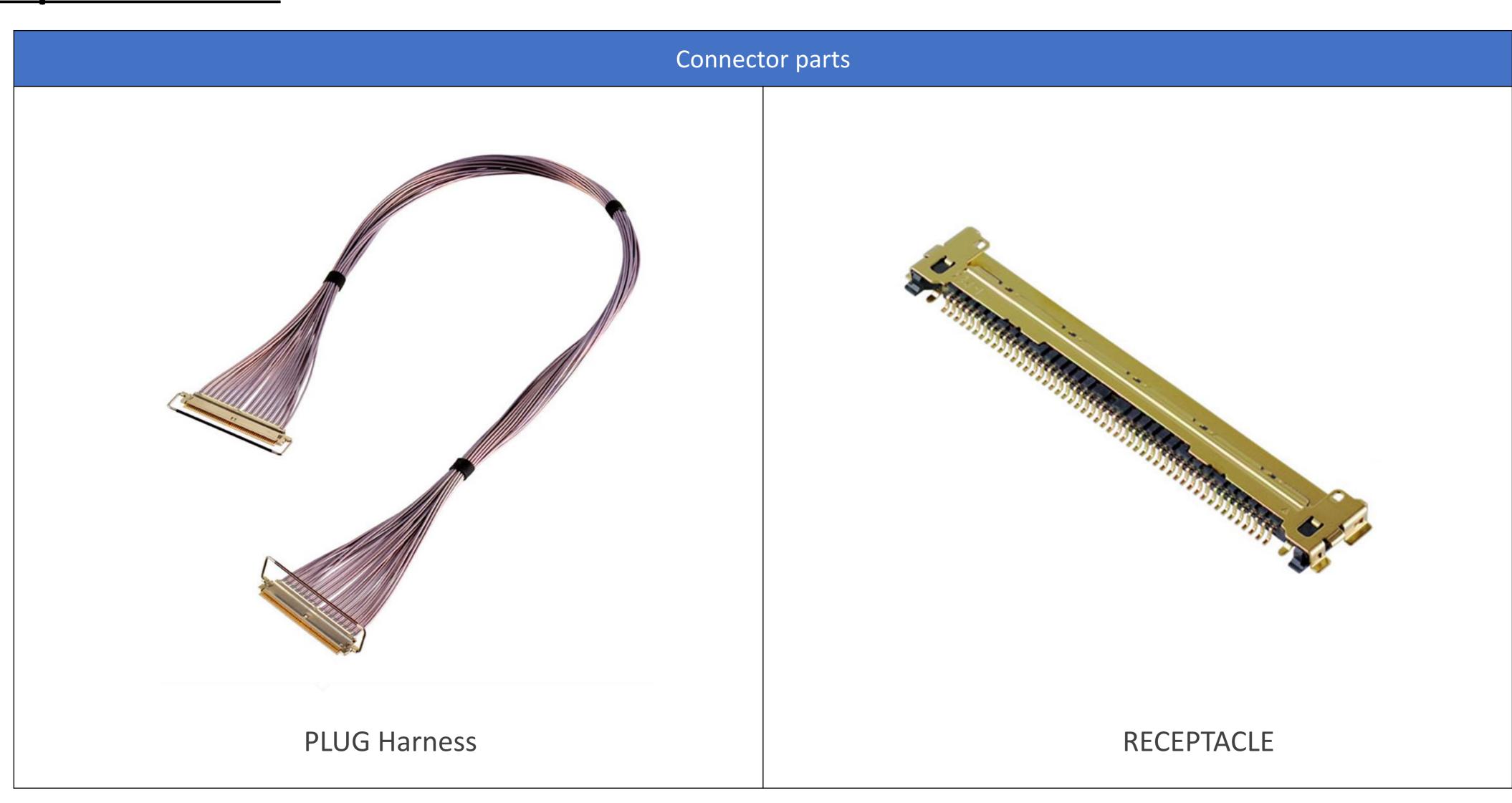
케이블 점퍼 하네스는 기판전송보다 유리합니다. 낮은 손실의PCB (Dk3.7) 와 CABLINE-CAP®하네스의 전송 거리 비교입니다. 세선 동축 케이블은 낮은 손실의 PCB(Dk3.7)와 비교하여 16GHz 대에서 약2.3배 전송이 가능합니다.





Component Parts Details

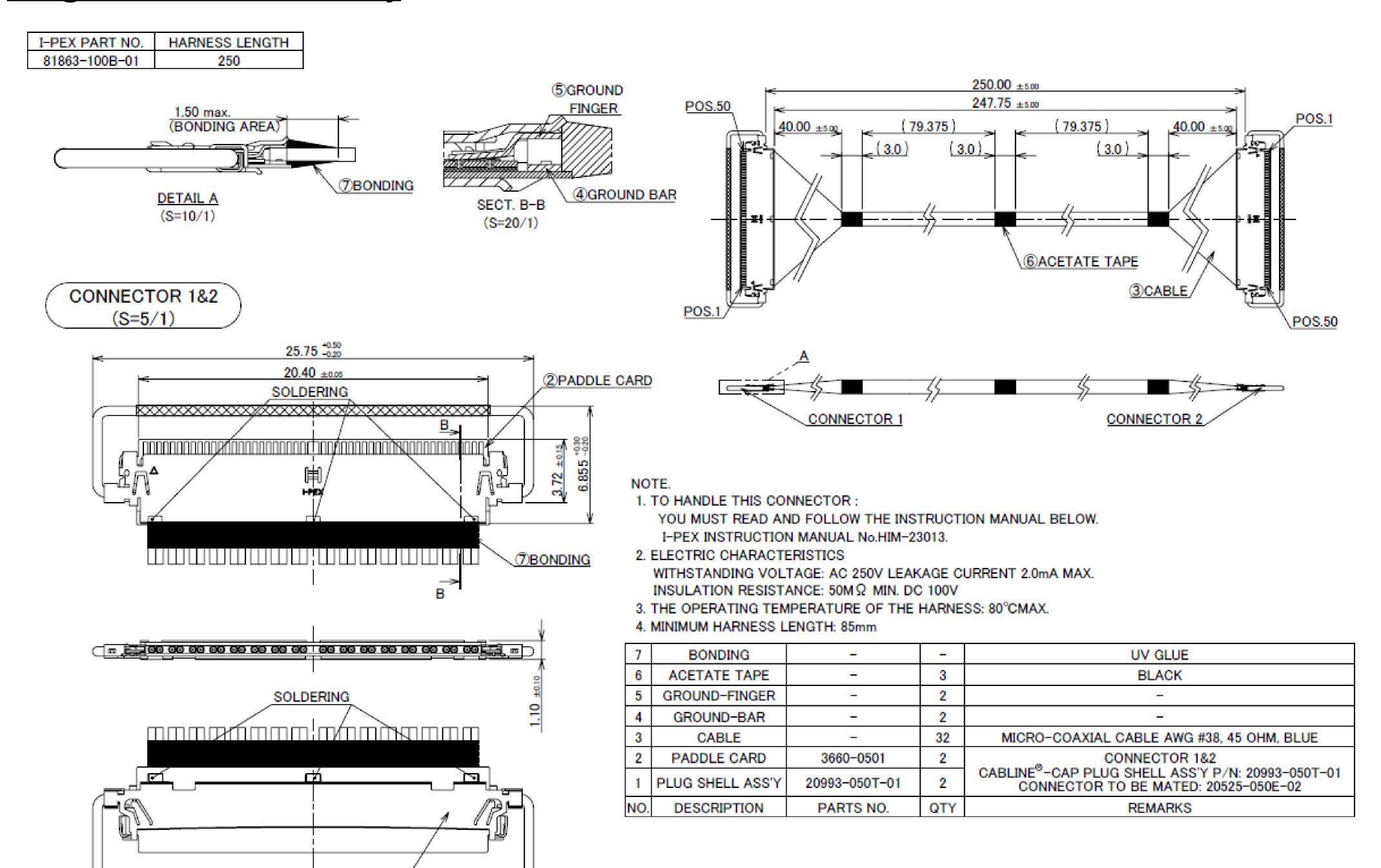
Component Parts



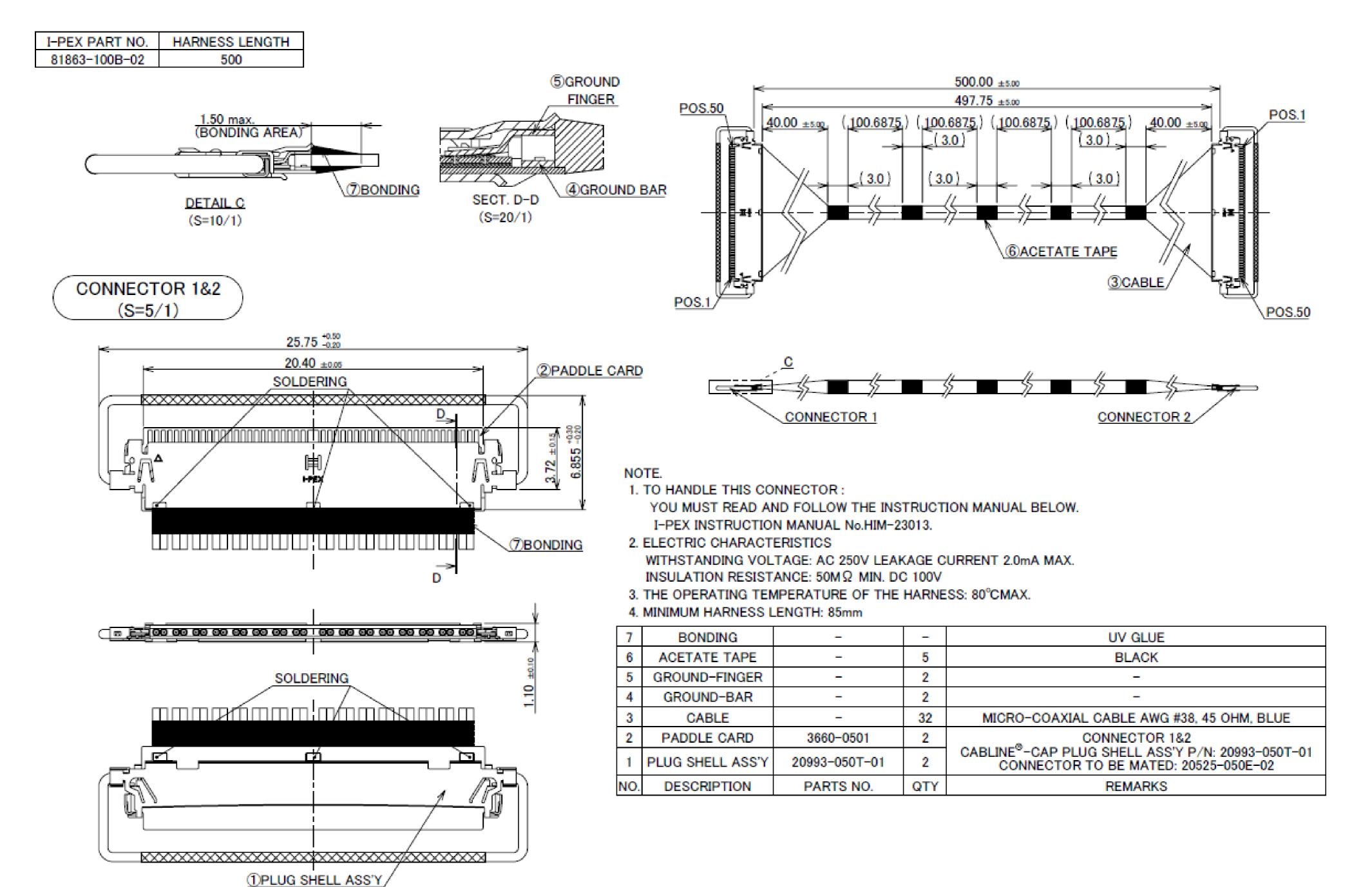


Plug Harness Assembly

①PLUG SHELL ASS'Y



Rev.1

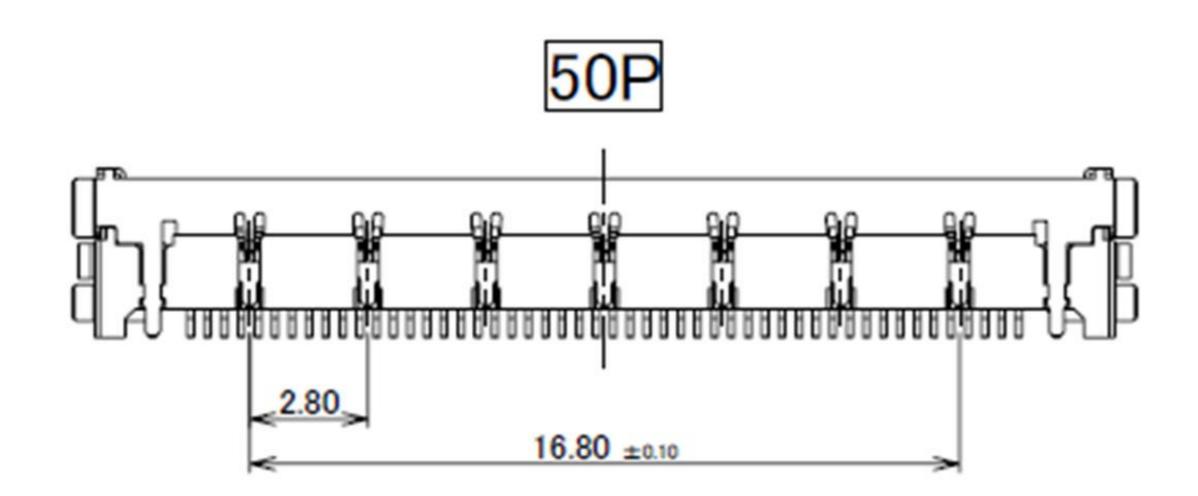




Receptacle Assembly

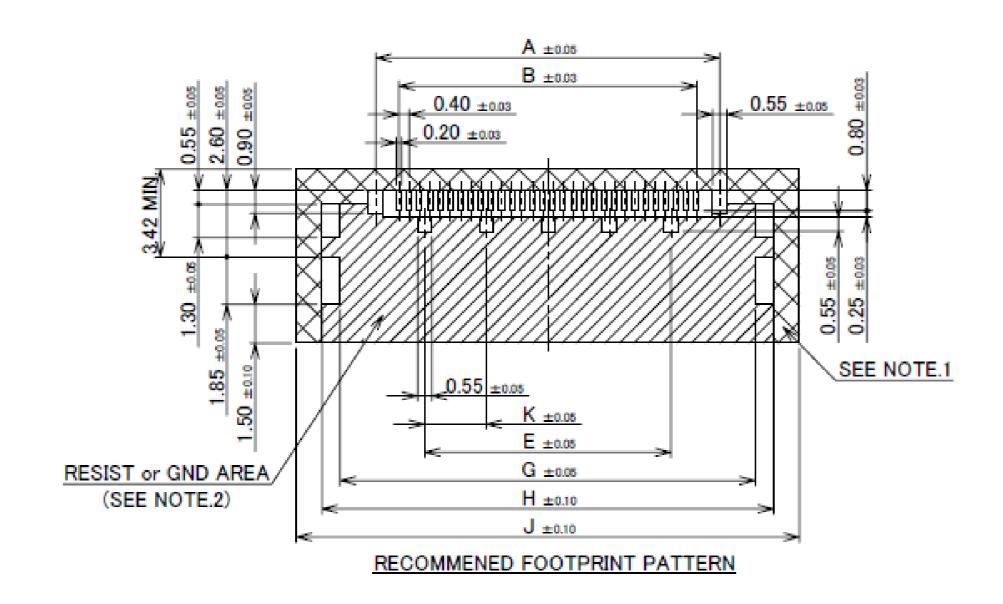
PART NO. 20525-050E-02

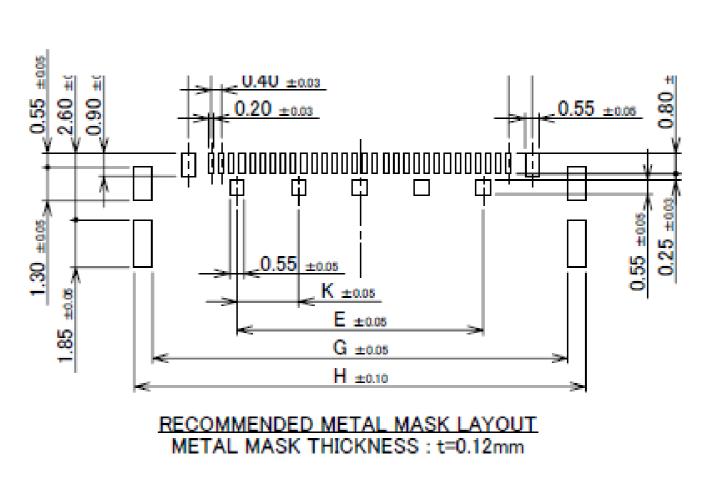
BOTTOM VIEW



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





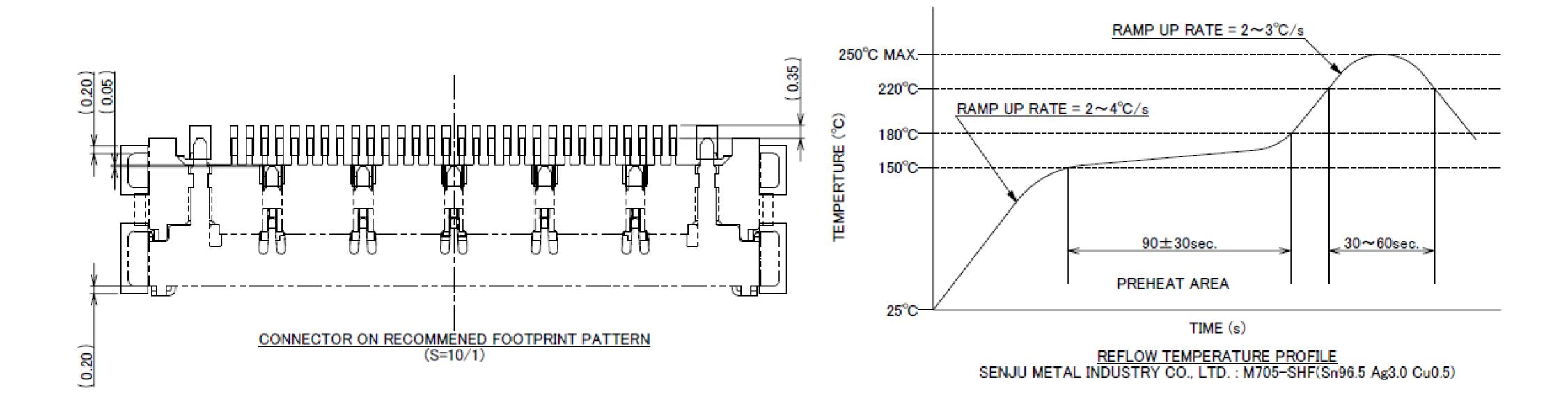
I-PEX

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.

Receptacle Assembly

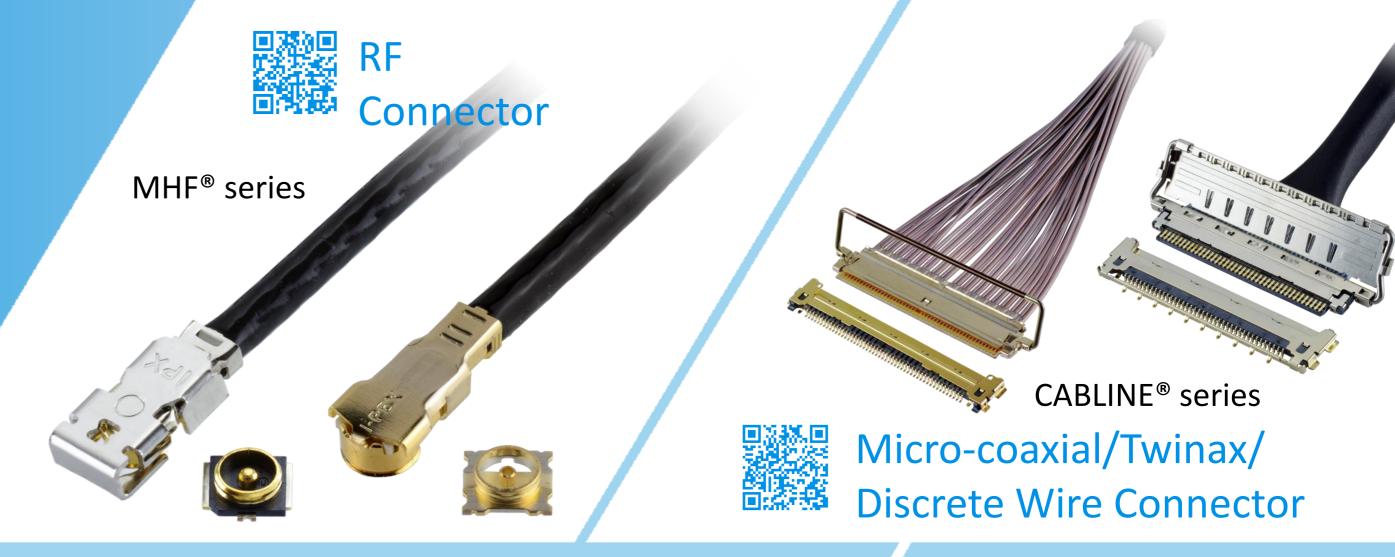


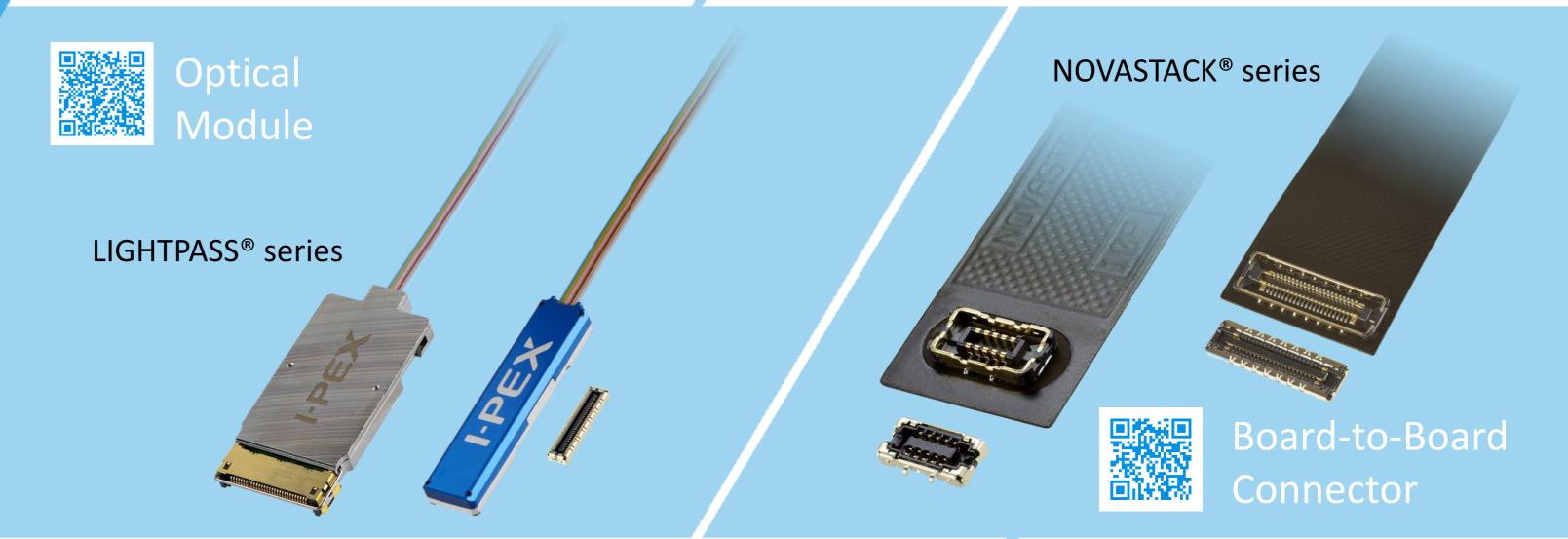
Rev.27

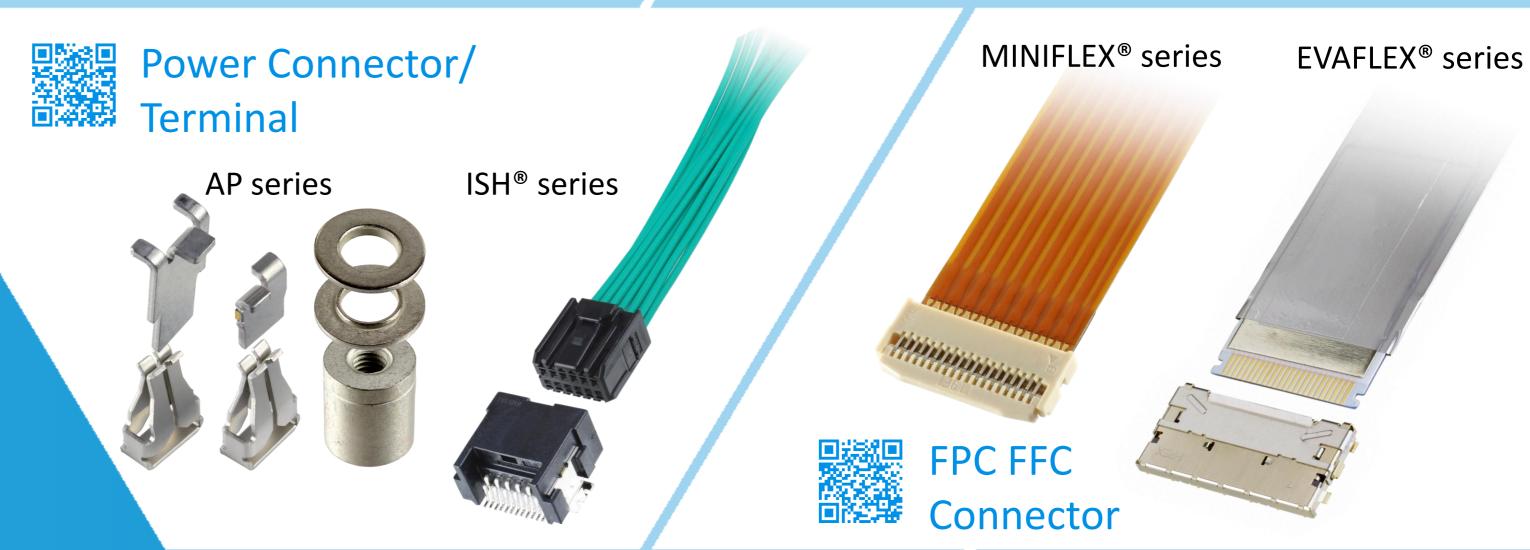
ITEMS	SPECIFICATION
APPLICABLE CABLE	Micro Coaxial: AWG#38 Diff 90ohm
RATING AMPERAGE (FOR CONTACT)	0.4A AC/DC (AWG#38)
RATING VOLTAGE	100V AC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K (-40°C~85°C)
OPERATING HUMIDITY	85°C MAX. (NON-CONDENDING)
CONTACT RESISTANCE	INITIAL: 270mohm MAX.(AWG#38) / 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

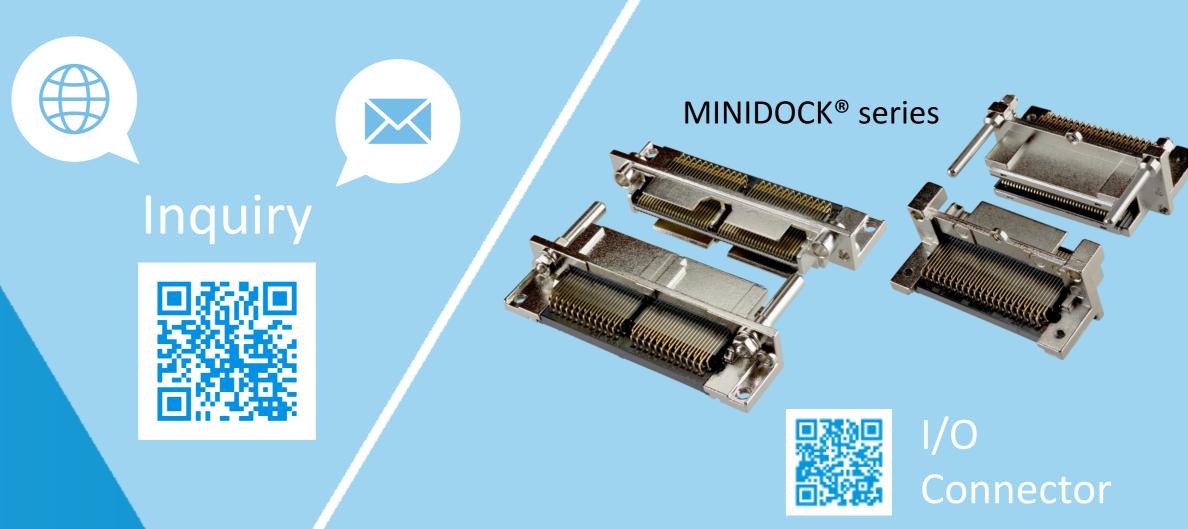


Custom Connectors Available









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