

# CABLIN<sup>®</sup>-UA II

작은 직경의 공간을 통과시키기에 최적인 슬림 디자인, 실드&멀티 그라운드 접점, 0.3 mm Pitch, Right Angle형 Vertical 방향 결합 타입 세션 동축 커넥터



**Product Specifications:**

Mating type	Right angle vertical	
Board Pitch (mm)	0.6	
Wiping Length (mm)	0.3	
Mated size (mm)	Height	1.27 +/- 0.1
	Width	5.0 + (0.3*?p)
	Depth	2.9
Pin Counts	Range	Up to 50
	Available	26, 32, 40, 50

**Applicable Cable Size:**

Maximum O.D. (mm)	0.3
Micro-Coaxial for Signal (AWG)	45ohm : #42 or smaller
Twin Coaxial (AWG)	50ohm : #44 or smaller
Discrete (AWG)	#39 or smaller

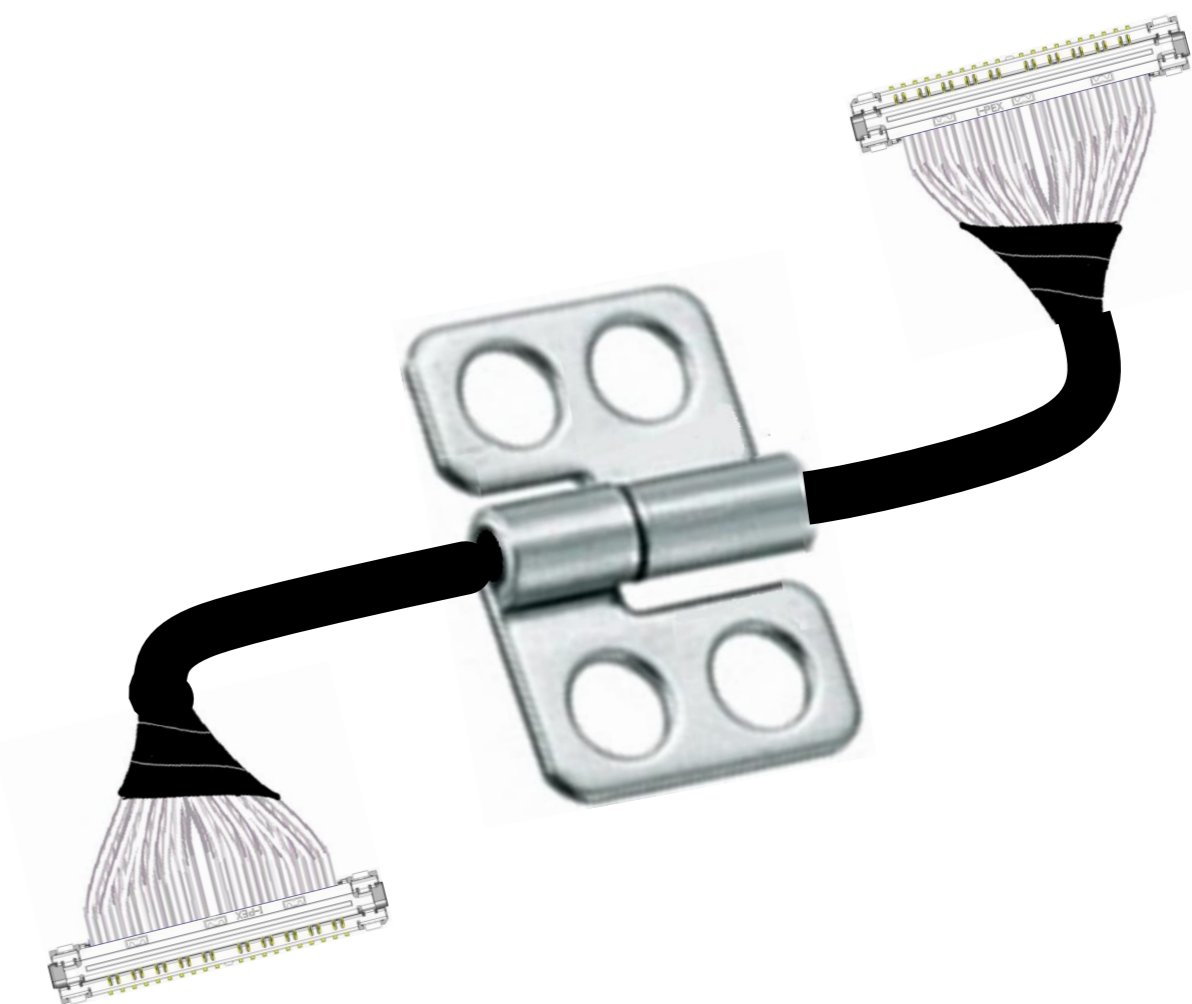
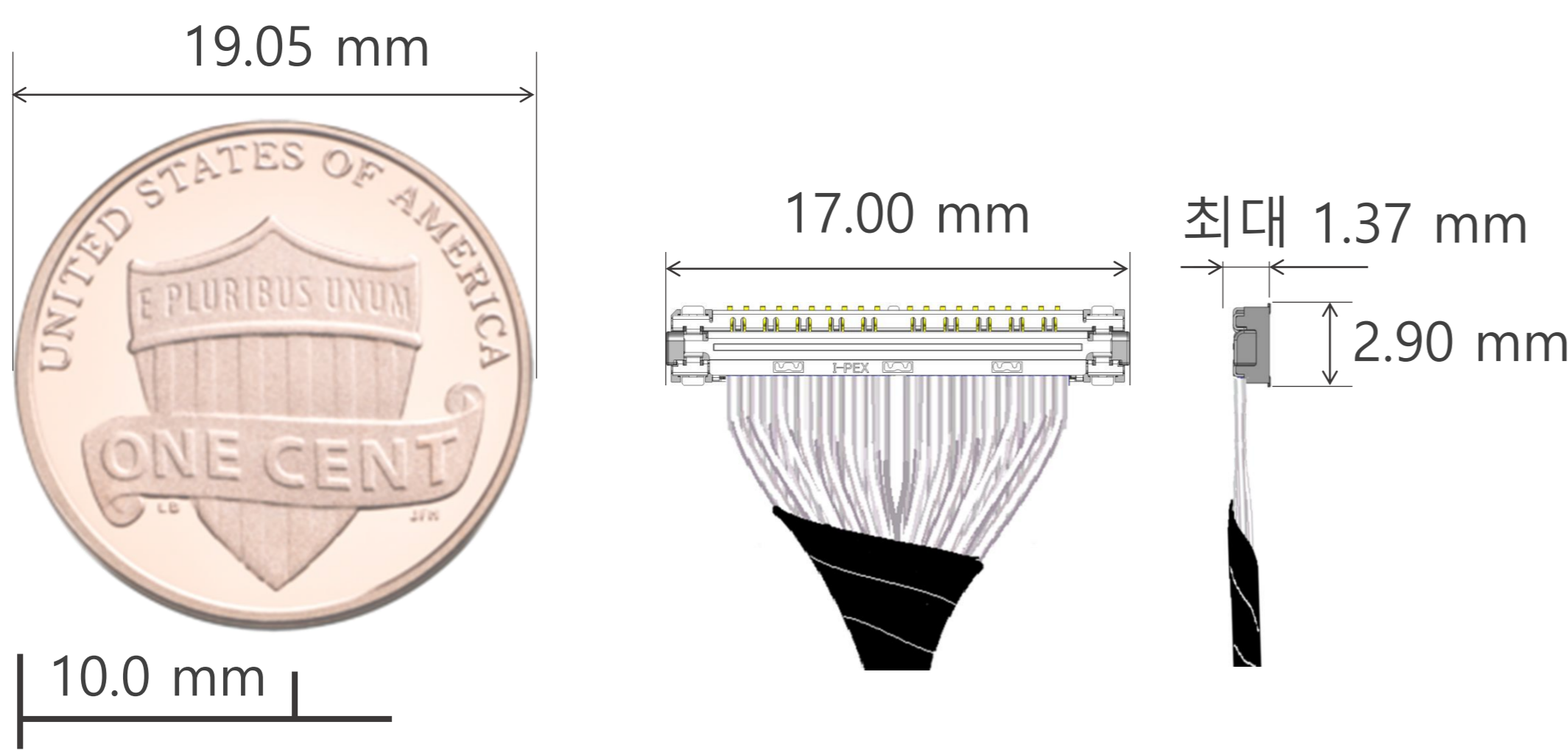
**Applicable Standards (Reference Only):**

USB 3.1 Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps)
HDMI 1.3 (3.4 Gbps)

\*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁드립니다.

## ▶ 협소한 공간에 최적

CABLIN-UA II 40p 크기는 1센트 동전보다 작습니다.

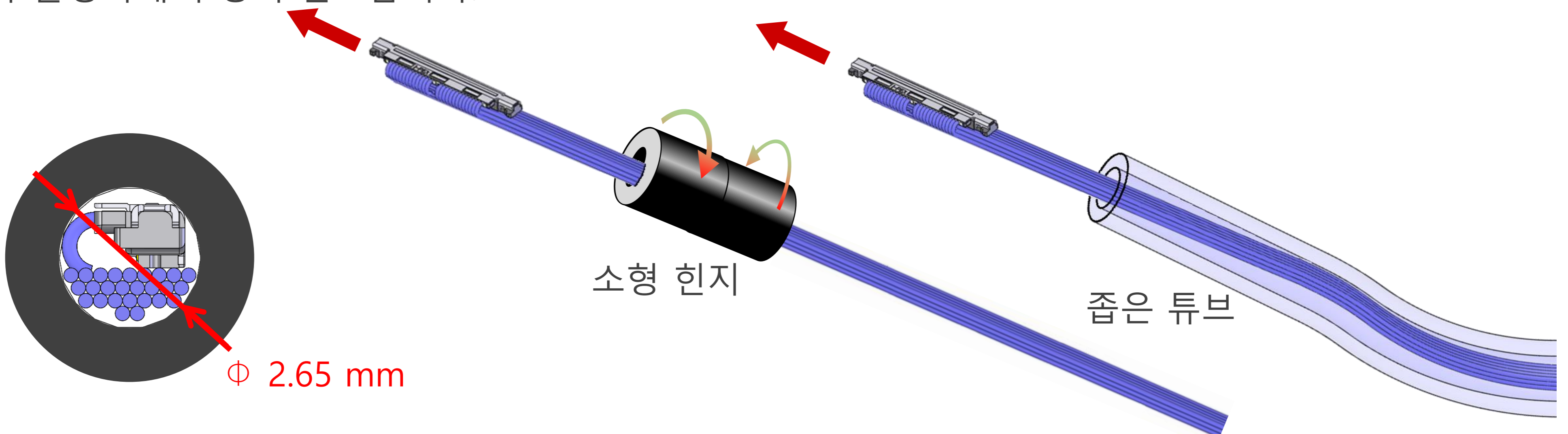


유연한 마이크로 동축 케이블 하네스는 Hinge 디자인이 적용된 소형 애플리케이션에 적합합니다.

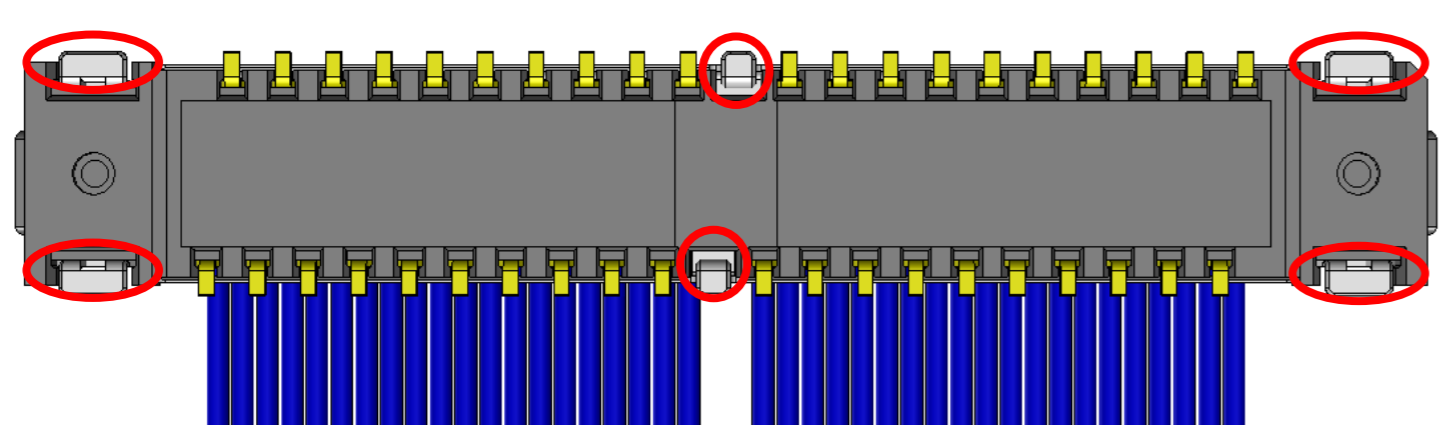
## ▶ 작은 직경을 가진 힌지를 통과 시킬 수 있는 슬림한 Plug 디자인

시뮬레이션 참조 예:

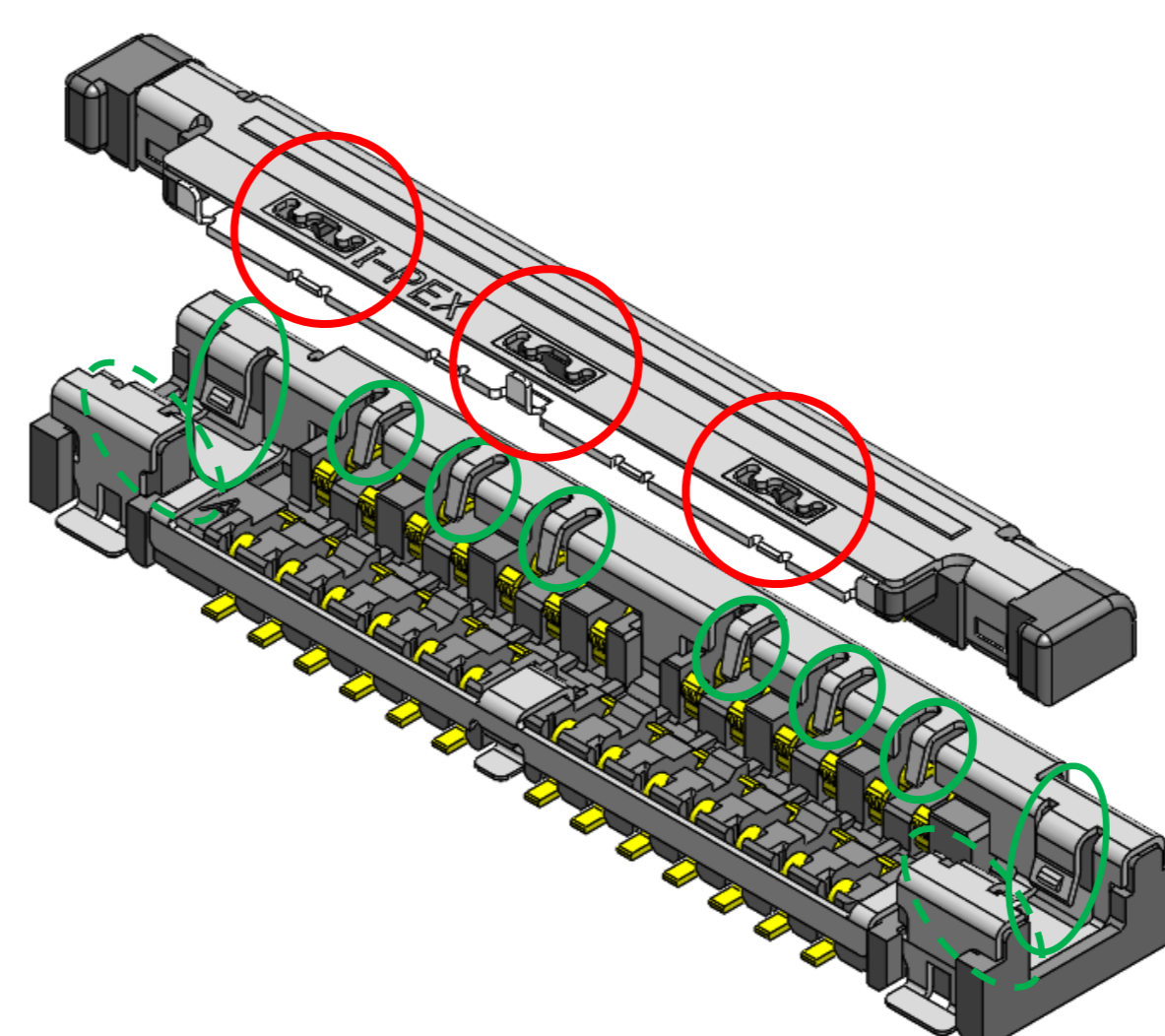
UA II 26p 플러그의 경우, 0.29mm 케이블 외경 하네스의 2.65mm 내경을 통과할 수 있습니다.  
->의미가 불명확해 수정이 필요합니다.



## ▶ EMI 실드 및 멀티 그라운드 접점 설계



아랫면

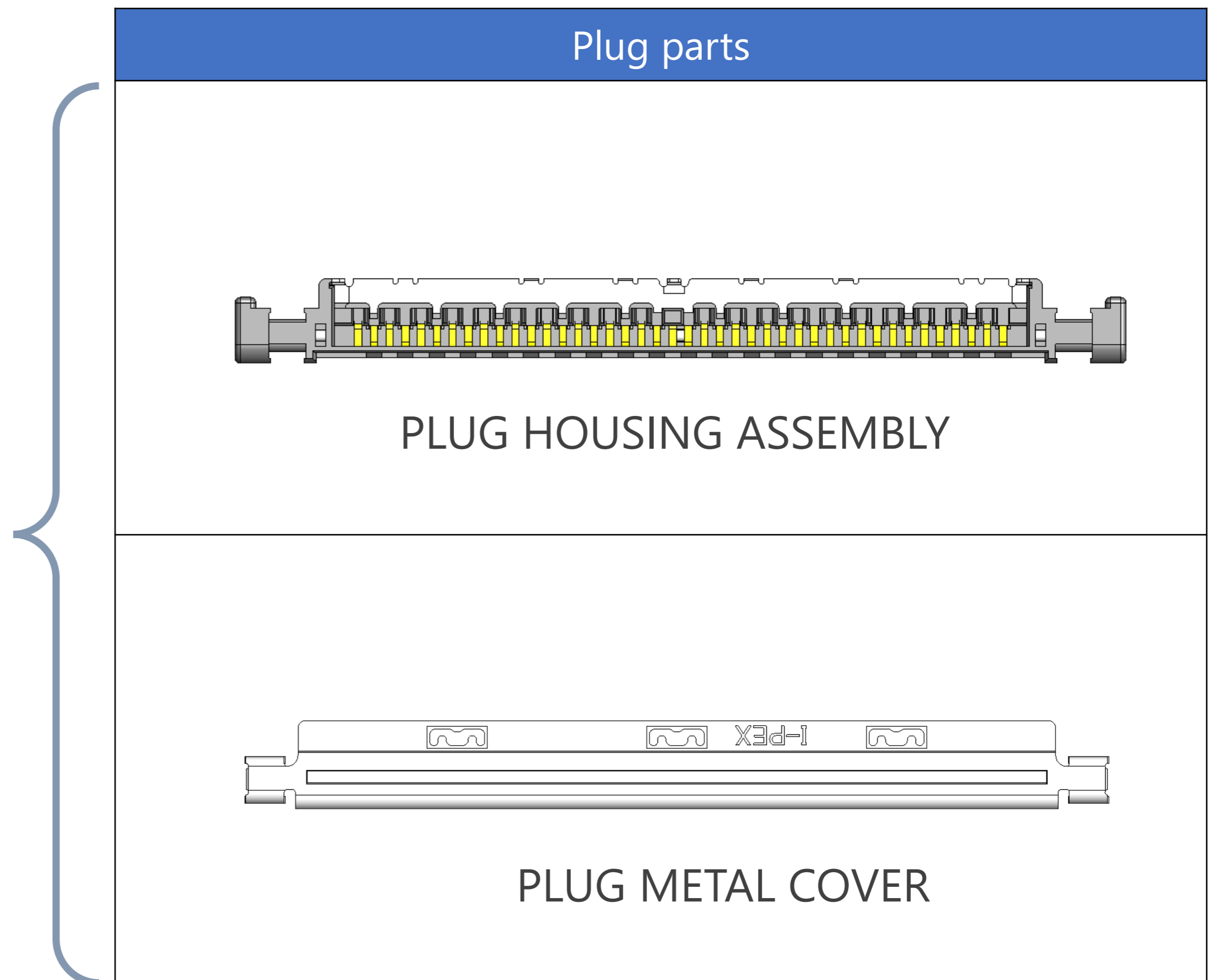
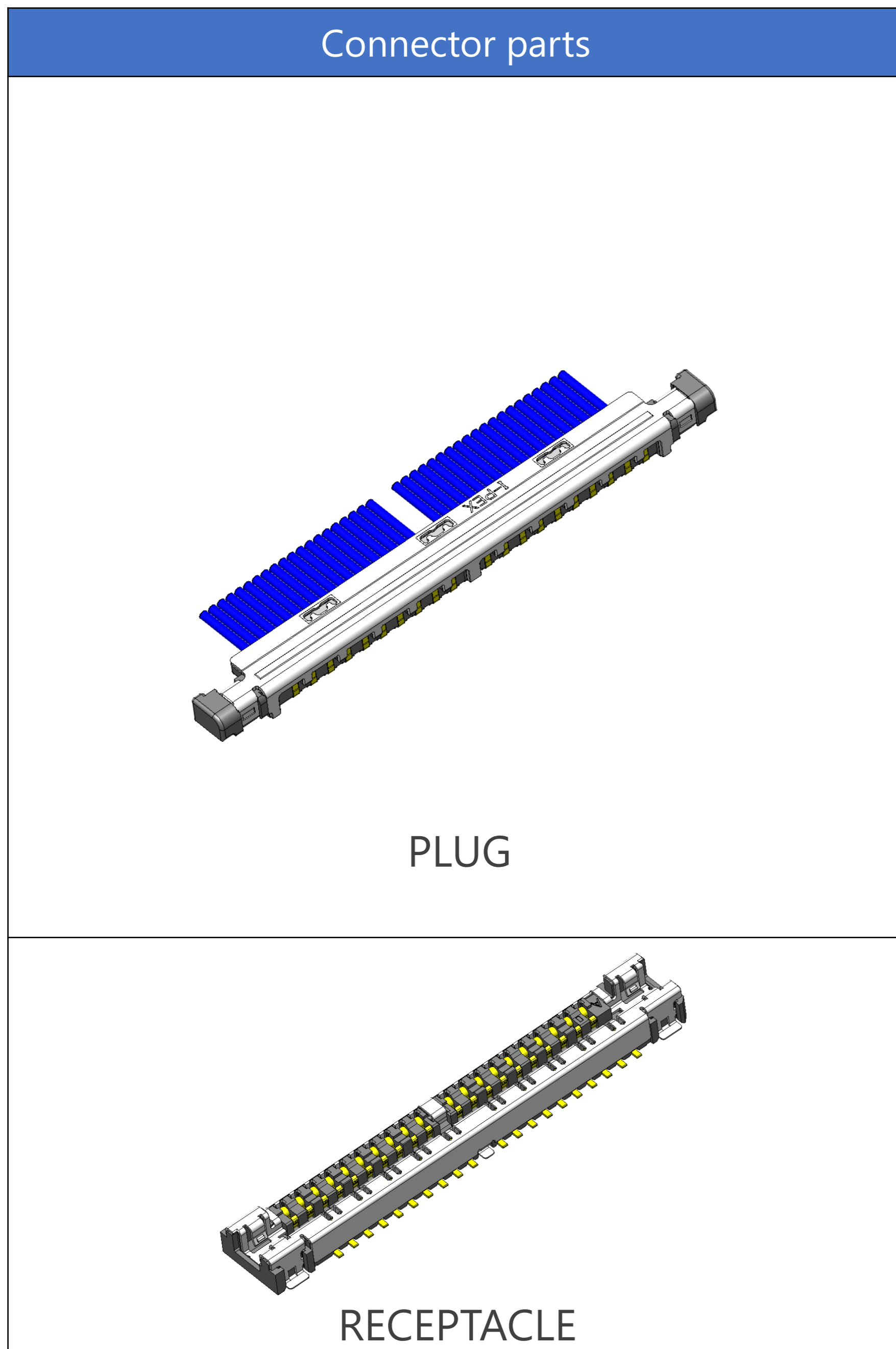


○ 납땜한 접촉부  
○ 기계적 접촉부



# Component Parts Details

## Component Parts



Rev.#

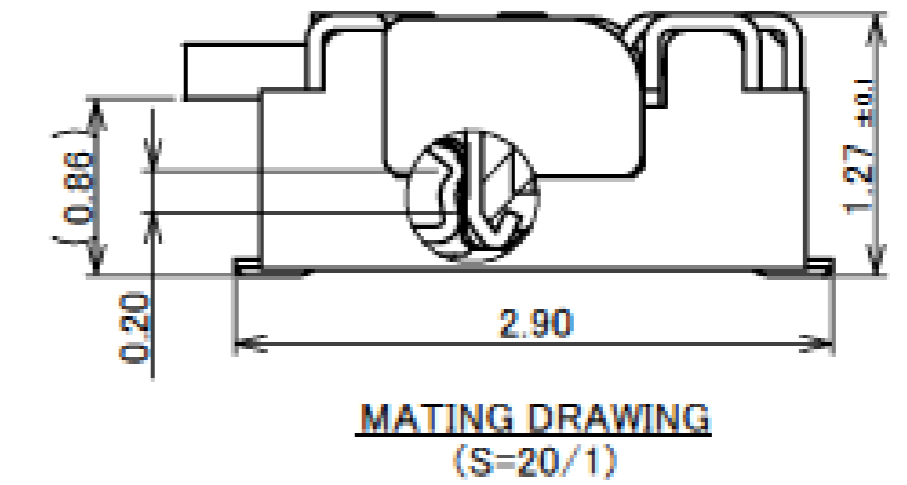
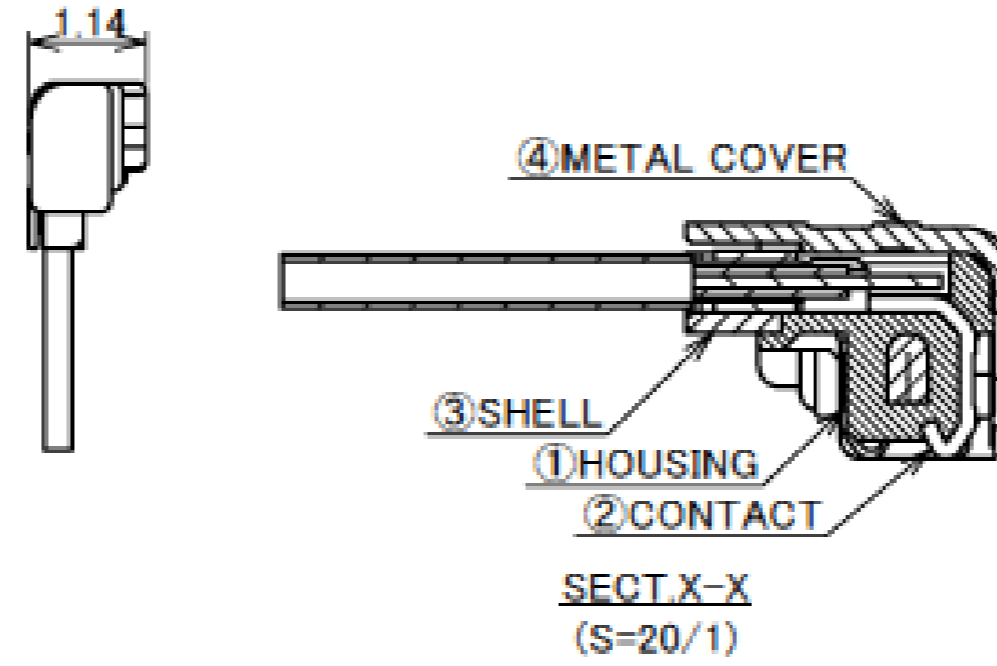
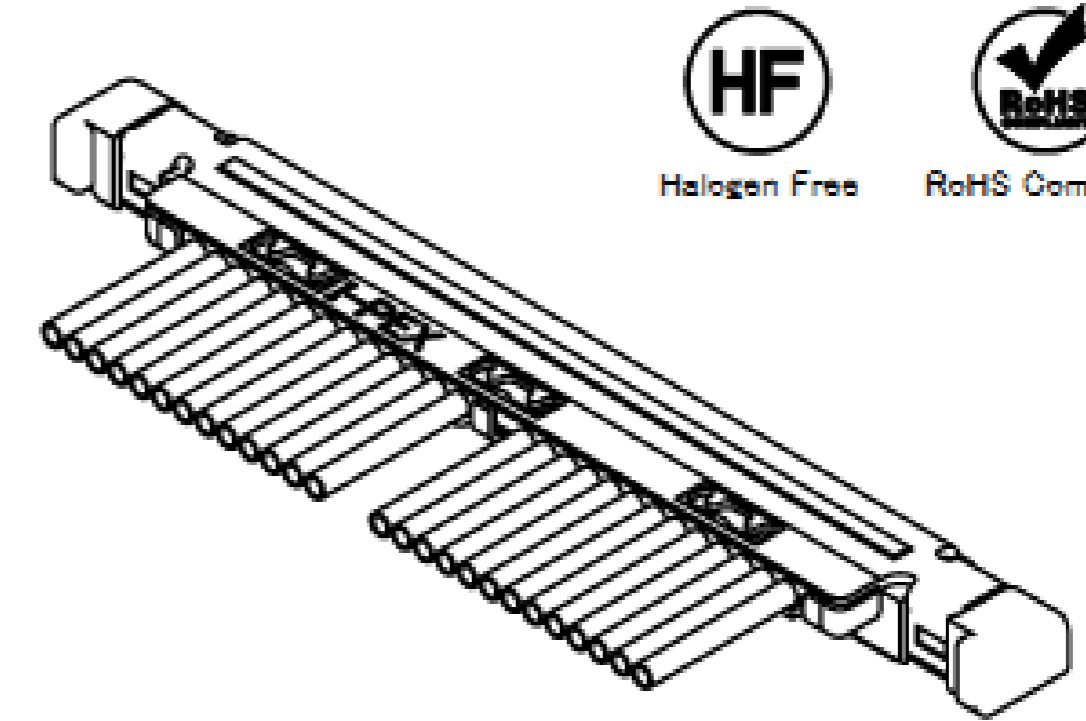
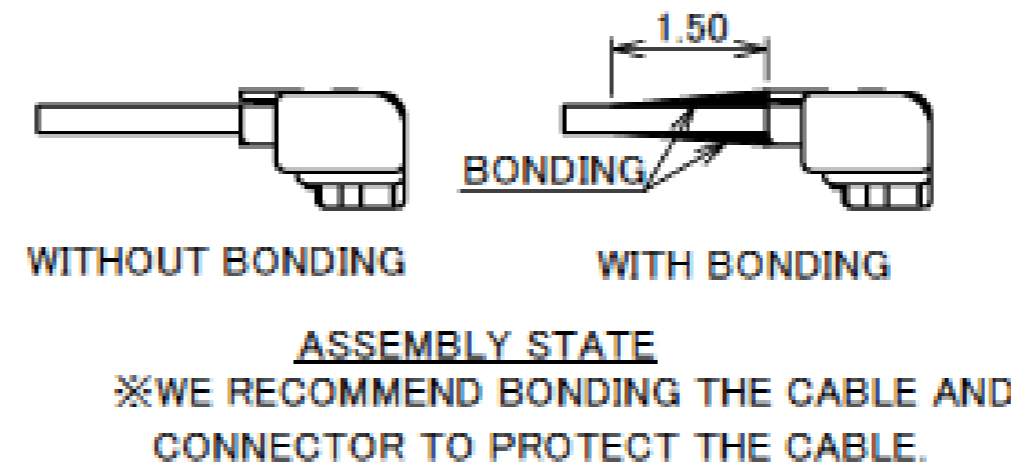
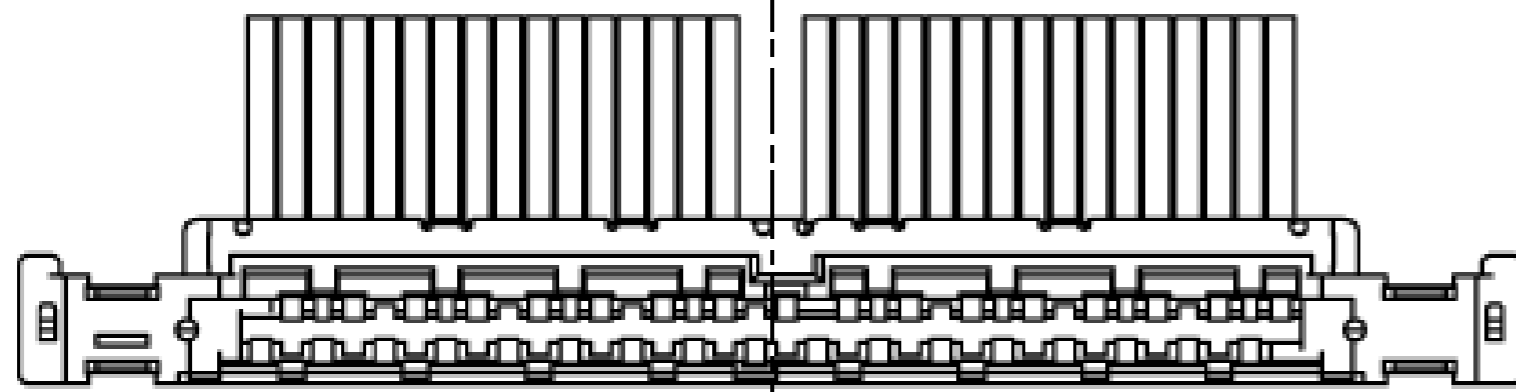
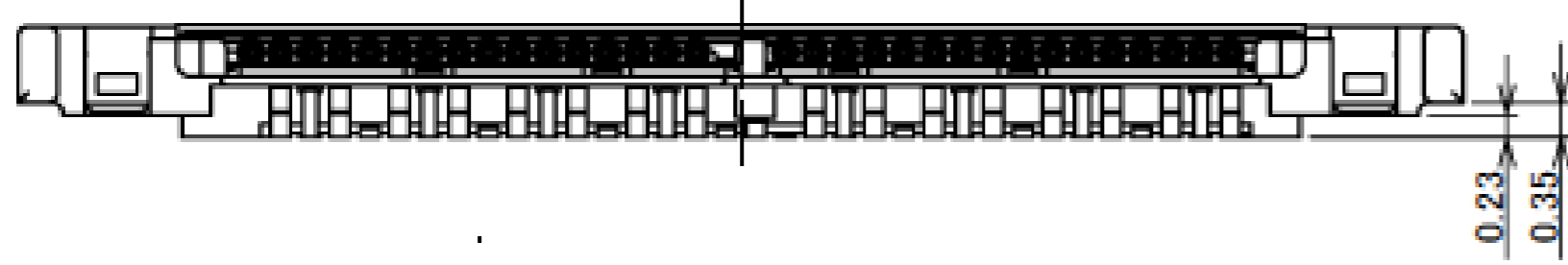
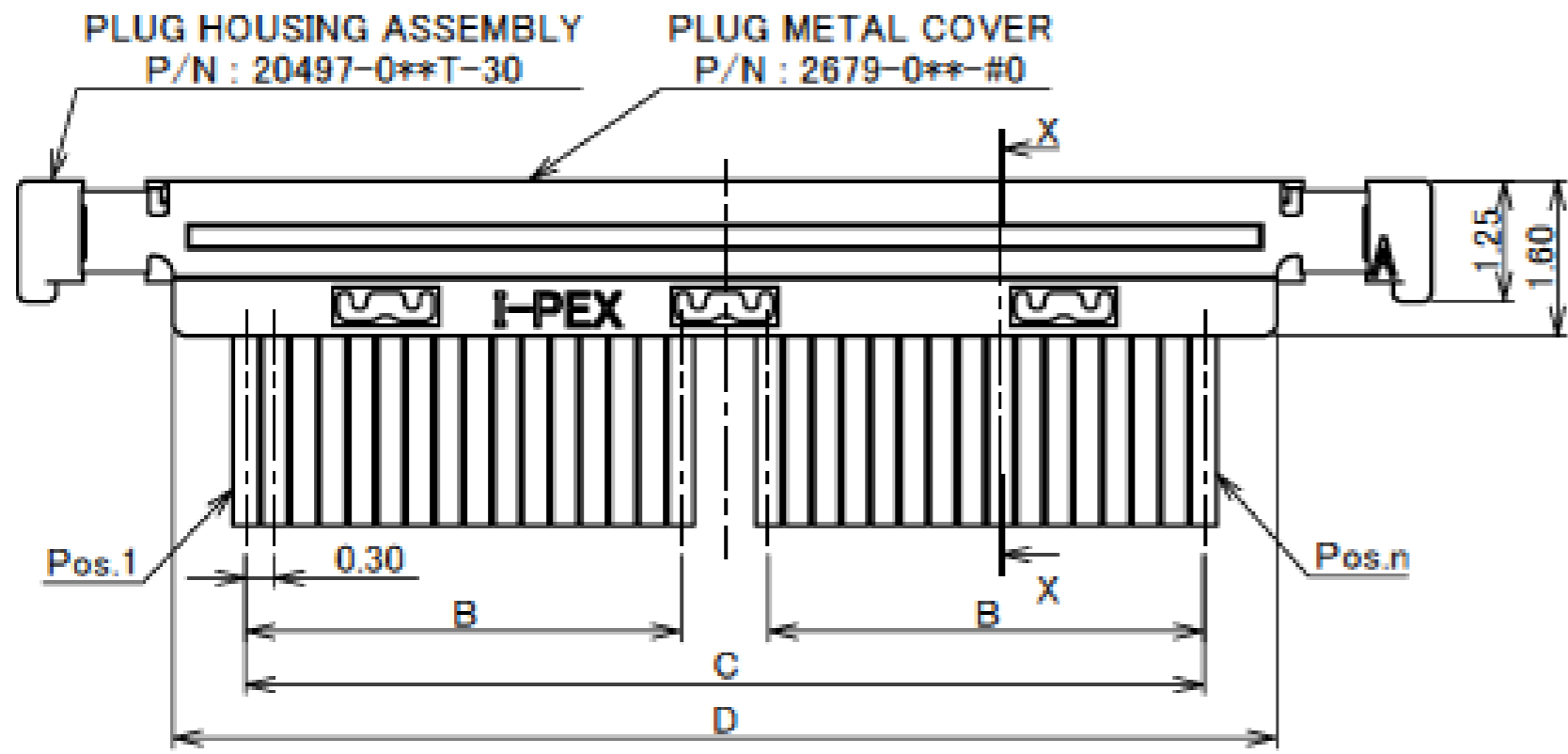
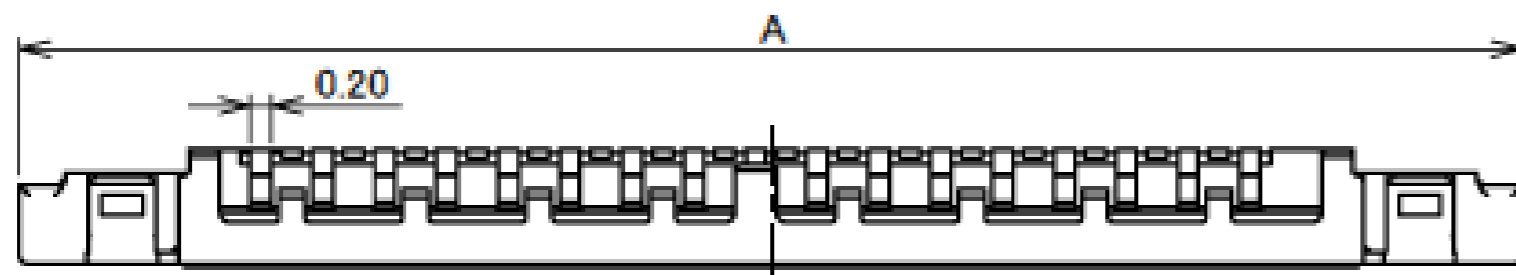
# Plug for Cable Assembly

Recommended P/N		20496-0**-40			
PART No.	POS.	A	B	C	D
20496-026-#0	26	12.8	3.6	8.1	9.6
20496-032-#0	32	14.6	4.5	9.9	11.4
◆ 20496-034-#0	34	15.2	4.8	10.5	12.0
20496-040-#0	40	17.0	5.7	12.3	13.8
20496-050-#0	50	20.0	7.2	15.3	16.8

◆ MARK MEANS NOT AVAILABLE

20496-0\*\*-#0  
 3: METAL COVER Au PLATING  
 4: METAL COVER Sn PLATING  
 Pos.

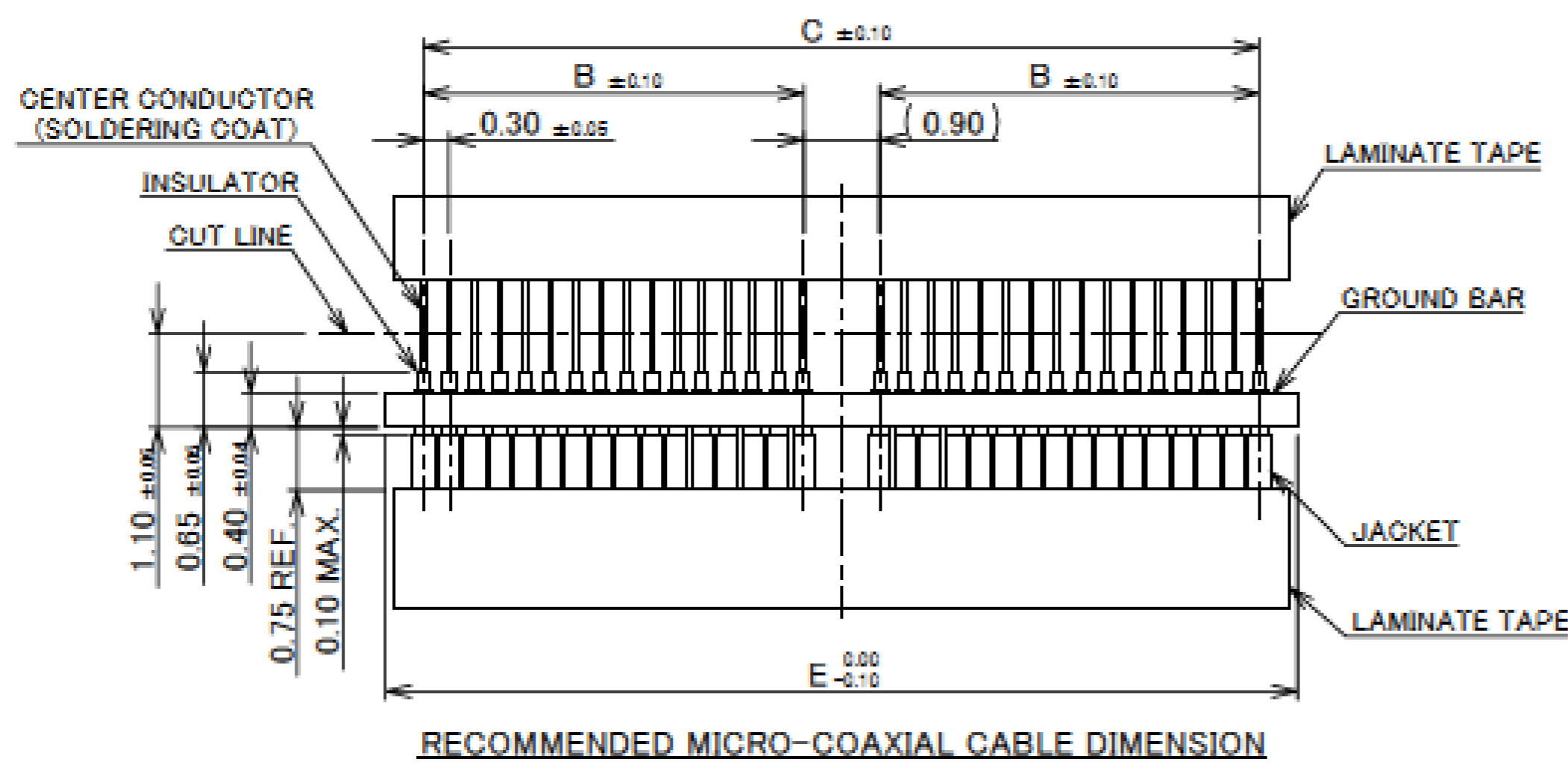
PART COMBINATION TABLE			
PLUG CABLE ASSEMBLY	HOUSING ASSEMBLY	METAL COVER	RECEPTACLE ASSEMBLY
20496-0**-30	20497-0**T-30	2679-0**-00	20498-0**E-3#
20496-0**-40		2679-0**-10	20498-0**E-4#



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	METAL COVER	STAINLESS STEEL	P/N 20496-0**-30: Au 0.05 μm MIN. OVER Ni 1.00 μm MIN. P/N 20496-0**-40: Sn 1.00 μm MIN. OVER Ni 1.00 μm MIN.
3	SHELL	PHOSPHOR BRONZE	Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.10 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

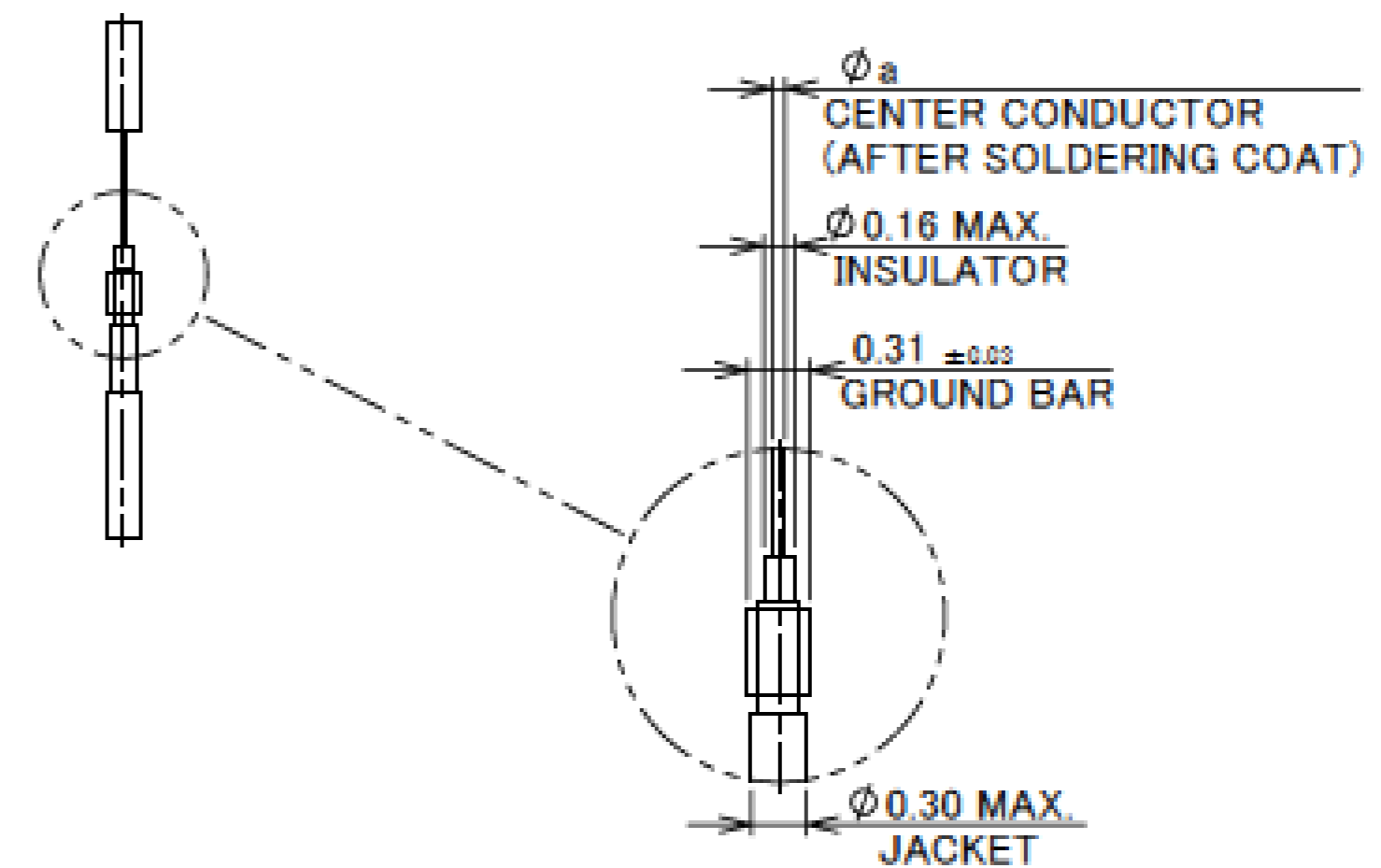
PART No.	POS.	B	C	E
20496-026-#0	26	3.6	8.1	9.0
20496-032-#0	32	4.5	9.9	10.8
◆ 20496-034-#0	34	4.8	10.5	11.4
20496-040-#0	40	5.7	12.3	13.2
20496-050-#0	50	7.2	15.3	16.2

◆ MARK MEANS NOT AVAILABLE



### MICRO-COAXIAL CABLE DIMENSION

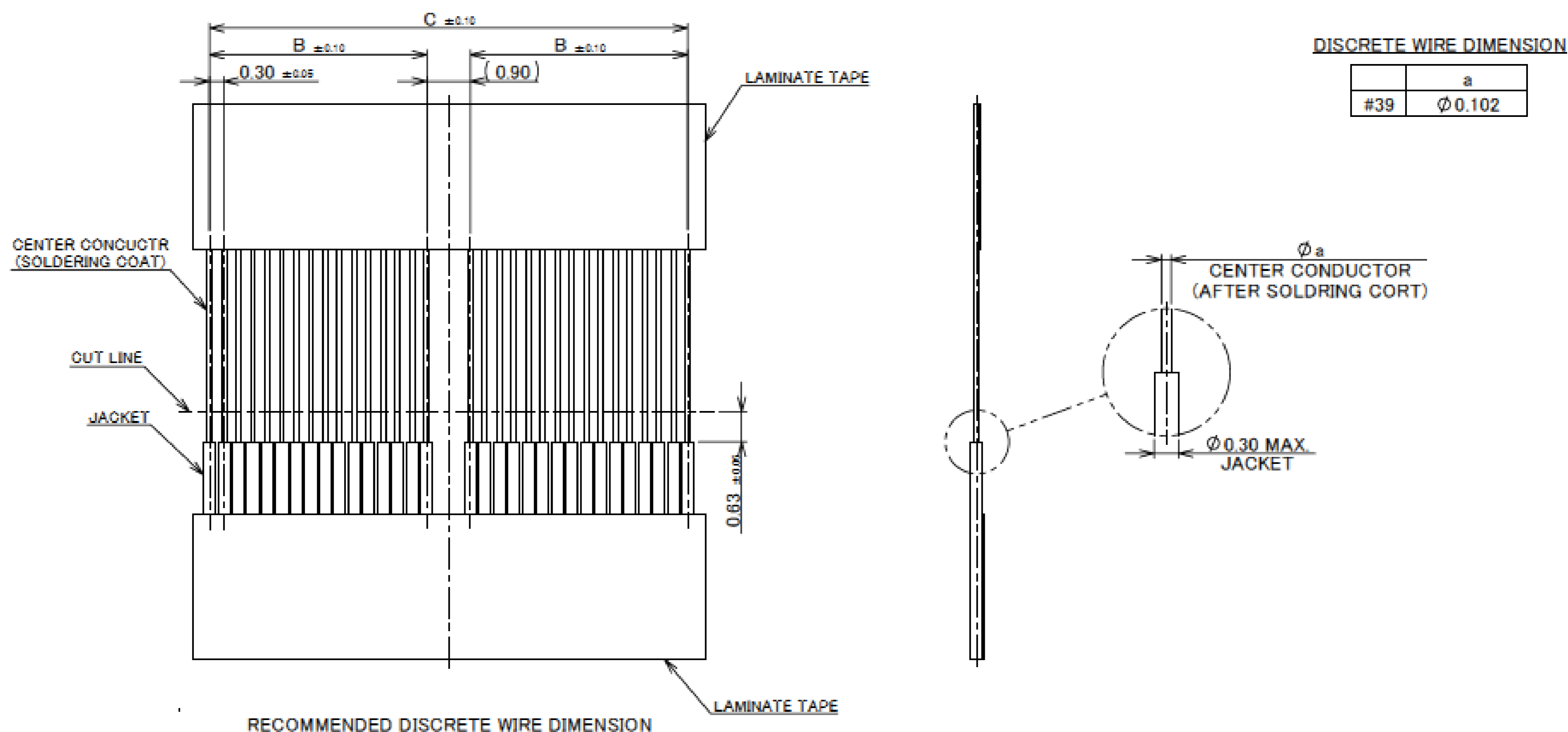
	a
#42	∅ 0.075
#44	∅ 0.063
#46	∅ 0.048



# Plug for Cable Assembly

	PART No.	POS.	B	C
	20496-026-#0	26	3.6	8.1
	20496-032-#0	32	4.5	9.9
◆	20496-034-#0	34	4.8	10.5
	20496-040-#0	40	5.7	12.3
	20496-050-#0	50	7.2	15.3

◆MARK MEANS NOT AVAILABLE



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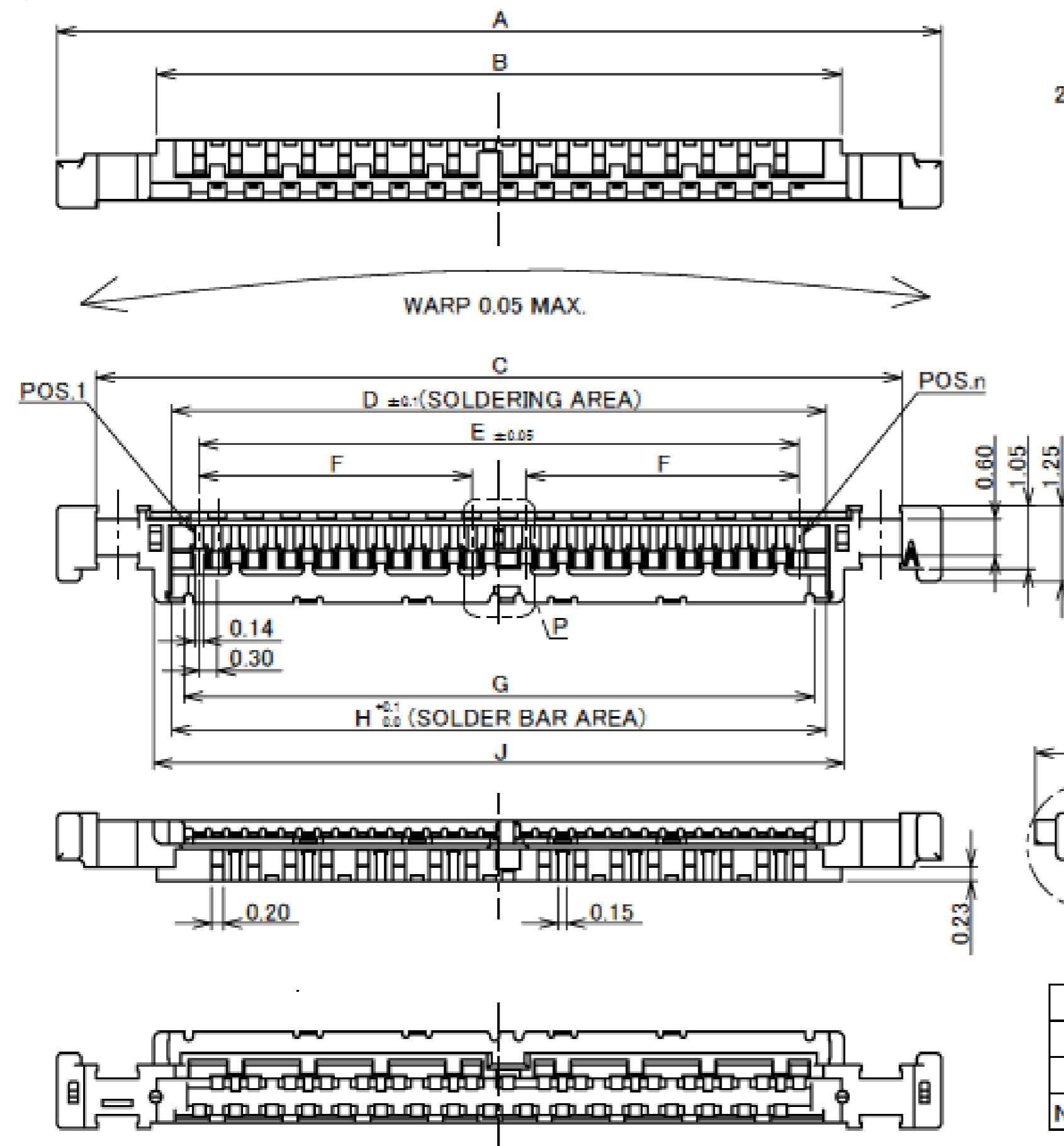
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 46 , 44 , 42 DISCRETE WIRE : AWG# 39
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 10 CONTACTS) 0.15A AC/DC [AWG#46] 0.19A AC/DC [AWG#44] 0.20A AC/DC [AWG#42]
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 450mohm MAX.(AWG#39) 700mohm MAX.(AWG#42) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST : $\triangleleft$ 40mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : $\triangleleft$ 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC100V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / 20 CYCLES)	26P : 28.0N MAX. 32P : 34.5N MAX. 40P : 40.0N MAX. 50P : 50.0N MAX.
UNMATING FORCE (INITIAL / 20 CYCLES)	26P : 3.0N MIN. 32P : 3.0N MIN. 40P : 3.0N MIN. 50P : 3.0N MIN.
CABLE RETENTION FORCE	15.0N MIN. (AWG# 44)
PRODUCT SPECIFICATION	PRS-1469
TEST REPORT	TR-09032
INSTRUCTION MANUAL	HIM-09006
ASSEMBLY MANUAL	ASM-09004
APPEARANCE CRITERIA No.	QLS-A***

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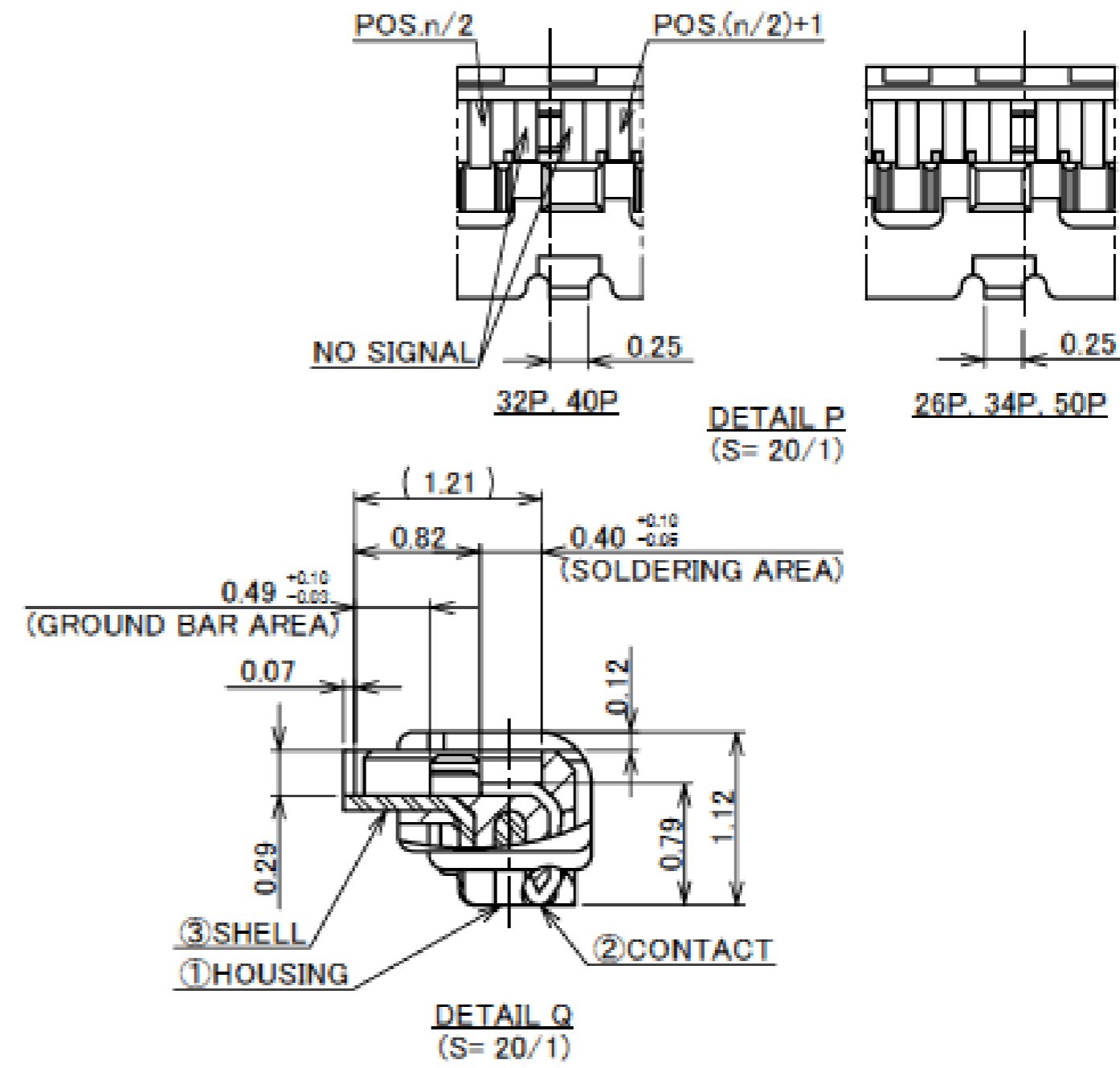
# Plug Housing Assembly

Recommended P/N		20497-0**T-30									
PART No.	POS.	A	B	C	D	E	F	G	H	J	
20497-026T-30	26	12.8	9.5	11.5	9.0	8.1	3.6	8.6	9.0	9.6	
20497-032T-30	32	14.6	11.3	13.3	10.8	9.9	4.5	10.4	10.8	11.4	
◆ 20497-034T-30	34	15.2	11.9	13.9	11.4	10.5	4.8	11.0	11.4	12.0	
20497-040T-30	40	17.0	13.7	15.7	13.2	12.3	5.7	12.8	13.2	13.8	
20497-050T-30	50	20.0	16.7	18.7	16.2	15.3	7.2	15.8	16.2	16.8	

◆ MARK MEANS NOT AVAILABLE.



PART COMBINATION TABLE		
PLUG CABLE ASS'Y	PLUG HOUSING ASS'Y	METAL COVER
20496-0**-30	20497-0**T-30	2679-0**-00
20496-0**-40		2679-0**-10



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL	PHOSPHOR BRONZE	Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

## NOTES

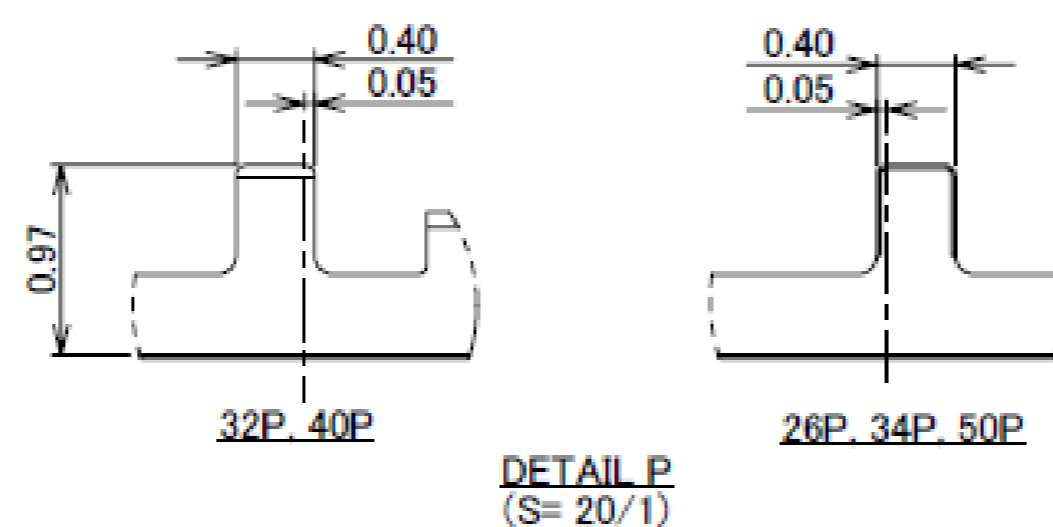
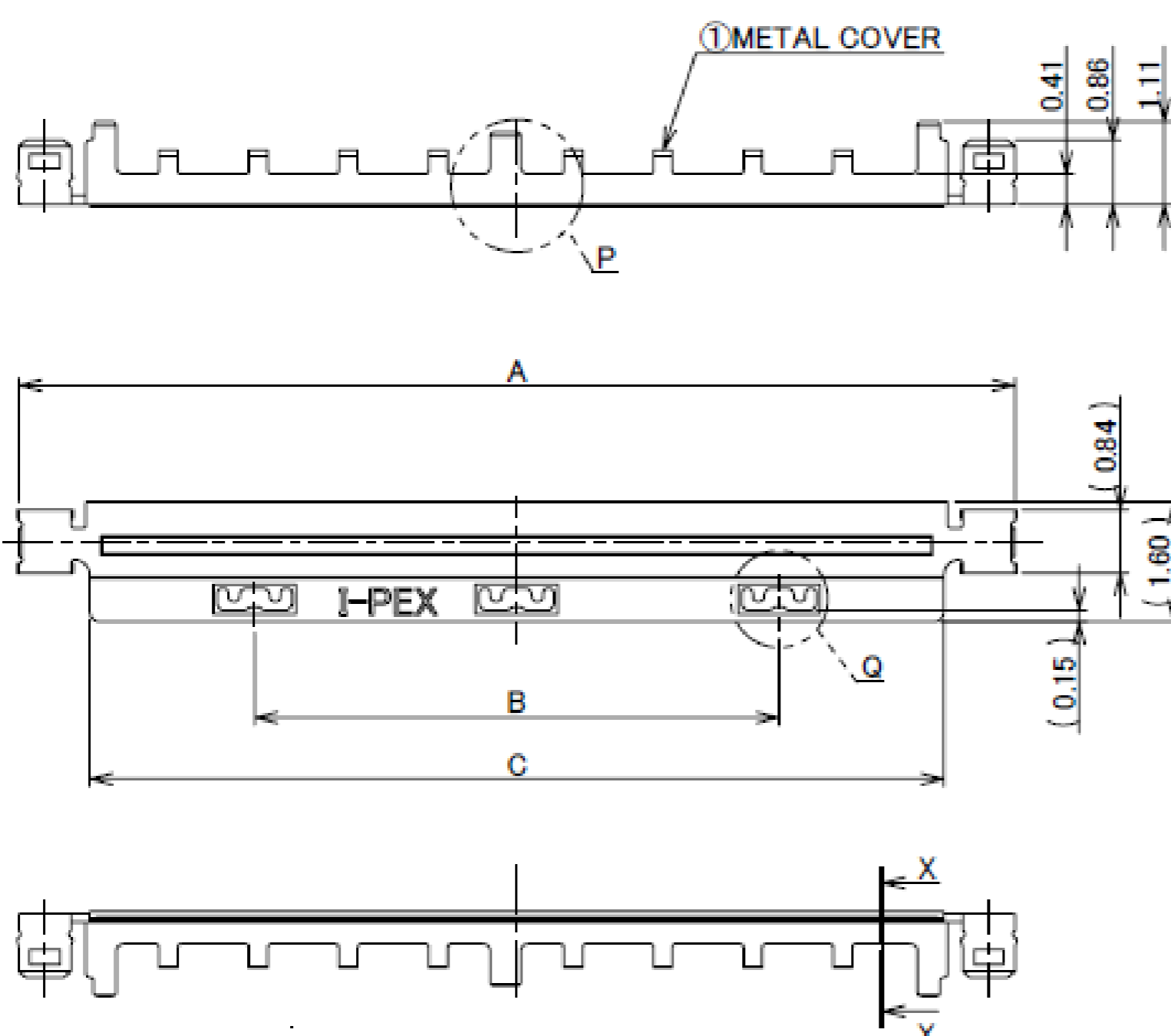
- THIS PART IS ASSEMBLED METAL COVER (P/N 2679-0\*\*-#0) AFTER SOLDERED THE COAXIAL CABLE, AND IT BECOMES P/N 20496-0\*\*-#0.
- PRODUCT SPECIFICATION : DOCUMENT No. PRS-1469  
ASSEMBLY MANUAL : DOCUMENT No. ASM-09004

Rev.13

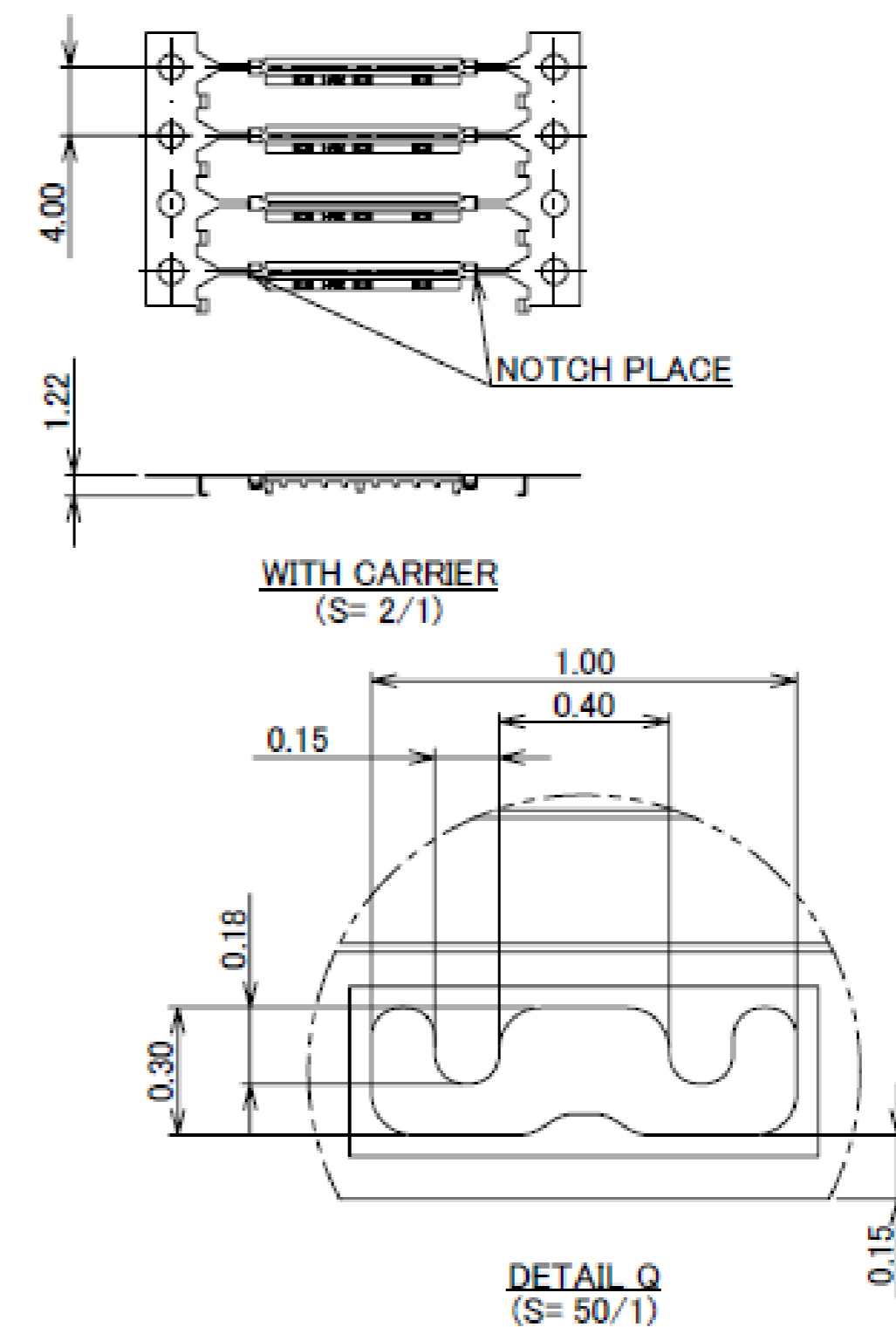
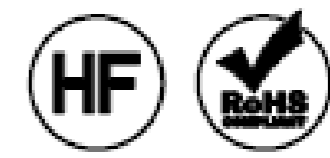
# Plug Metal Cover

Recommended P/N		2679-0**-10		
PART NO.	POS.	A	B	C
2679-026-#0	26	11.5	6.0	9.6
2679-032-#0	32	13.3	7.0	11.4
◆ 2679-034-#0	34	13.9	8.0	12.0
2679-040-#0	40	15.7	8.0	13.8
2679-050-#0	50	18.7	12.0	16.8

◆ MARK MEANS NOT AVAILABLE.



2679-0\*\*-#0  
0: METAL COVER Au PLATING  
1: METAL COVER Sn PLATING  
Pos.



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
1	METAL COVER	STAINLESS STEEL	t=0.12 P/N 2679-0**-00: Au 0.05 μm MIN. OVER Ni 1.00 μm MIN. P/N 2679-0**-10: Sn 1.00 μm MIN. OVER Ni 1.00 μm MIN.

## NOTES

- APPLICABLE PLUG HOUSING ASS'Y  
P/N 20497-0\*\*T-30
- PRODUCT SPECIFICATION : DOCUMENT No. PRS-1469  
ASSEMBLY MANUAL : DOCUMENT No. ASM-09004

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# Receptacle Assembly

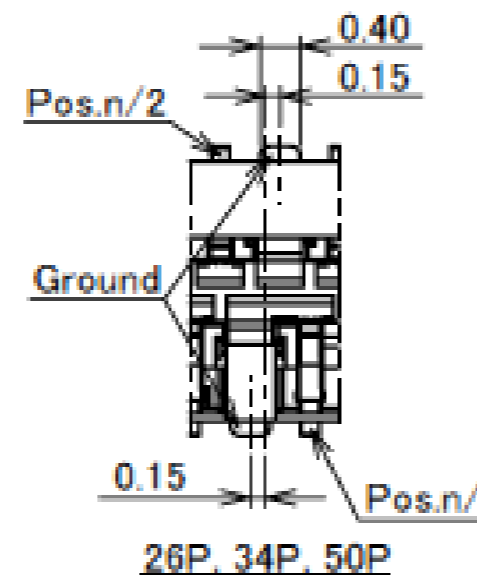
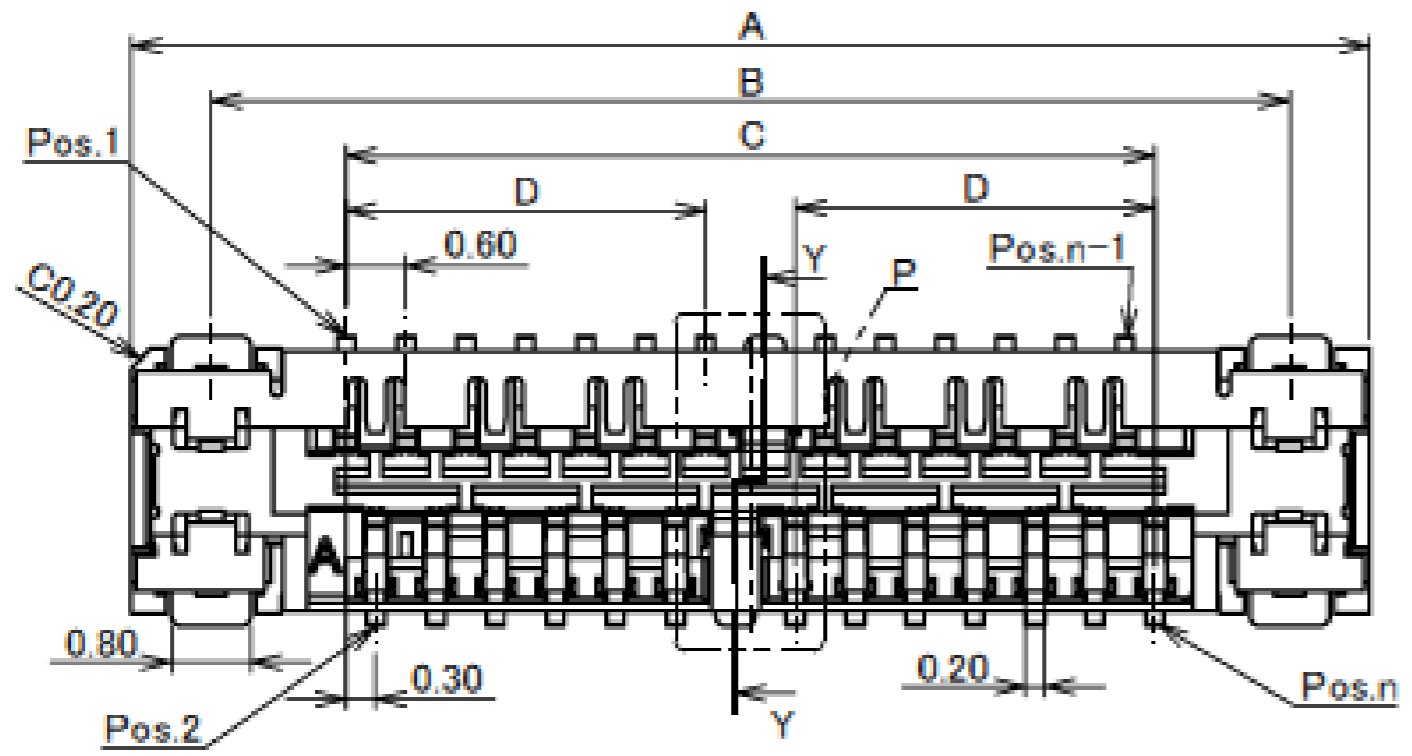
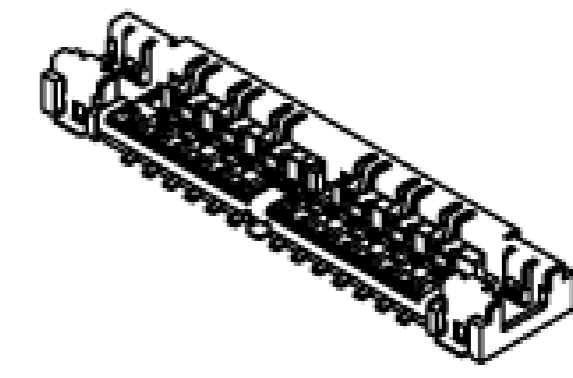
Recommended P/N		20498-0**E-41				
PART No.	Pos.	A	B	C	D	E
20498-026E-##	26	12.4	10.8	8.1	3.6	6.7
20498-032E-##	32	14.2	12.6	9.9	4.5	10.9
◆ 20498-034E-##	34	14.8	13.2	10.5	4.8	11.5
20498-040E-##	40	16.6	15.0	12.3	5.7	10.9
20498-050E-##	50	19.6	18.0	15.3	7.2	11.5

◆ MARK MEANS NOT AVAILABLE

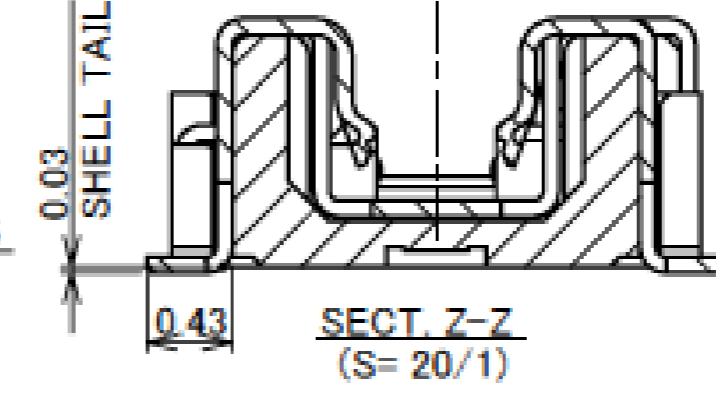
20498-0\*\*E-##  
 0: WITHOUT VACUUM CLIP  
 1: WITH VACUUM CLIP  
 3: SHELL Au PLATING  
 4: SHELL Sn PLATING  
 Pos.



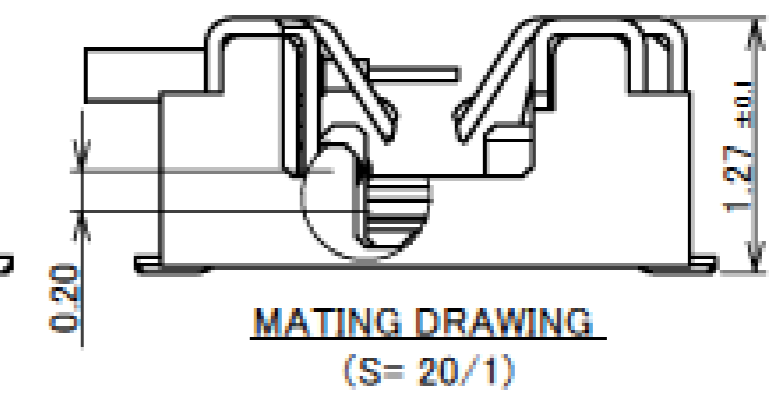
PART COMBINATION TABLE	
RECEPTACLE ASSEMBLY	PLUG CABLE ASSEMBLY
20498-0**E-3#	20496-0**--30
20498-0**E-4#	20496-0**--40



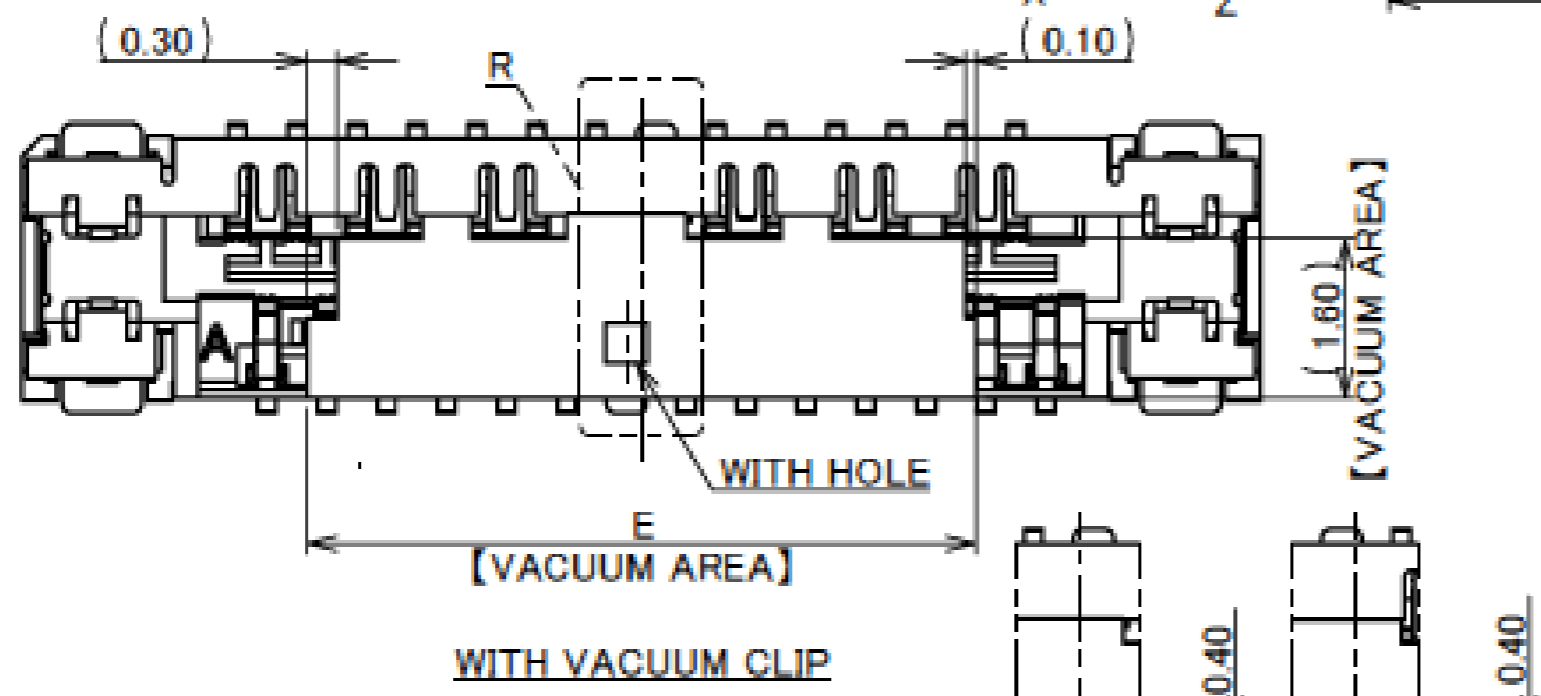
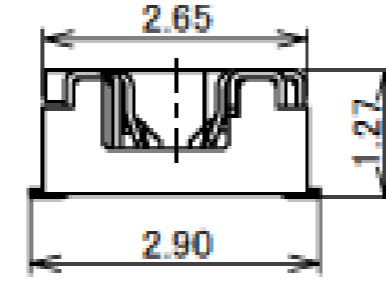
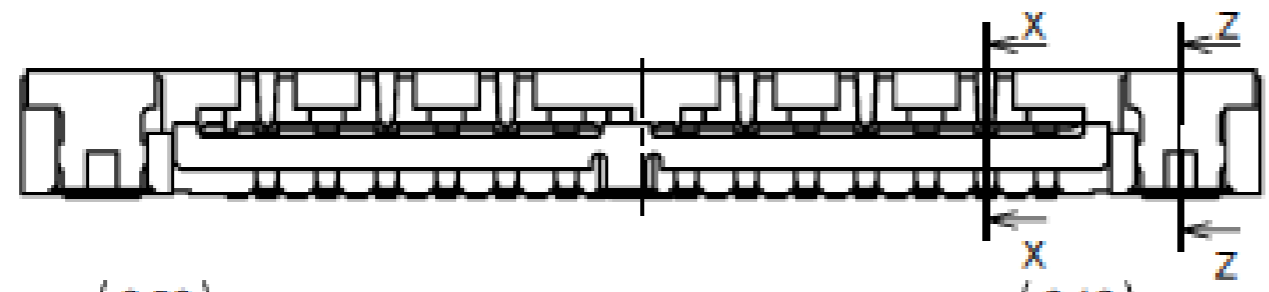
DETAIL P



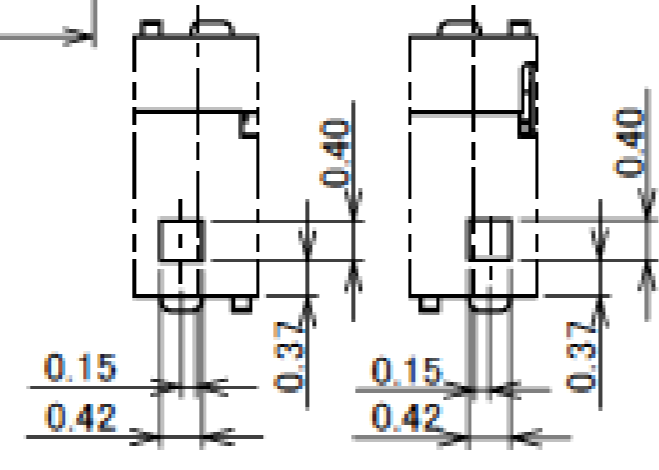
SECT. Z-Z  
(S= 20/1)



MATING DRAWING  
(S= 20/1)



WITH VACUUM CLIP



26P, 34P, 50P 32P, 40P

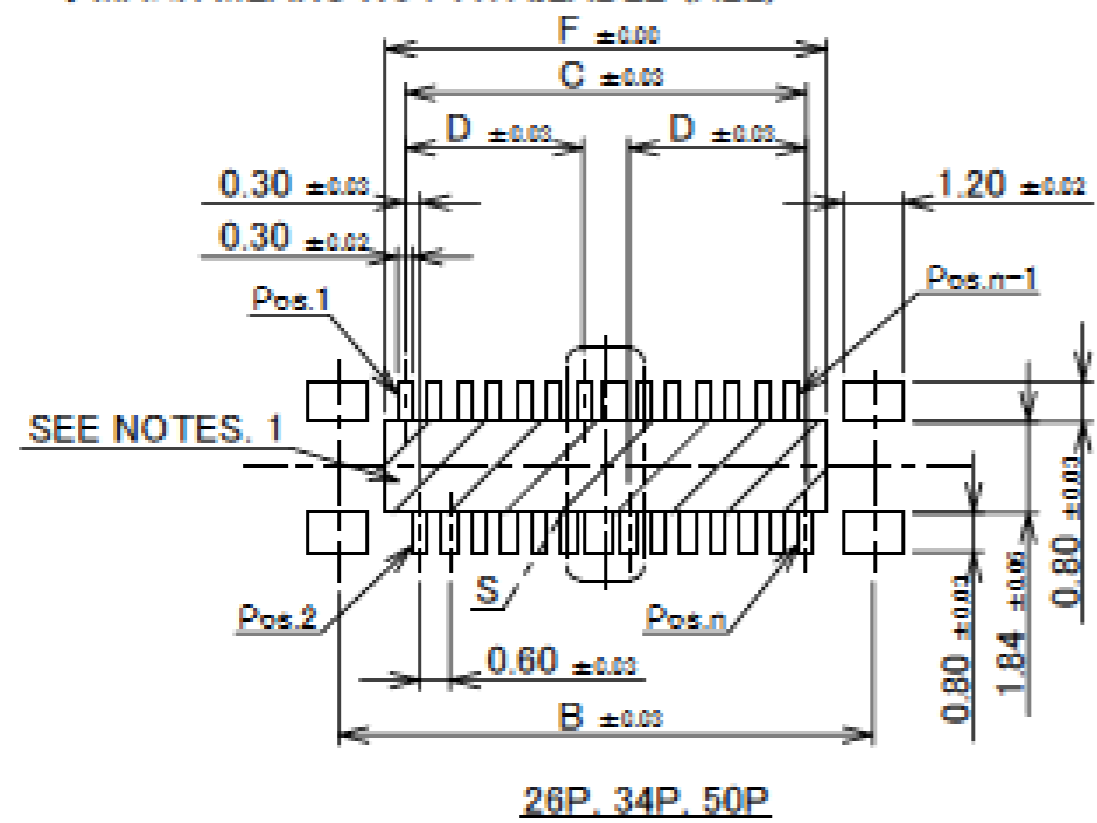
DETAIL R

NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS
4	VACUUM CLIP	LCP	UL94V-0
3	SHELL	PHOSPHOR BROMZE	P/N 20498-0**E-3#: Au 0.02 μm MIN. OVER Ni 1.00 μm MIN. P/N 20498-0**E-4#: Sn 2.00 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER : Ni 1.00 μm MIN. CONTACT AREA : Au 0.1 μm MIN. SOLDERING AREA : Au 0.05 μm MIN.
1	HOUSING	LCP	UL94V-0

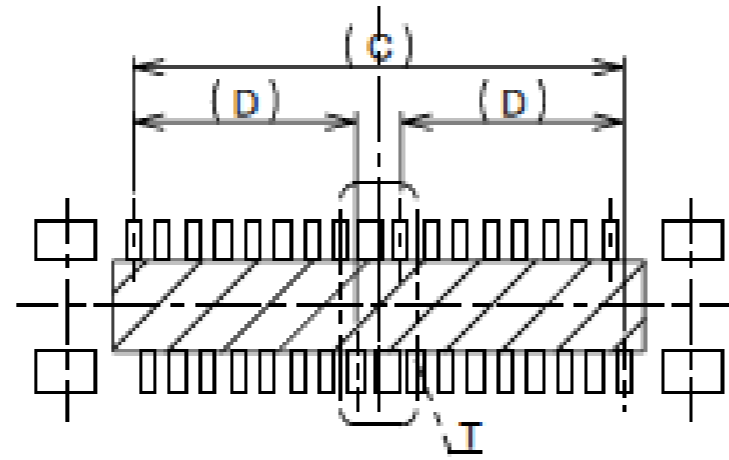
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PART No.	Pos.	A	B	C	D	F
20498-026E-##	26	12.4	10.8	8.1	3.6	8.9
20498-032E-##	32	14.2	12.6	9.9	4.5	10.7
◆ 20498-034E-##	34	14.8	13.2	10.5	4.8	11.3
20498-040E-##	40	16.6	15.0	12.3	5.7	13.1
20498-050E-##	50	19.6	18.0	15.3	7.2	16.1

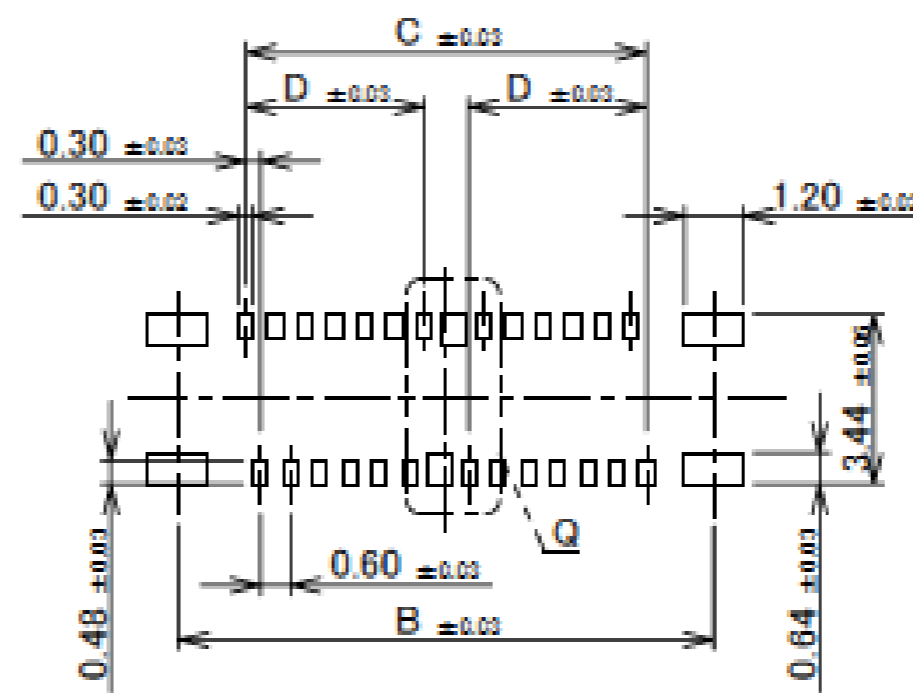
◆ MARK MEANS NOT AVAILABLE (ALL)



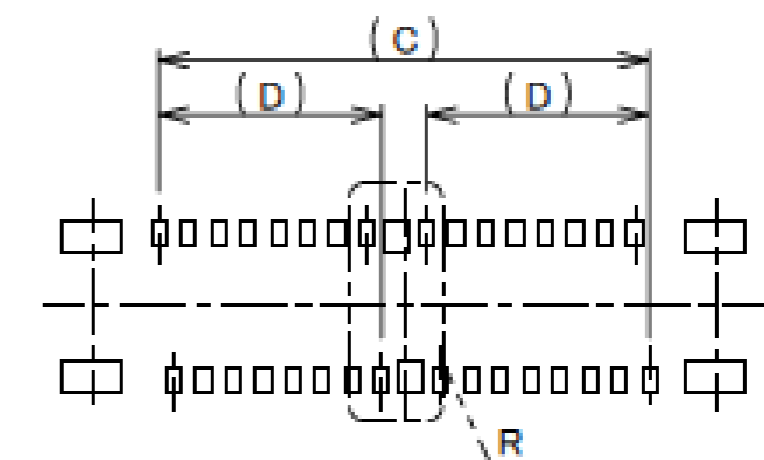
26P, 34P, 50P



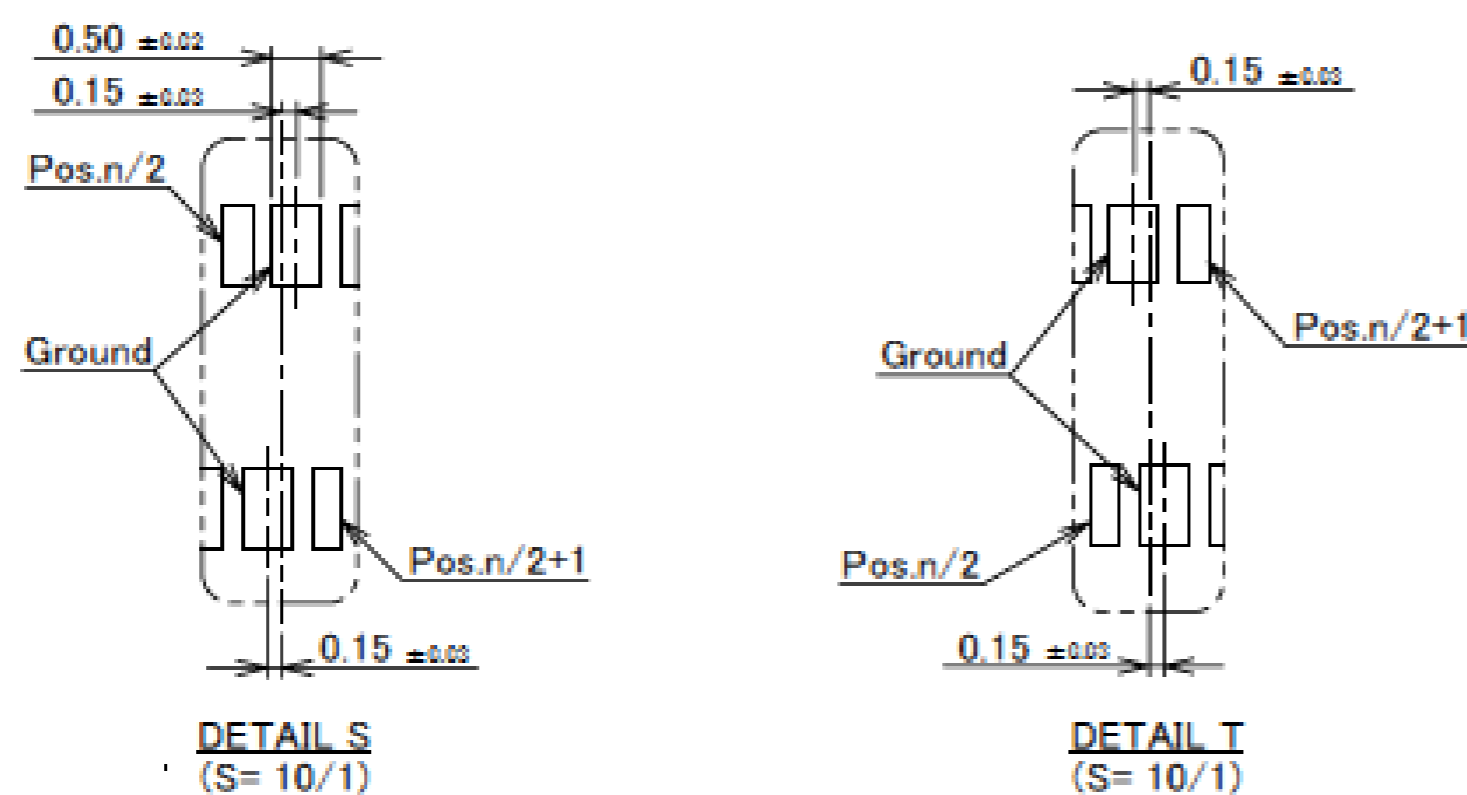
32P, 40P



26P, 34P, 50P

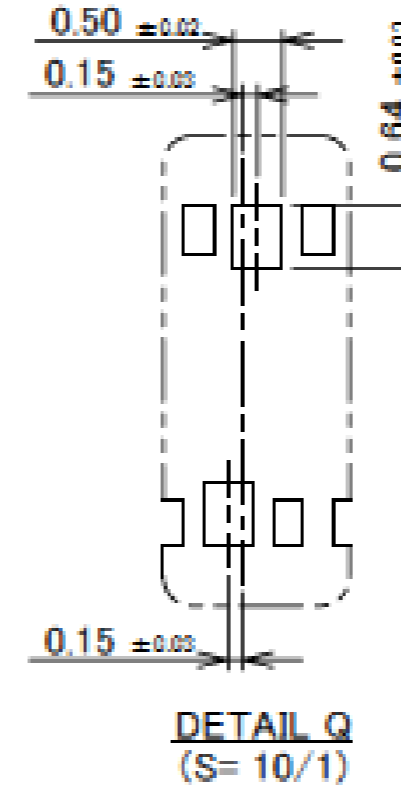


32P, 40P

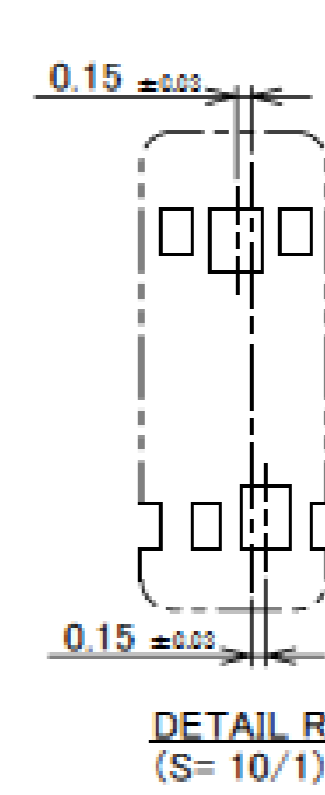


DETAIL S  
(S= 10/1)

DETAIL T  
(S= 10/1)



DETAIL Q  
(S= 10/1)



DETAIL R  
(S= 10/1)

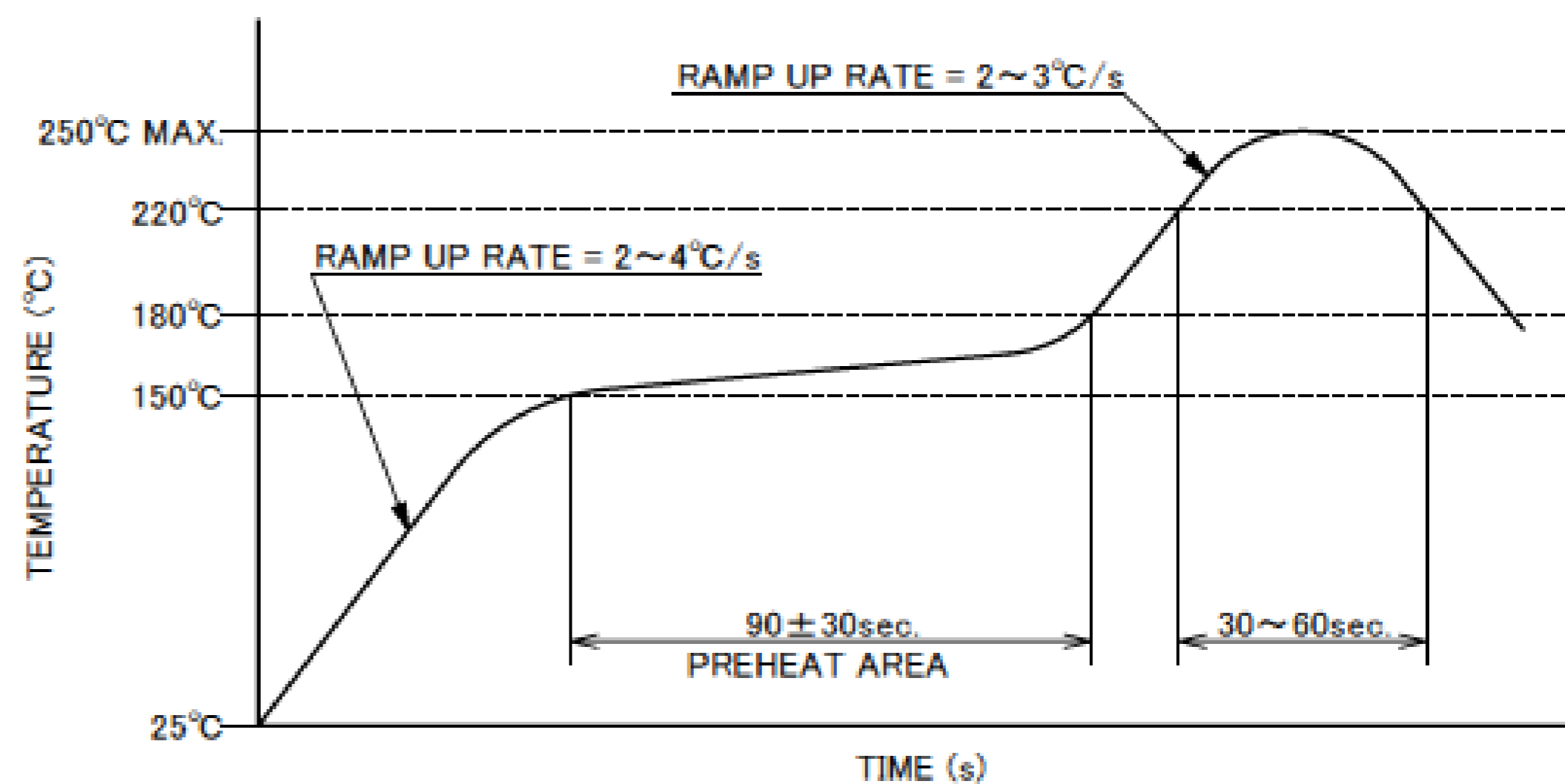
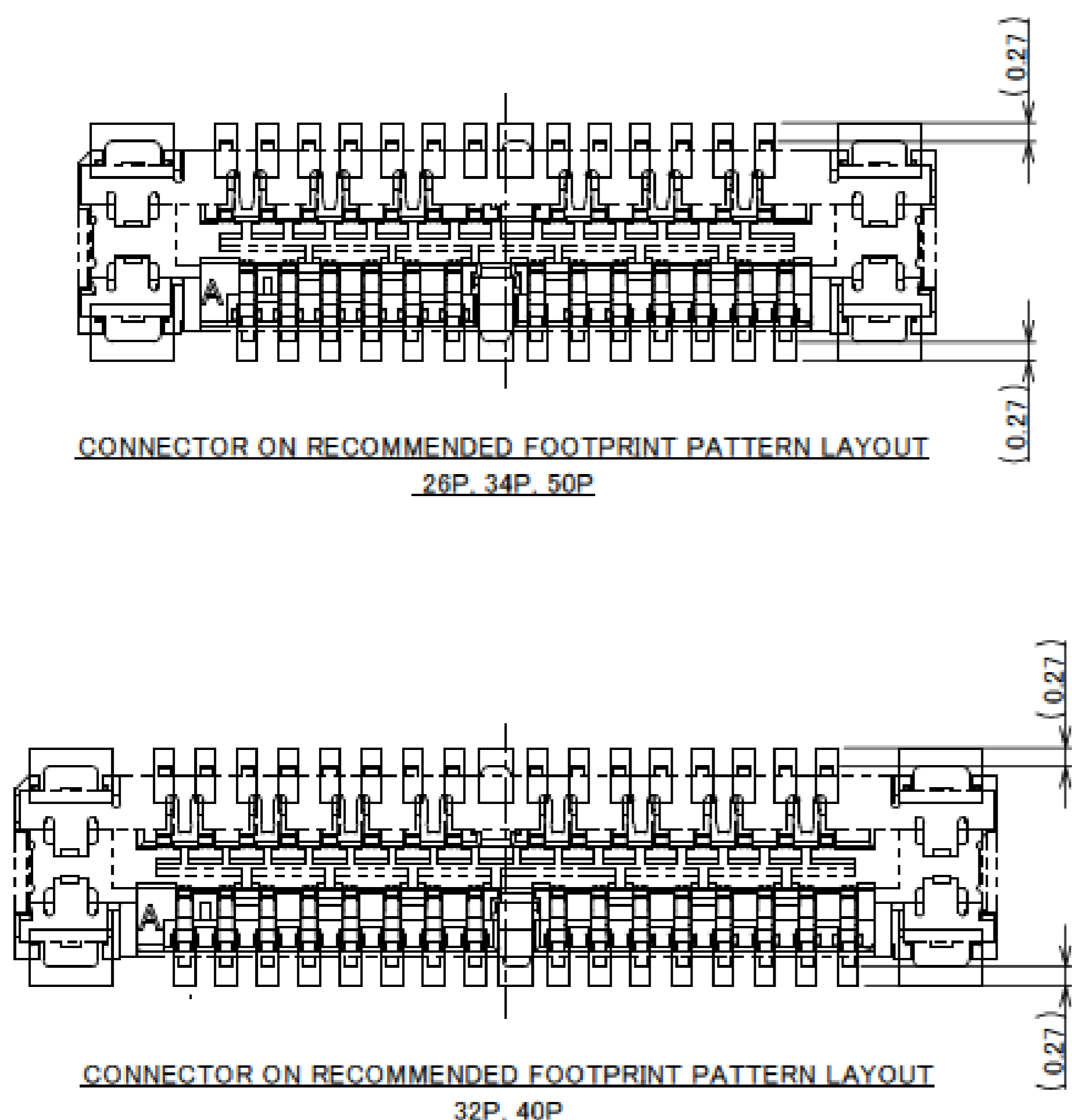
RECOMMENDED FOOTPRINT PATTERN LAYOUT

RECOMMENDED FOOTPRINT METAL MASK LAYOUT  
 METAL MASK THICKNESS : t=0.12 μm

NOTES.  
 1. SOLDER RESIST MUST BE APPLIED TO THIS AREA

Rev.19

# Receptacle Assembly



Rev.19

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 46 , 44 , 42 DISCRETE WIRE : AWG# 39
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 10 CONTACTS) 0.20A AC/DC [AWG#42] 0.19A AC/DC [AWG#44] 0.15A AC/DC [AWG#46] ※ TESTING BY A REAL MACHINE IS RECOMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 450mohm MAX.(AWG#39) 700mohm MAX.(AWG#42) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST : <math>\triangleleft</math>40mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : <math>\triangleleft</math>40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC100V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / 20 CYCLES)	26P : 28.0N MAX. 32P : 34.5N MAX. 40P : 40.0N MAX. 50P : 50.0N MAX.
UNMATING FORCE (INITIAL / 20 CYCLES)	26P : 3.0N MIN. 32P : 3.0N MIN. 40P : 3.0N MIN. 50P : 3.0N MIN.
COPLANARITY	0.10MAX
CABLE RETENTION FORCE	15.0N MIN. (AWG# 44)
PRODUCT SPECIFICATION	PRS-1469
TEST REPORT	TR-09032
PACKING STANDARD	300-697
INSTRUCTION MANUAL	HIM-09006
ASSEMBLY MANUAL	ASM-09004
APPEARANCE CRITERIA No.	QLS-A***

Rev.19



# Custom Connectors Available

 RF Connector

MHF® series



Micro-coaxial/Twinax/  
Discrete Wire Connector



CABLINE® series



Optical Module

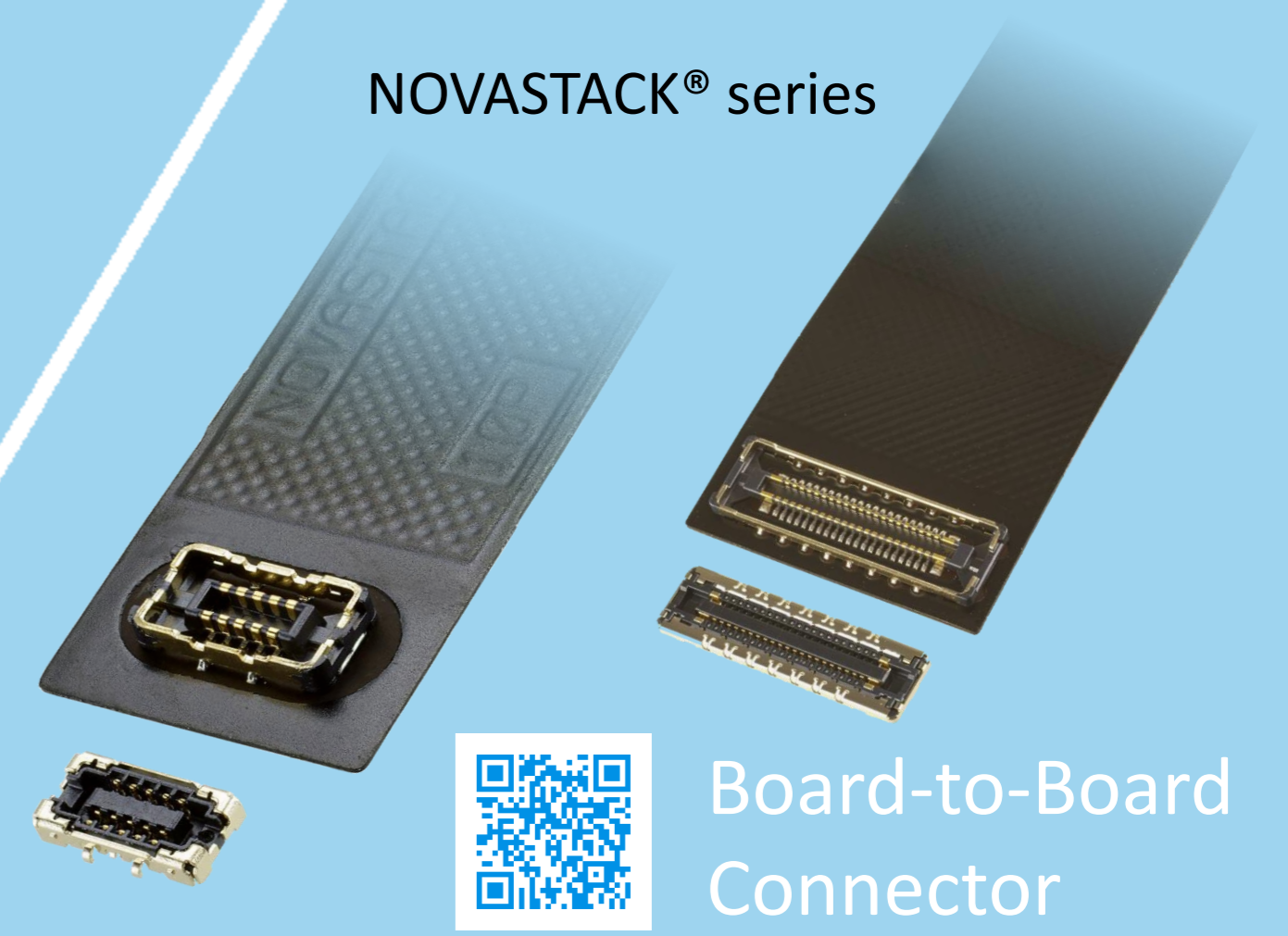
LIGHTPASS® series



NOVASTACK® series



Board-to-Board Connector



Power Connector/  
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series



FPC FFC Connector



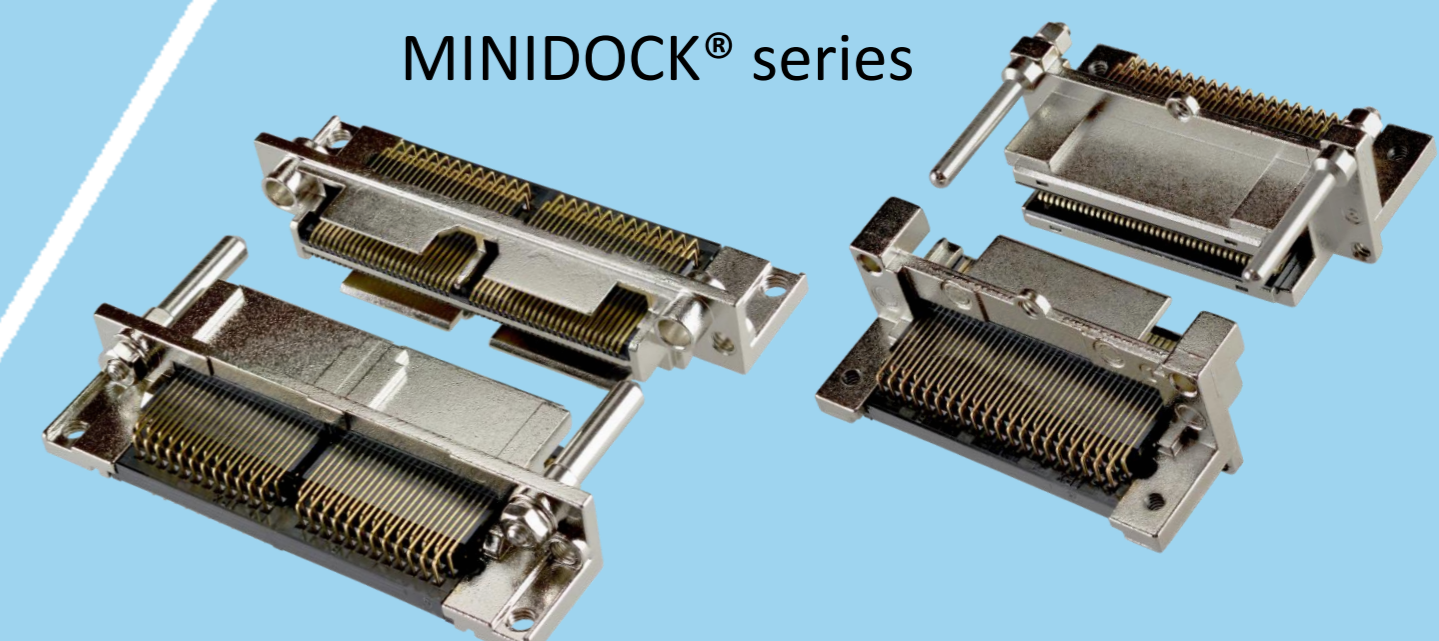
Inquiry



MINIDOCK® series



I/O Connector



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Contact your sales representative or more detailed information.

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