

CABLINE®-CA IIP PLUS

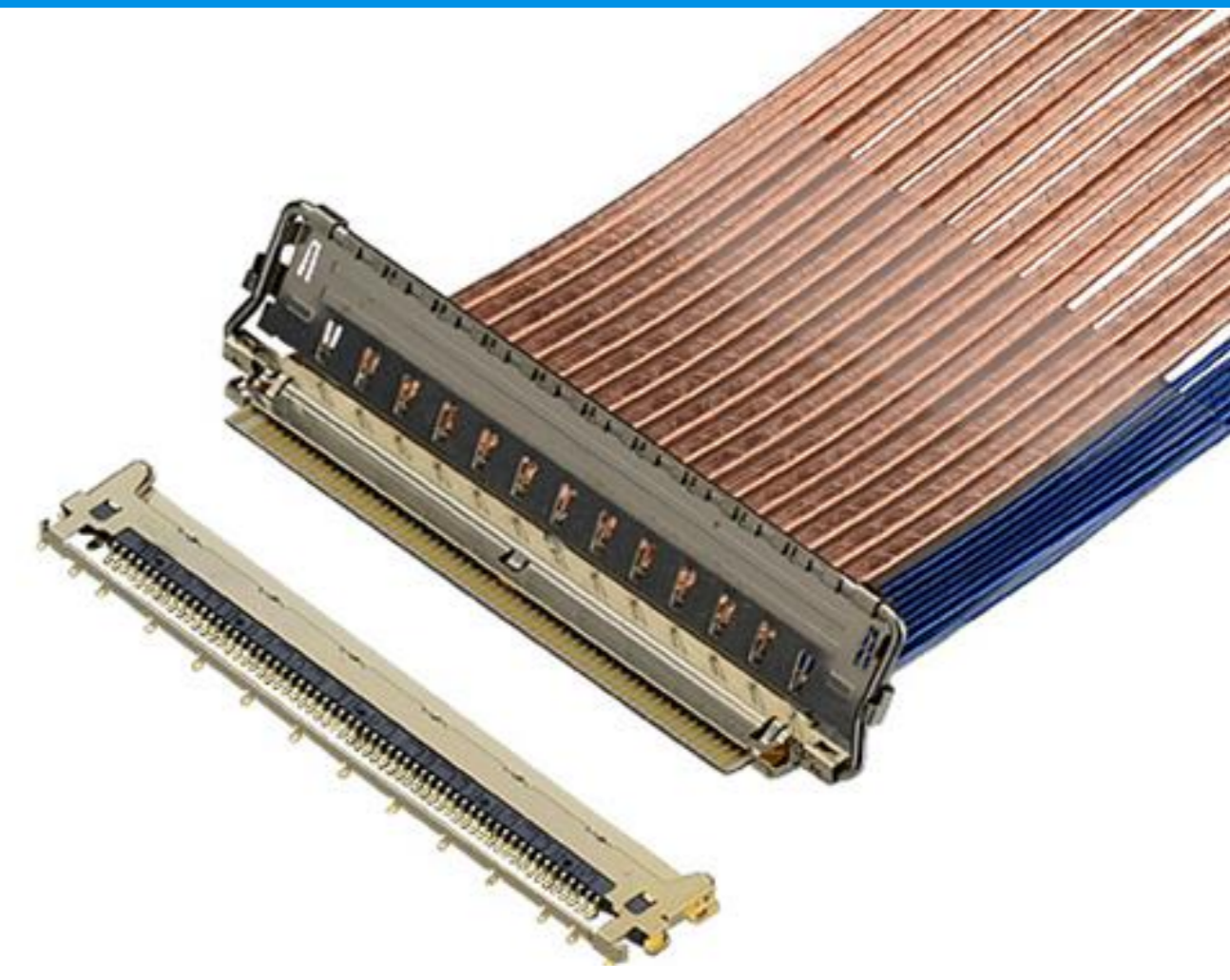
高速伝送対応 (64Gbps/lane PAM4)、0.4mmピッチ、水平嵌合タイプ、TwinaxおよびMicro-coaxial ケーブルアッセンブリ

Product Specifications:

Mating type	Horizontal	
Board Pitch (mm)	1.2 mm (differential pair) 0.4 mm (signal contacts)	
Wiping Length (mm)	0.495	
Mated size (mm)	Height	1.14 mm (1.3 mm max)
	Width	Formula: 6.95 + (0.4*?p)
	Depth	8.20 mm
Pin Counts	Range	Up to 60
	Available	60 (16 differential pair Max)

Applicable Cable Size:

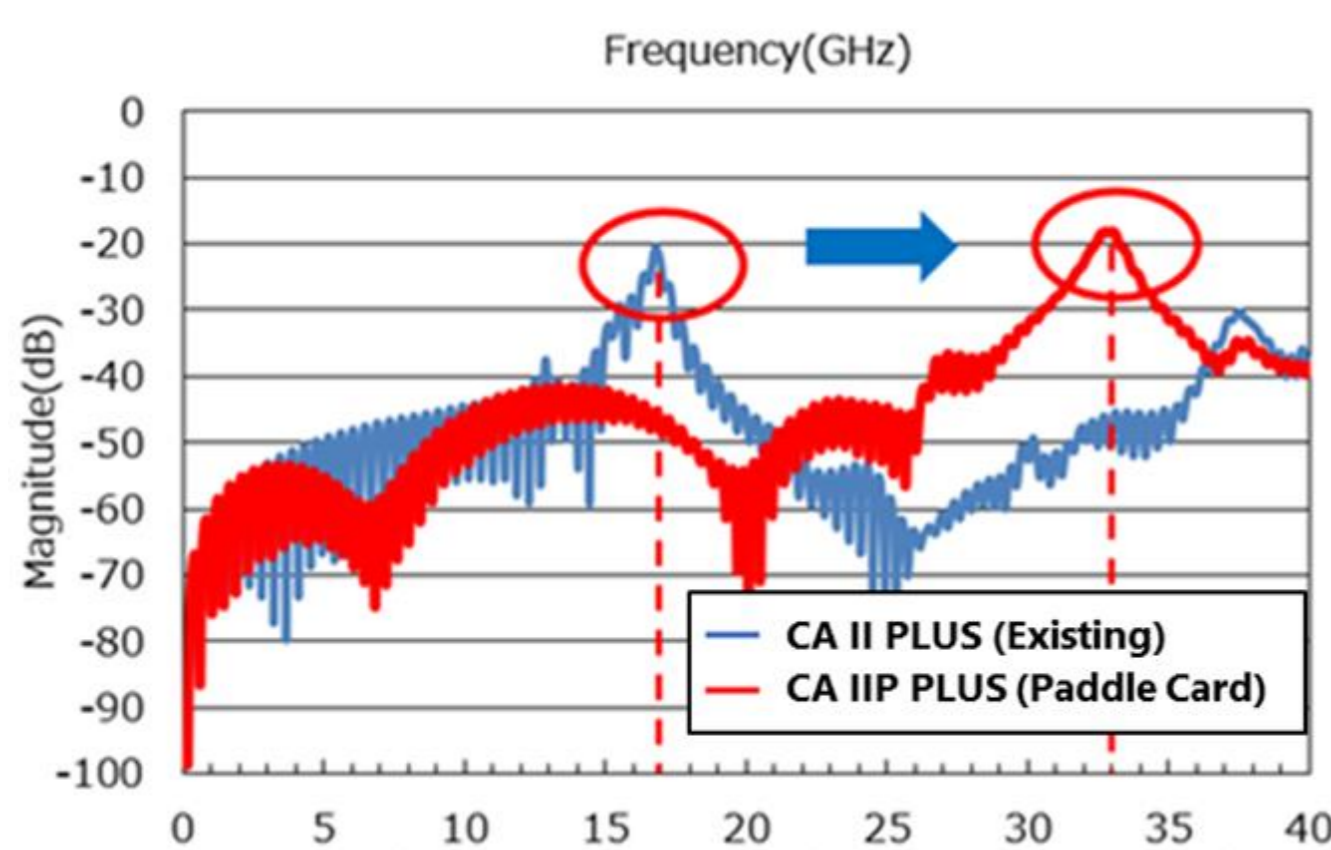
Maximum O.D. (mm)	1.2 mm (Twinax) 0.4 mm (Micro-Coaxial)
Micro-Coaxial for Signal (AWG)	Diff 85 ohm: #38 & #36
Twinax (AWG)	Diff 85 ohm: #34



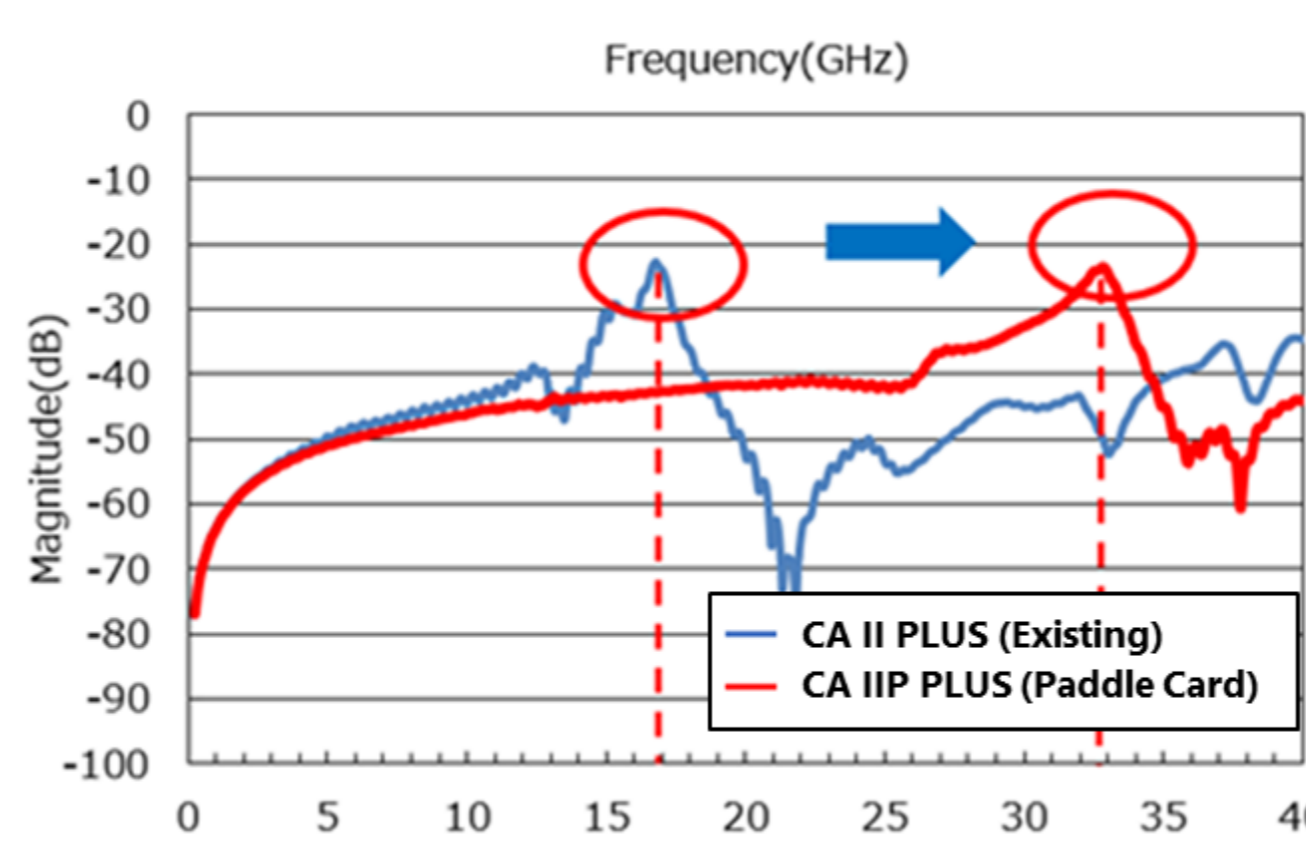
*製品名CABLINE®-CA IIP PLUSは、ハーネス品の製品名称です。Receptacleは、CABLINE®-CA II PLUSのReceptacle(PN 20796-060E-##)です。
*Plugはハーネス品での提供となります。ケーブル長はご希望の長さにてカスタマイズが可能です。
*記載が無い極数の対応についてはお問い合わせ下さい。

▶ パドルカード技術を用いた高速伝送 64Gbps/lane PAM4

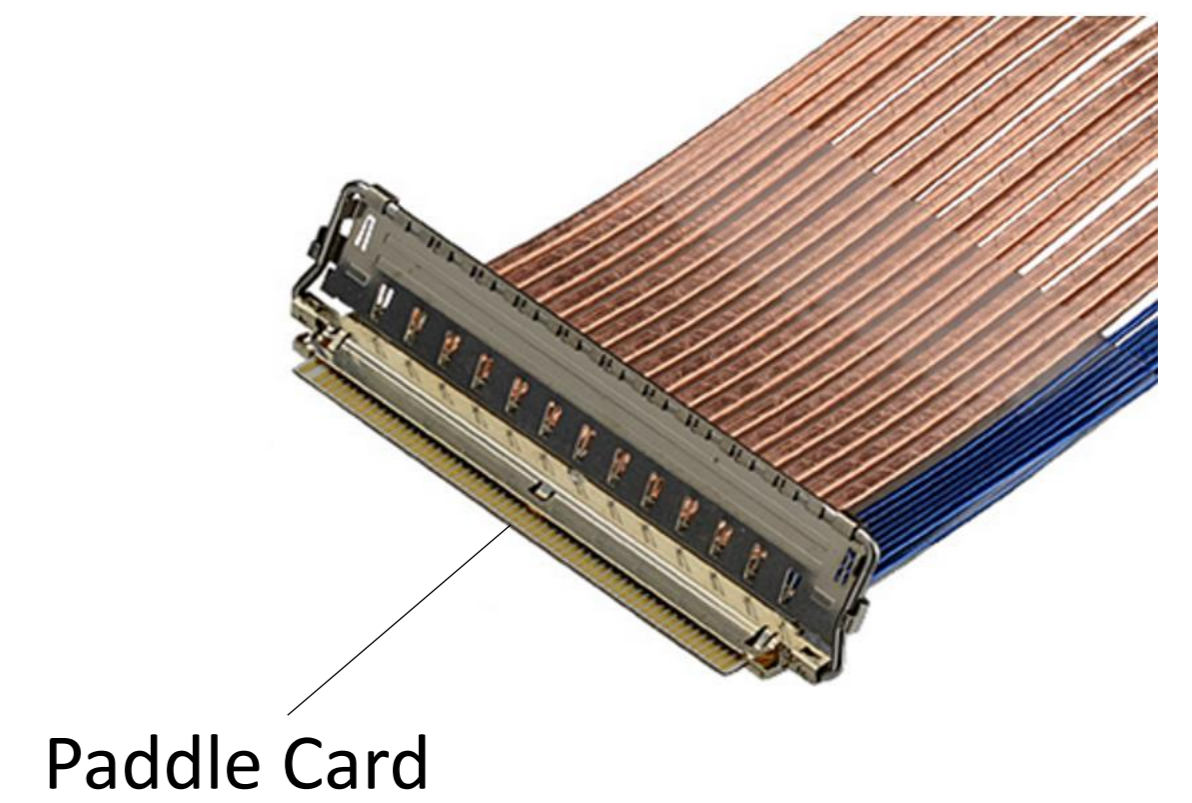
ケーブルプラグ部にパドルカードを採用する事で、信号品質を向上させ既存のCABLINEシリーズから更なる高速伝送を実現



Near End Cross Talk



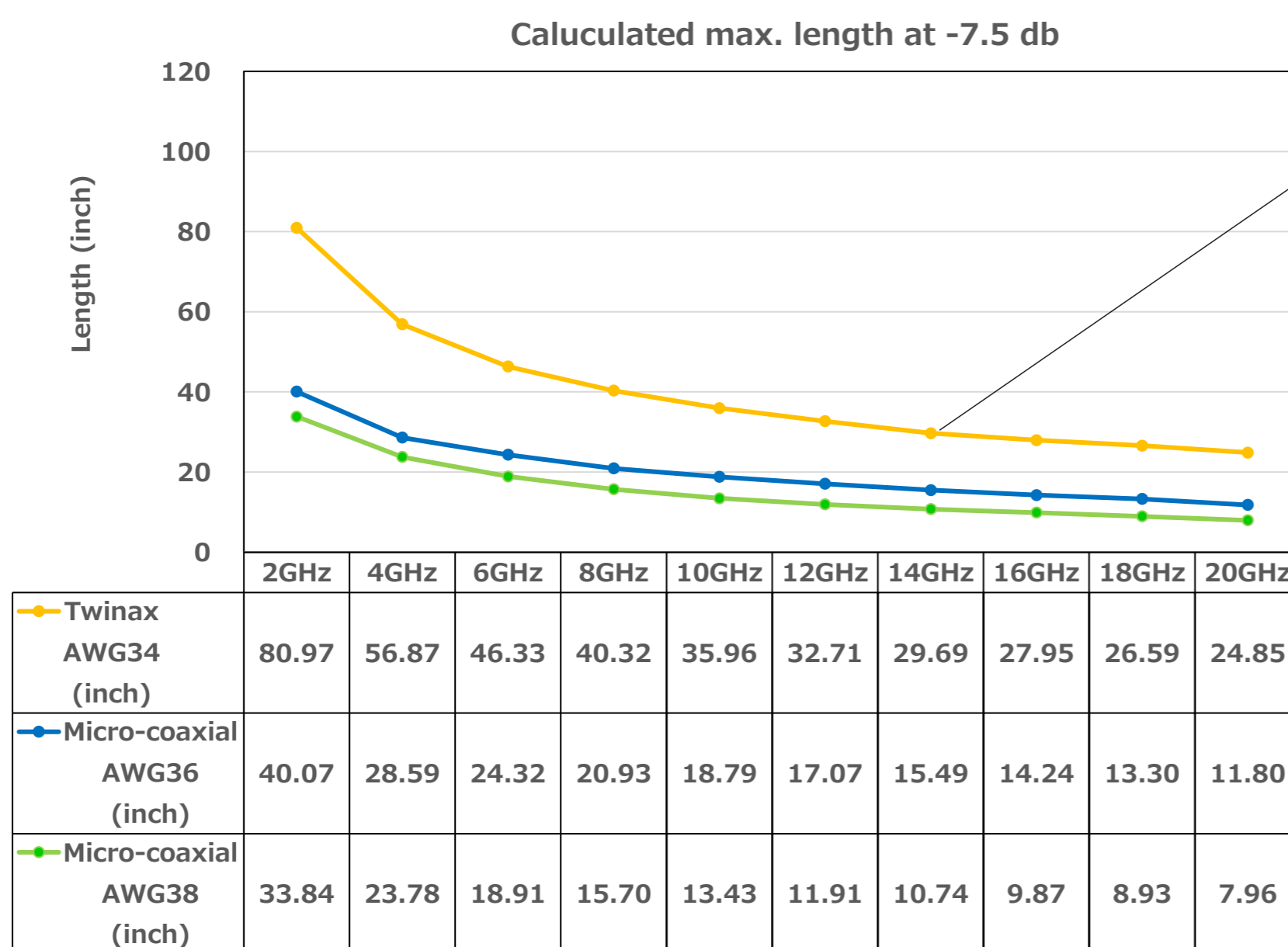
Far End Cross Talk



パドルカードの技術ページ

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

▶ Twinax #34ケーブルで長距離伝送をサポート ケーブル柔軟性があるMicro-coaxial #38,36ケーブルにて配線が容易

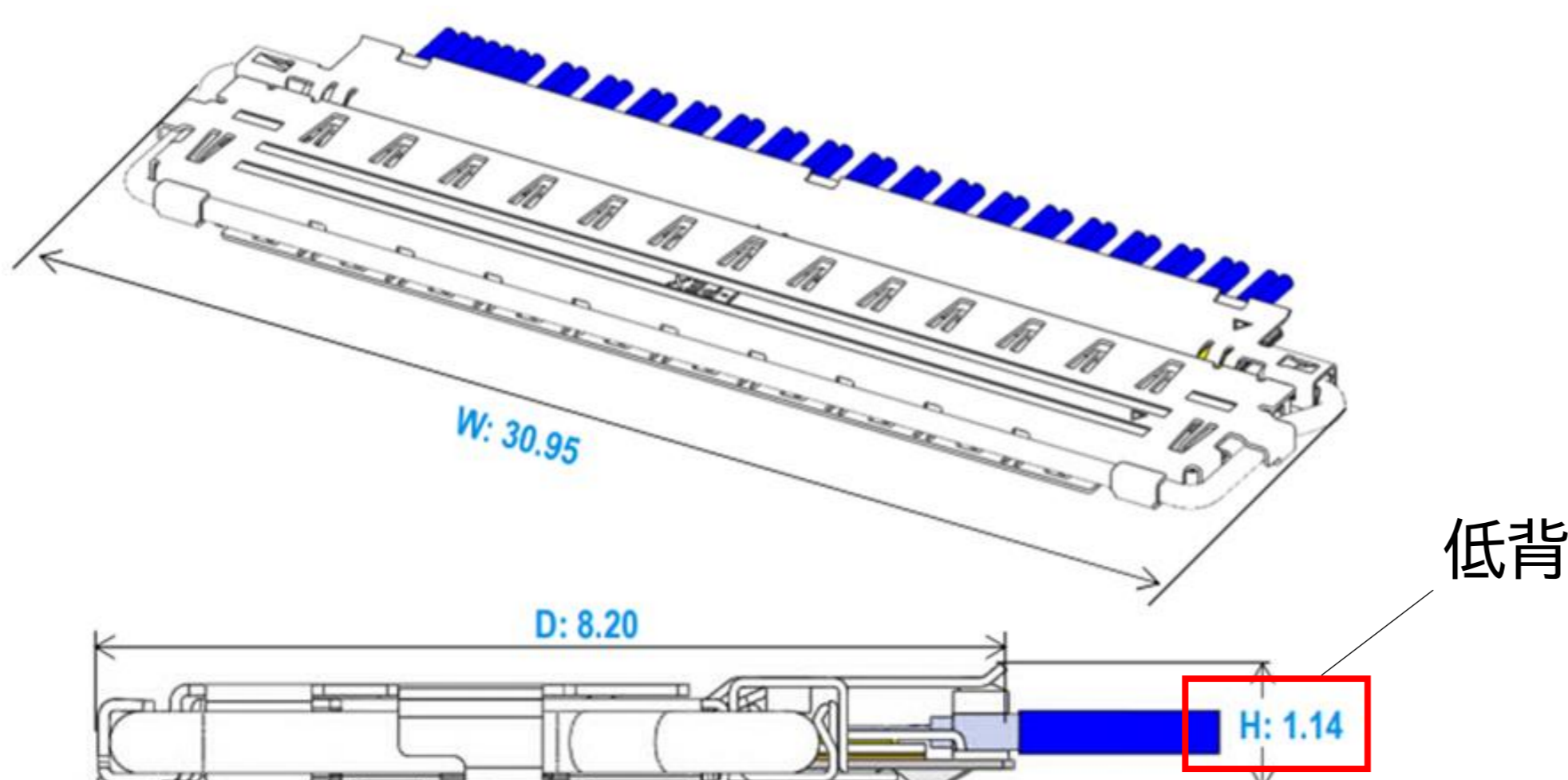


Twinax AWG34

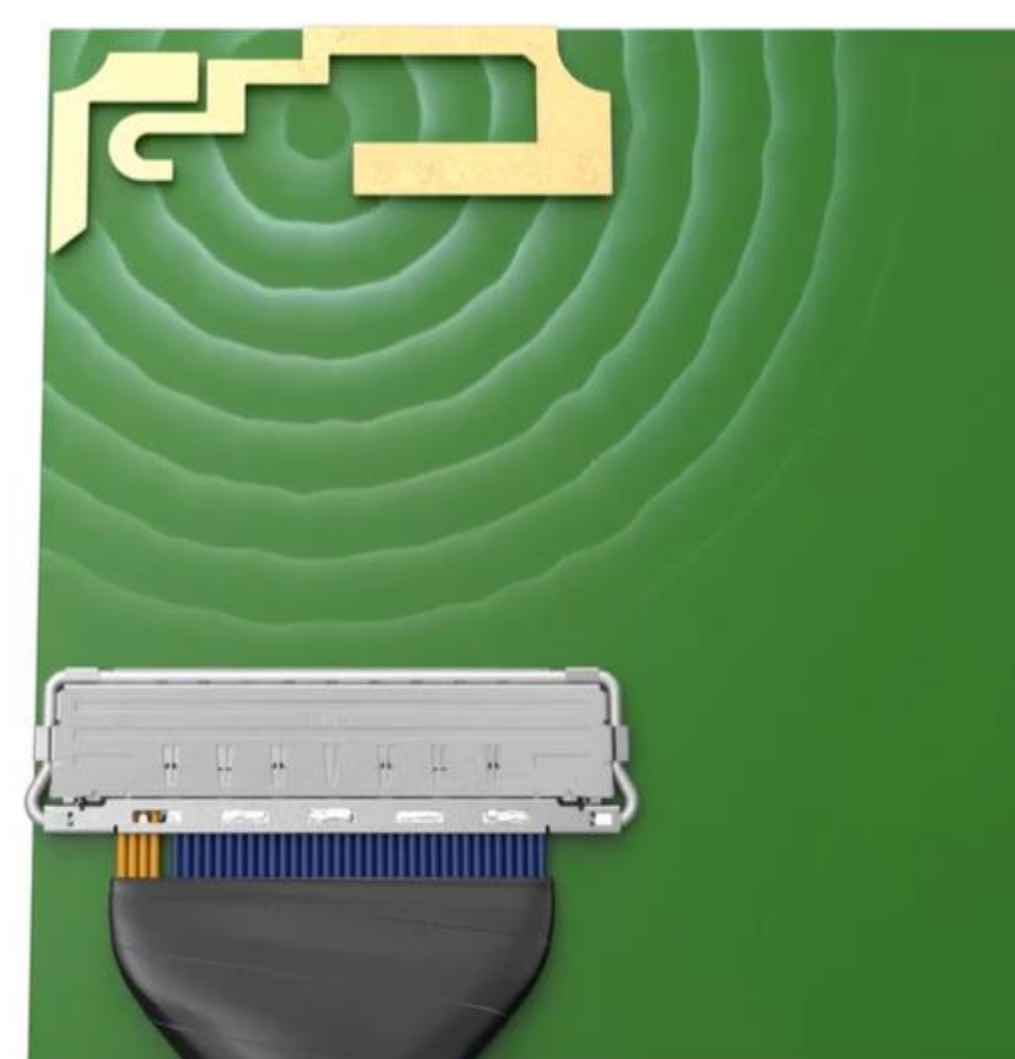
Flexibility of Micro-coaxial cable



▶ 低背H=1.14 mm,360度フルシールドによるEMC対策と多点グラウンド接点のデザイン



EMC
ZenShield® technology



Component Parts Details

Component Parts

Connector parts



PLUG Harness



RECEPTACLE

Plug Harness Assembly

PART No.	GROUP	CABLE LENGTH	DIFFERENTIAL LANE C
82065-600B-01	A	200.00±5.00	TWINAX CABLE, AWG#34 85 OHM
82065-600B-02		500.00±10.00	
82065-600B-03	B	200.00±5.00	
82065-600B-04		500.00±10.00	
82065-400B-01	A	200.00±5.00	MICRO COAXIAL CABLE, AWG#36 42.5 OHM, BLUE
82065-400B-02		500.00±10.00	
82065-400B-03	B	200.00±5.00	
82065-400B-04		500.00±10.00	
82065-100B-01	A	200.00±5.00	MICRO COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
82065-100B-02		500.00±10.00	
82065-100B-03	B	200.00±5.00	
82065-100B-04		500.00±10.00	

- NOTE.
- TO HANDLE THIS CONNECTOR
YOU MUST READ AND FOLLOW THE INSTRUCTION MANUAL BELOW.
I-PEX INSTRUCTION MANUAL No.HIM-24004.
 - ELECTRIC CHARACTERISTICS
WITHSTANDVOLTAGE : AC 250V LEAKAGE CURRENT 2.0mA MAX.
INSULATION RESISTANCE : 50MΩ MIN. DC 100V
 - THE OPERATING TEMPERATURE OF THE HARNESS : 80°C MAX.

FOR GROUP A

PIN ASSIGNMENT		
CONNECTOR 1	CABLE	CONNECTOR 2
60	NO CABLE	60
59	MICRO COAXIAL CABLE, AWG#38 42.5 OHM, BLUE	59
.	.	.
53	MICRO COAXIAL CABLE, AWG#38 42.5 OHM, BLUE	53
52	GROUND	52
51	C	51
50	GROUND	50
49	C	49
48	GROUND	48
47	C	47
46	GROUND	46
.	.	.
9	C	9
8	GROUND	8
7	C	7
6	GROUND	6
5	C	5
4	GROUND	4
3	C	3
2	GROUND	2
1	C	1

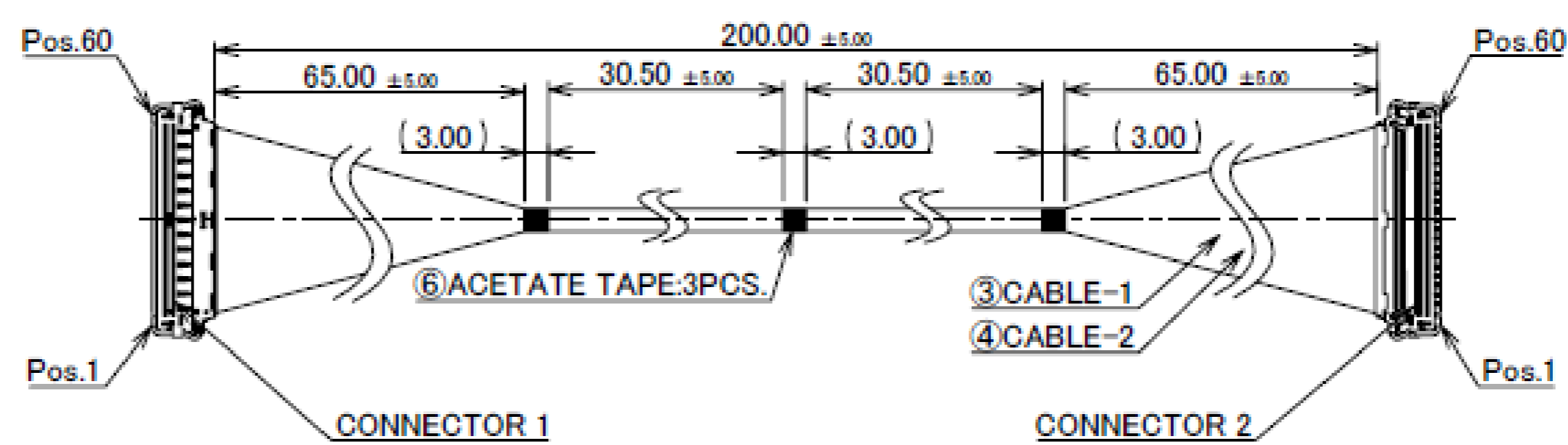
FOR GROUP B

PIN ASSIGNMENT		
CONNECTOR 1	CABLE	CONNECTOR 2
60	C	60
59	NO CABLE	59
58	C	58
57	GROUND	57
56	C	56
55	GROUND	55
54	C	54
53	GROUND	53
52	C	52
51	GROUND	51
.	.	.
17	C	17
16	GROUND	16
15	C	15
14	GROUND	14
13	C	13
12	GROUND	12
11	C	11
10	GROUND	10
9	C	9
8	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE	8
.	.	.
1	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE	1

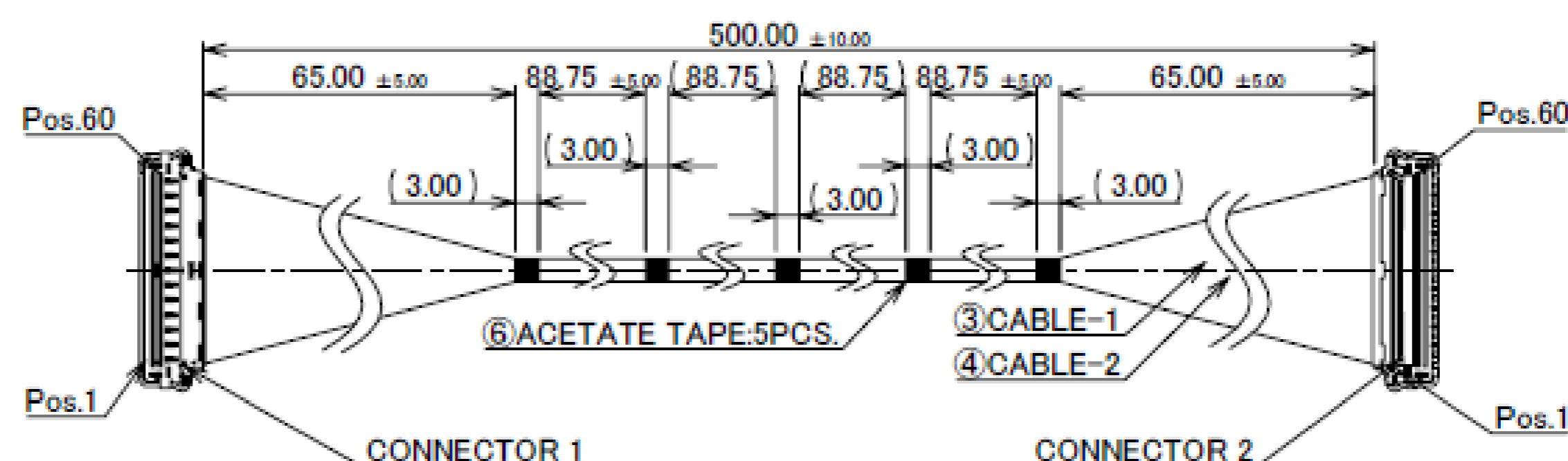
Rev.0

PART No.
82065-*00B-0#

82065-600B-01 82065-600B-03
82065-400B-01 82065-400B-03
82065-100B-01 82065-100B-03



82065-600B-02 82065-600B-04
82065-400B-02 82065-400B-04
82065-100B-02 82065-100B-04

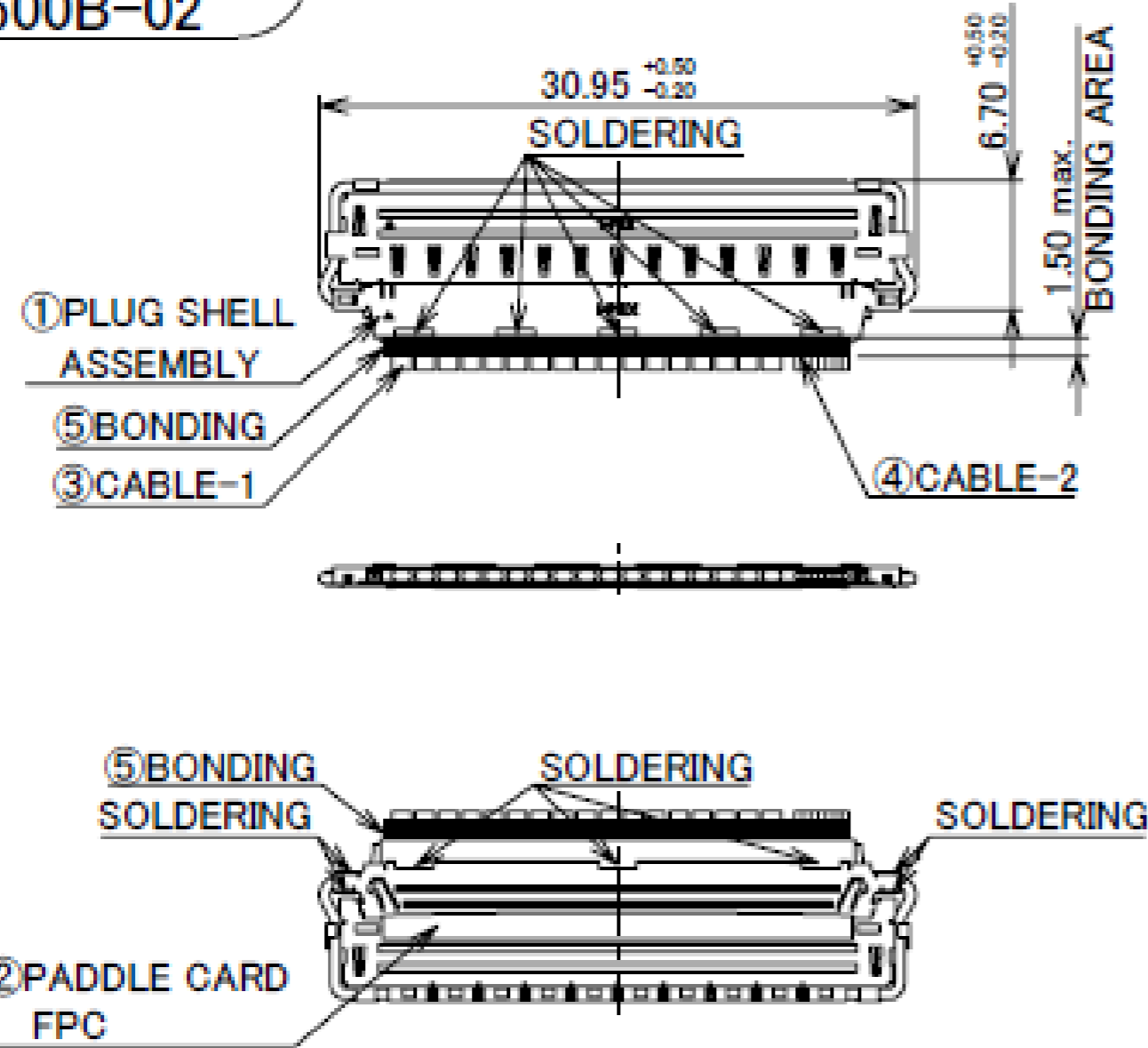


Rev.0

Plug Harness Assembly

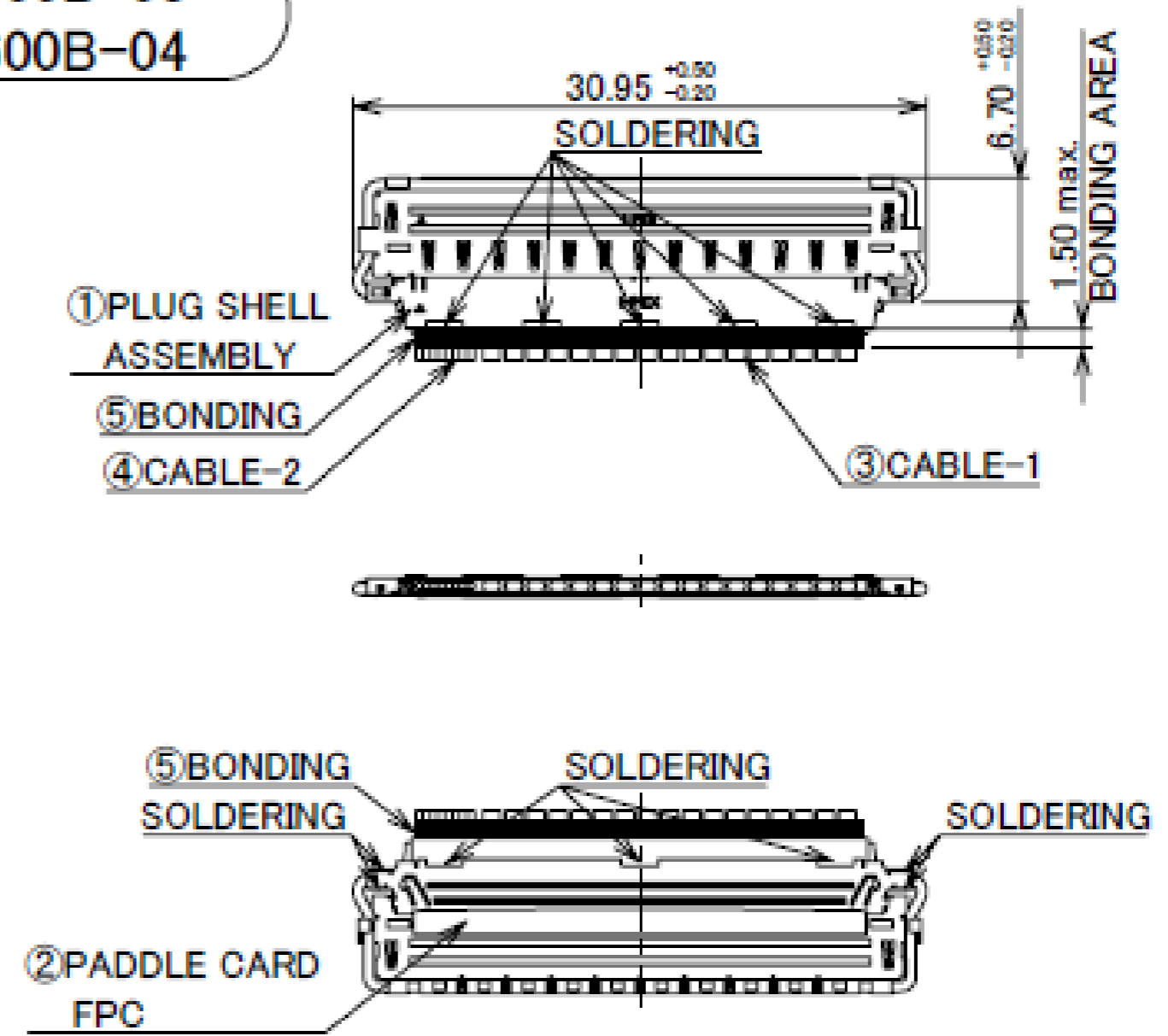
PART No.
82065-600B-0#

82065-600B-01
82065-600B-02



6	ACETATE TAPE	-	3OR5	BLACK
5	BONDING	-	-	UV GLUE
4	CABLE-2	-	7	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
3	CABLE-1	-	17	TWINAX CABLE, AWG#34 85 OHM
2	PADDLE CARD FPC	-	2	CONNECTOR 1 & 2
1	PLUG SHELL ASSEMBLY	21036-060T-01	2	CONNECTOR TO BE MATED : 20790-060E-02
NO.	DESCRIPTION	PARTS NO.	QTY	REMARKS

82065-600B-03
82065-600B-04

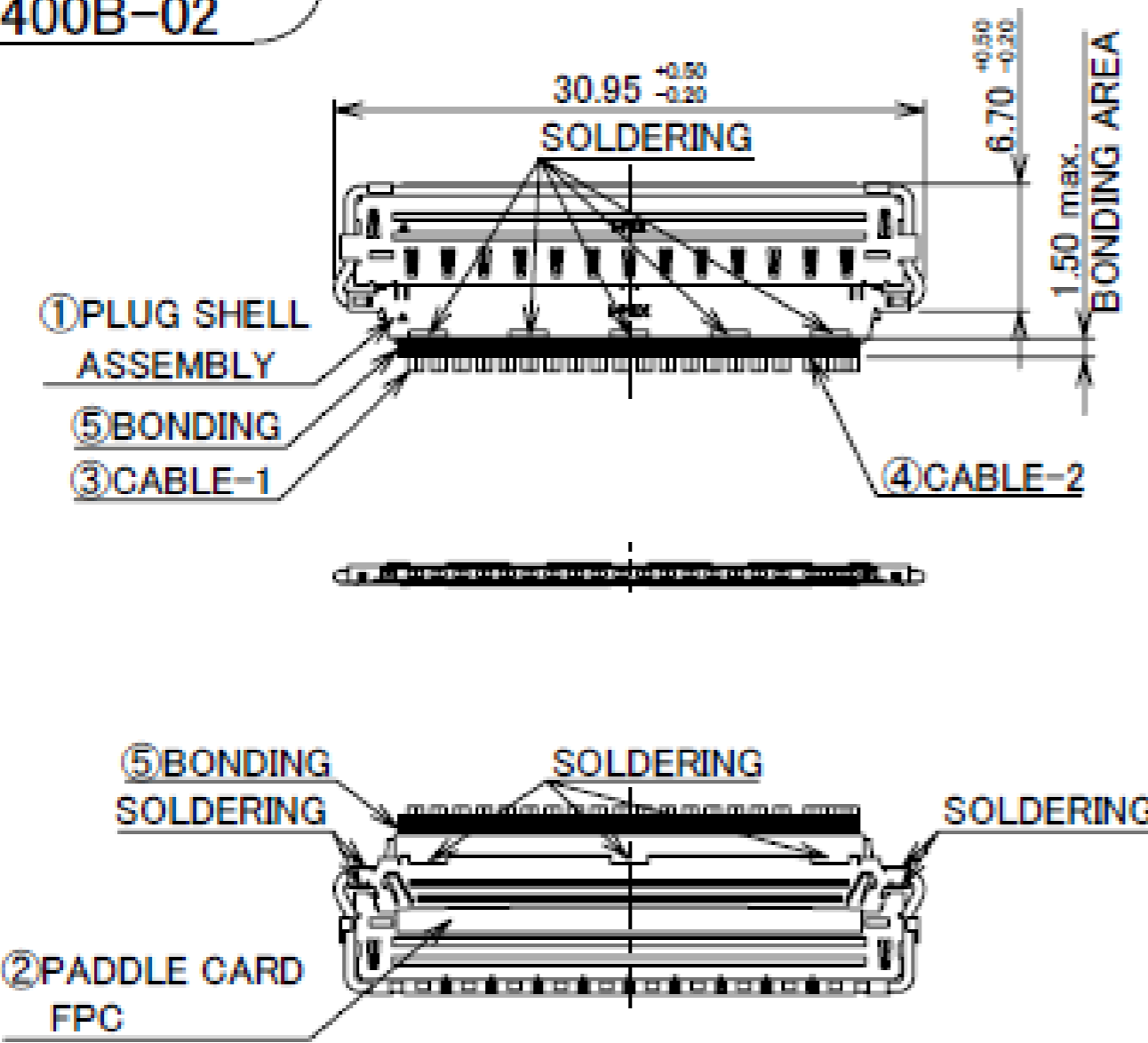


6	ACETATE TAPE	-	3OR5	BLACK
5	BONDING	-	-	UV GLUE
4	CABLE-2	-	8	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
3	CABLE-1	-	17	TWINAX CABLE, AWG#34 85 OHM
2	PADDLE CARD FPC	-	2	CONNECTOR 1 & 2
1	PLUG SHELL ASSEMBLY	21036-060T-01	2	CONNECTOR TO BE MATED : 20790-060E-02
NO.	DESCRIPTION	PARTS NO.	QTY	REMARKS

Rev.0

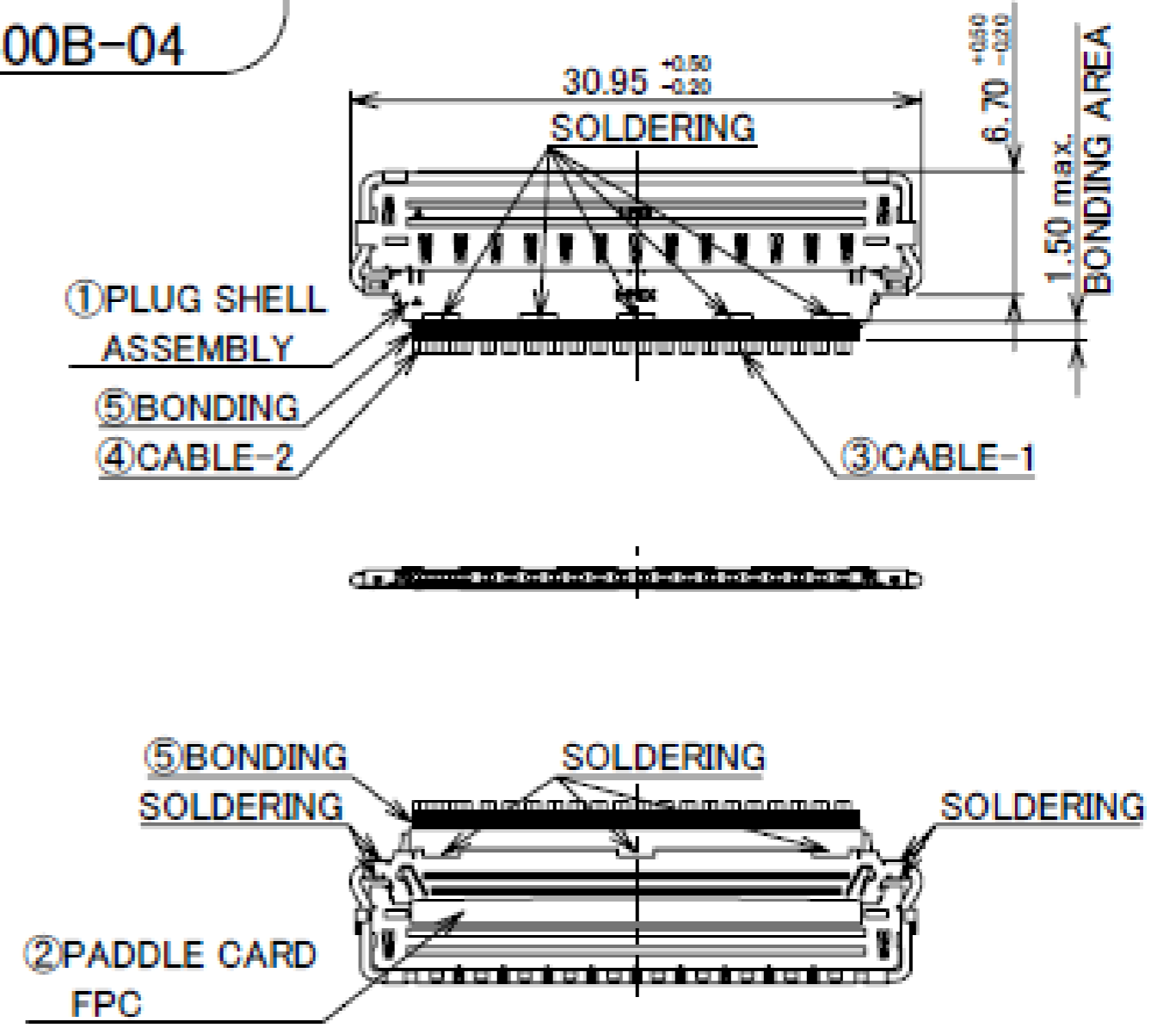
PART No.
82065-400B-0#

82065-400B-01
82065-400B-02



6	ACETATE TAPE	-	3OR5	BLACK
5	BONDING	-	-	UV GLUE
4	CABLE-2	-	7	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
3	CABLE-1	-	34	MICRO-COAXIAL CABLE, AWG#36 42.5 OHM, BLUE
2	PADDLE CARD FPC	-	2	CONNECTOR 1 & 2
1	PLUG SHELL ASSEMBLY	21036-060T-01	2	CONNECTOR TO BE MATED : 20790-060E-02
NO.	DESCRIPTION	PARTS NO.	QTY	REMARKS

82065-400B-03
82065-400B-04



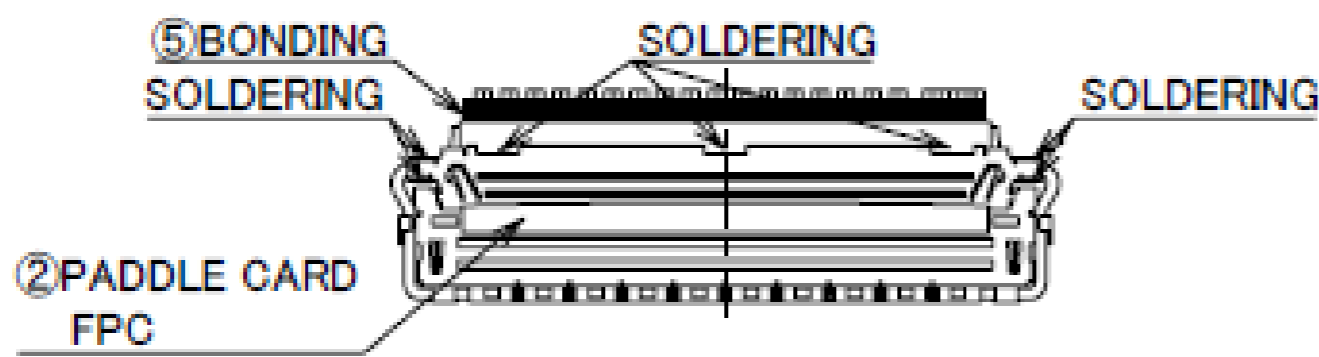
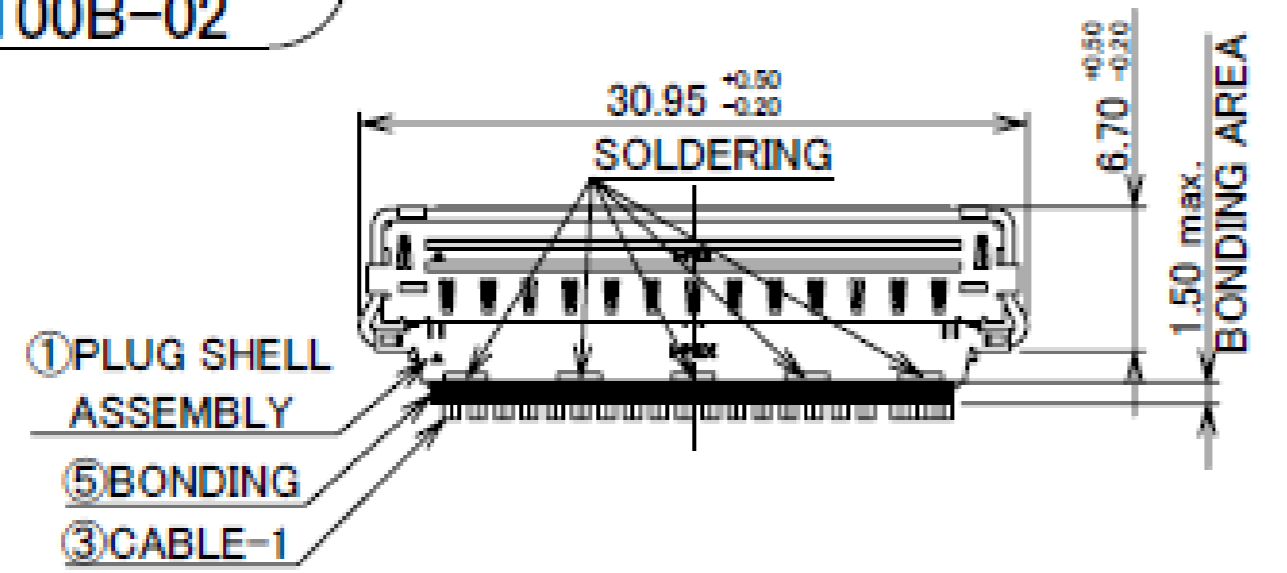
6	ACETATE TAPE	-	3OR5	BLACK
5	BONDING	-	-	UV GLUE
4	CABLE-2	-	8	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
3	CABLE-1	-	34	MICRO-COAXIAL CABLE, AWG#36 42.5 OHM, BLUE
2	PADDLE CARD FPC	-	2	CONNECTOR 1 & 2
1	PLUG SHELL ASSEMBLY	21036-060T-01	2	CONNECTOR TO BE MATED : 20790-060E-02
NO.	DESCRIPTION	PARTS NO.	QTY	REMARKS

Rev.0

Plug Harness Assembly

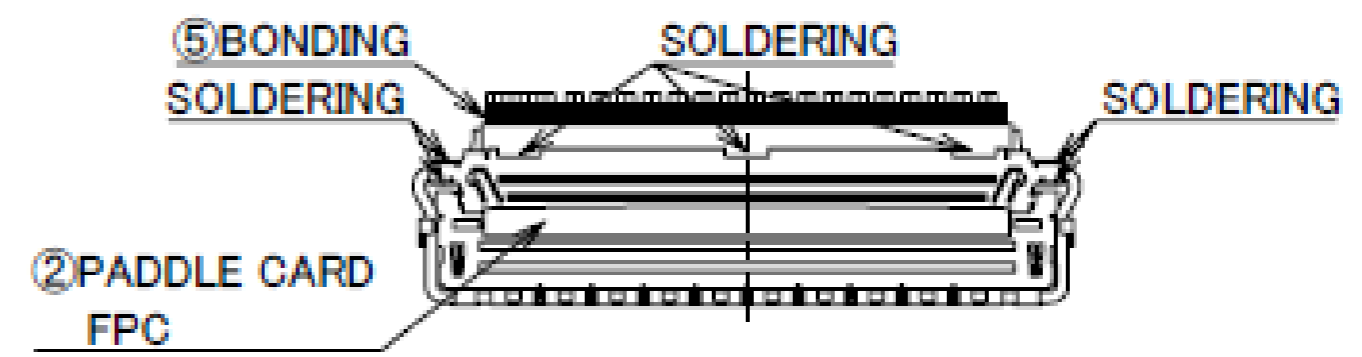
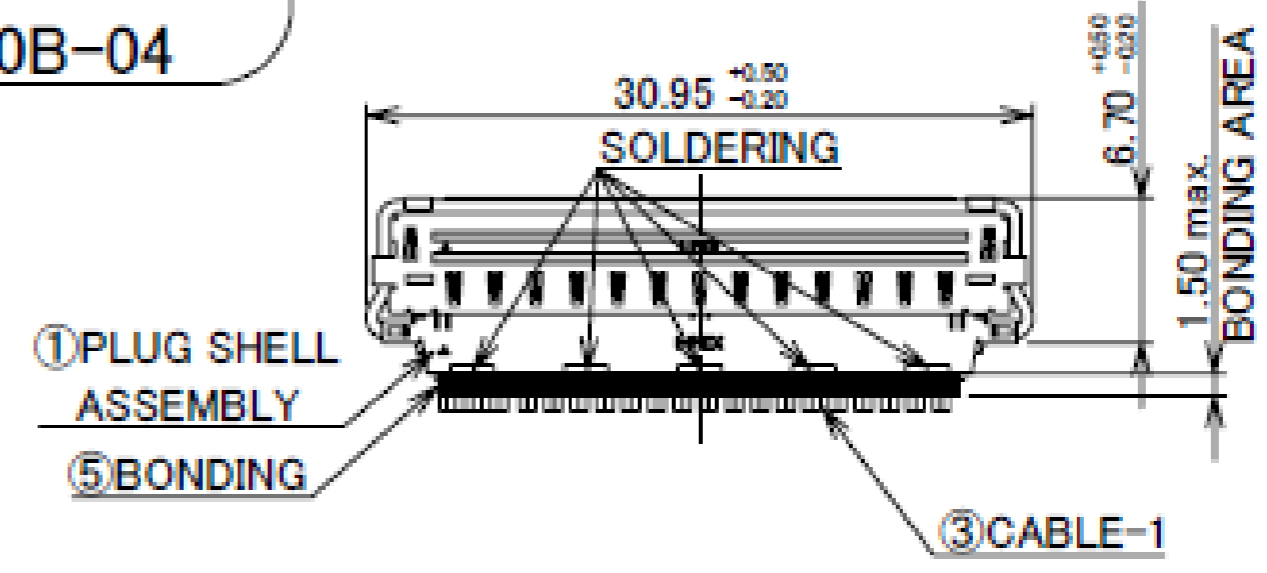
PART No.	82065-100B-0#
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82065-100B-01
82065-100B-02



6	ACETATE TAPE	-	30R5	BLACK
5	BONDING	-	-	UV GLUE
3	CABLE-1	-	41	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
2	PADDLE CARD FPC	-	2	CONNECTOR 1 & 2
1	PLUG SHELL ASSEMBLY	21036-060T-01	2	CONNECTOR TO BE MATED : 20790-060E-02
NO.	DESCRIPTION	PARTS NO.	QTY	REMARKS

82065-100B-03
82065-100B-04



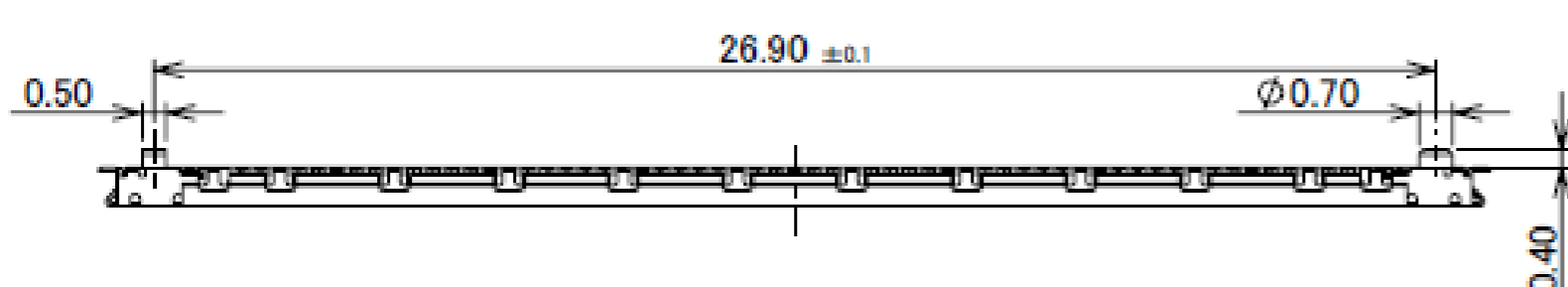
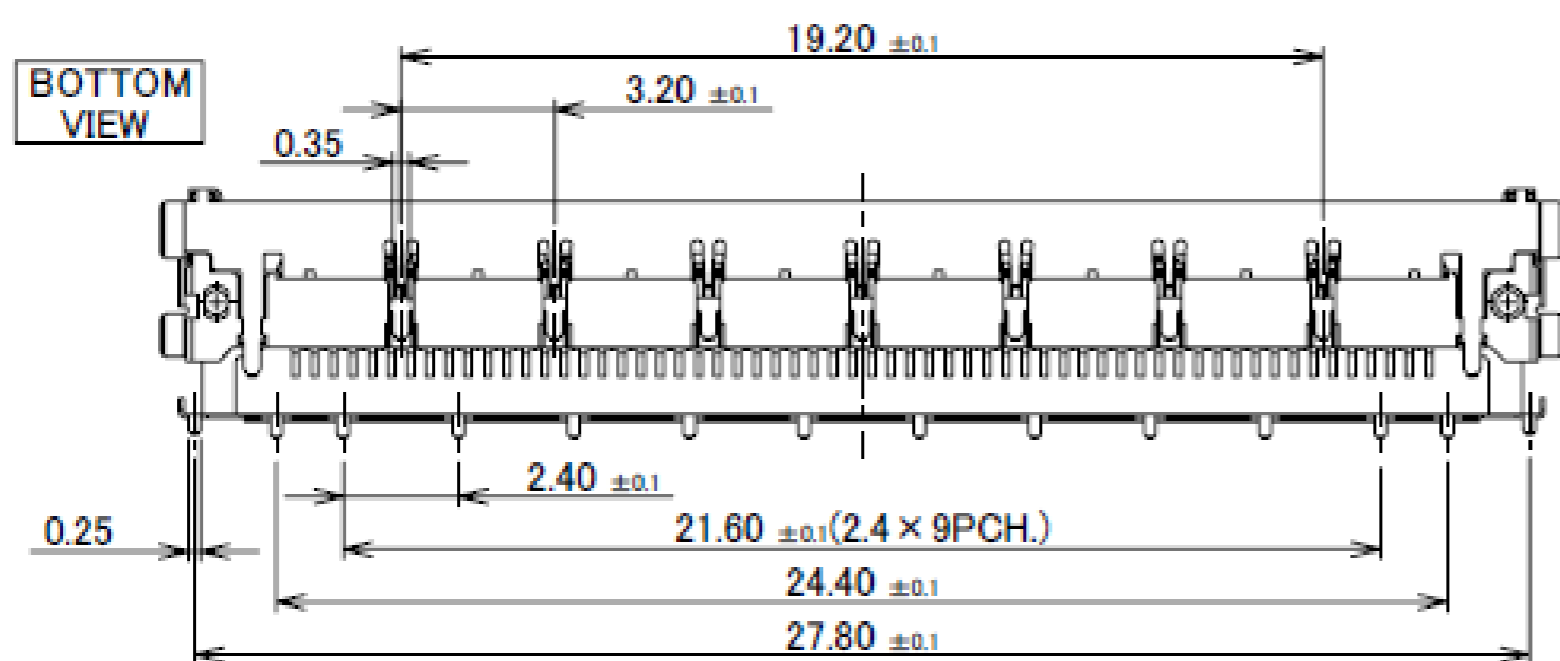
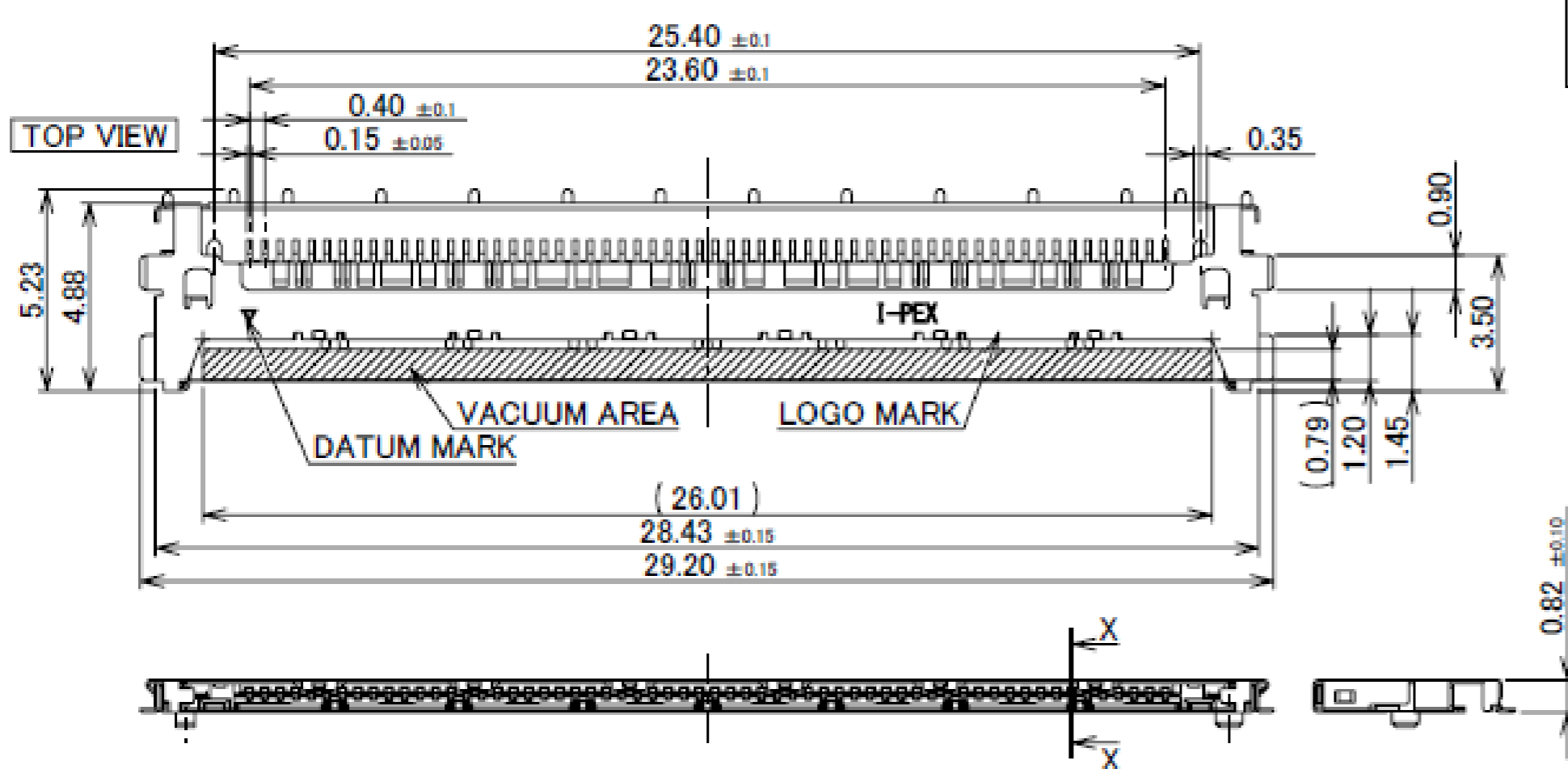
6	ACETATE TAPE	-	30R5	BLACK
5	BONDING	-	-	UV GLUE
3	CABLE-1	-	42	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
2	PADDLE CARD FPC	-	2	CONNECTOR 1 & 2
1	PLUG SHELL ASSEMBLY	21036-060T-01	2	CONNECTOR TO BE MATED : 20790-060E-02
NO.	DESCRIPTION	PARTS NO.	QTY	REMARKS

Rev.0

Receptacle Assembly

Recommended P/N	20790-0**E-02
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PART NO.	Pos.
20790-060E-##	60



P/N : 20790-0**E-##
1 : WITH BOSS
2 : WITHOUT BOSS
SEE TABLE 1
Pos.

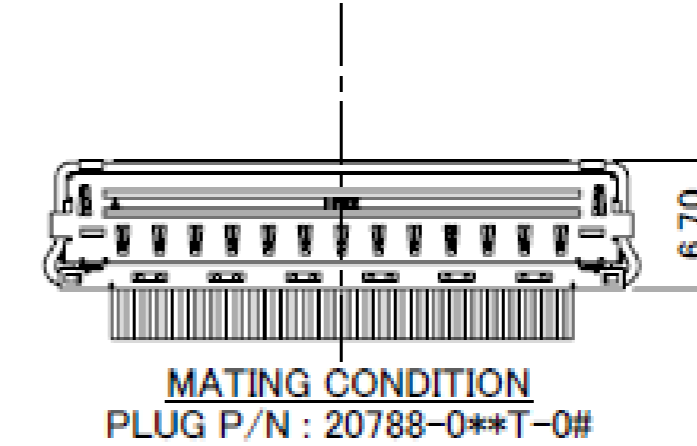
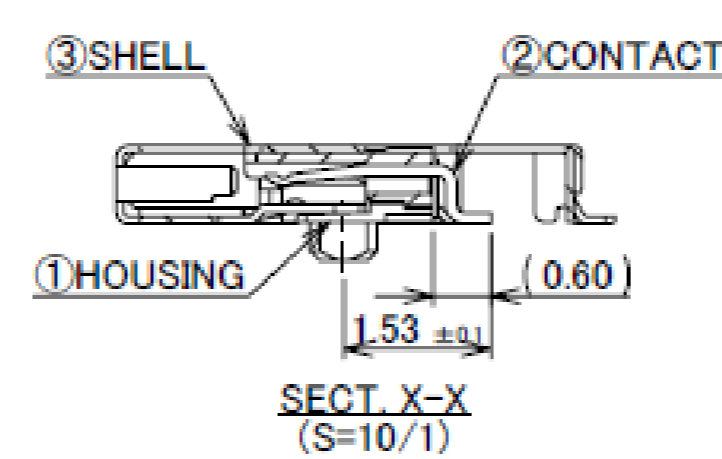
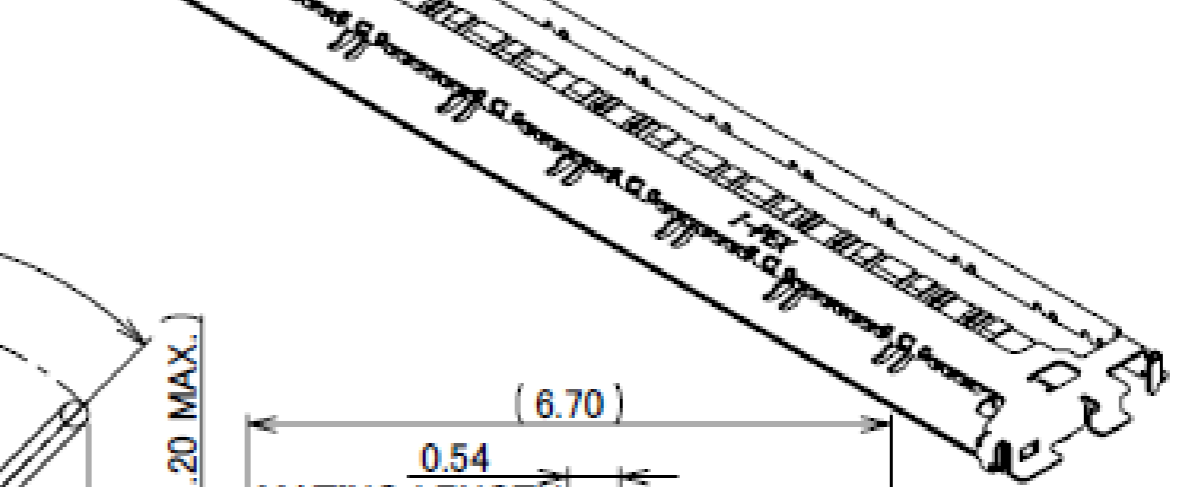
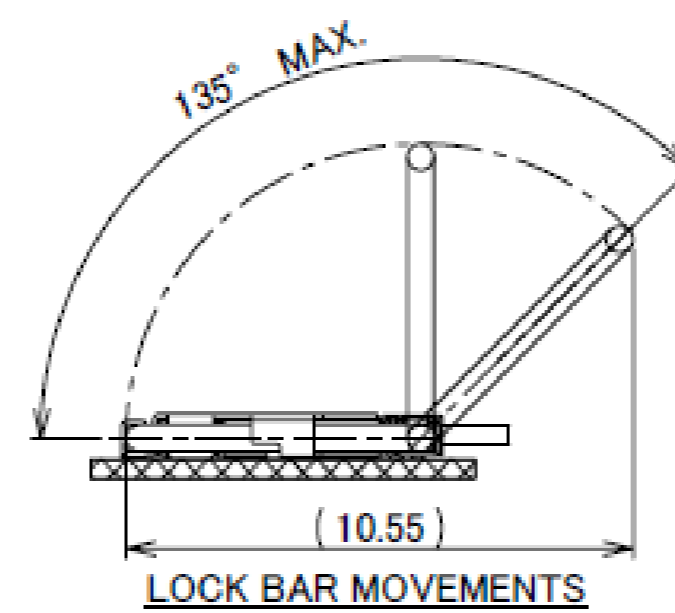


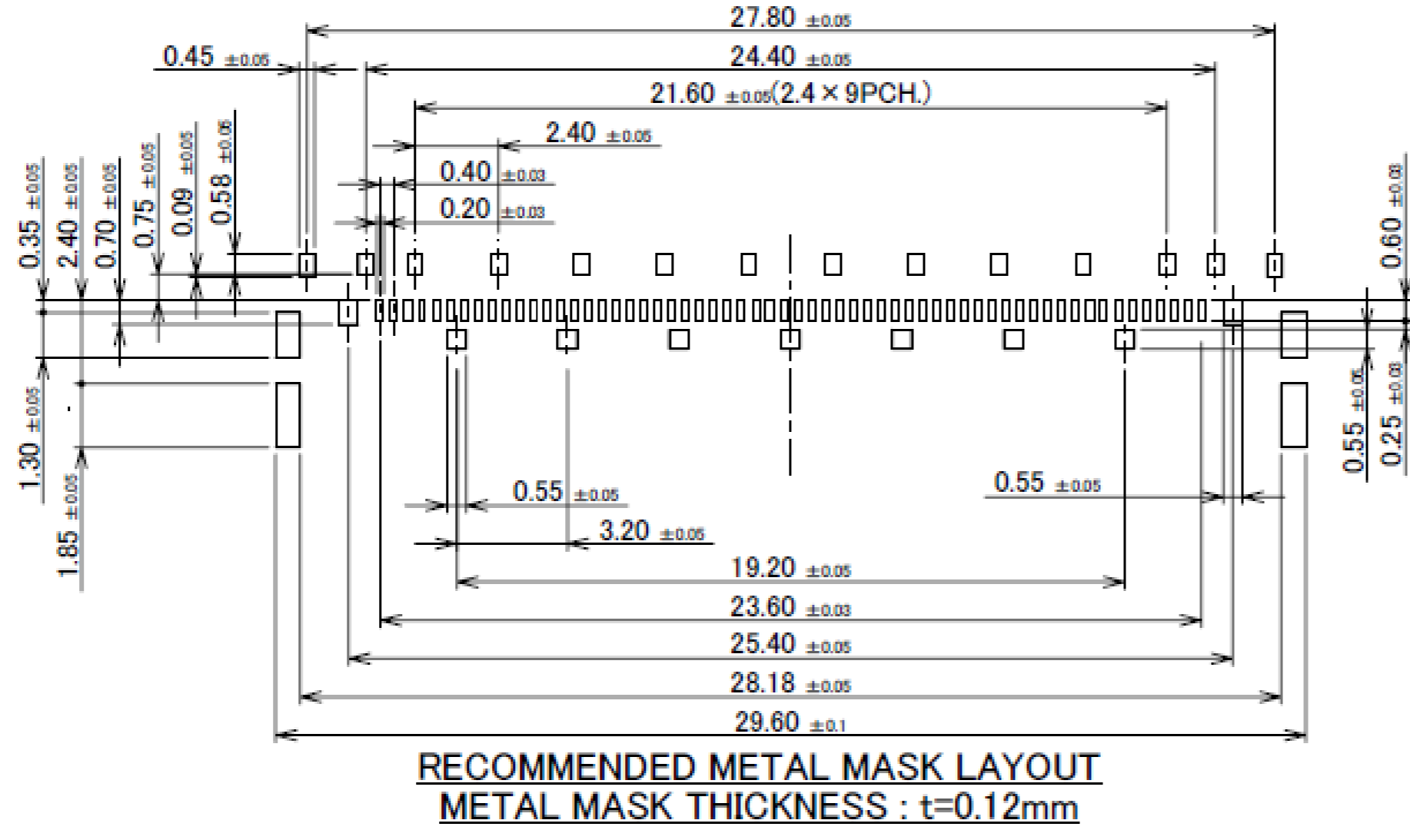
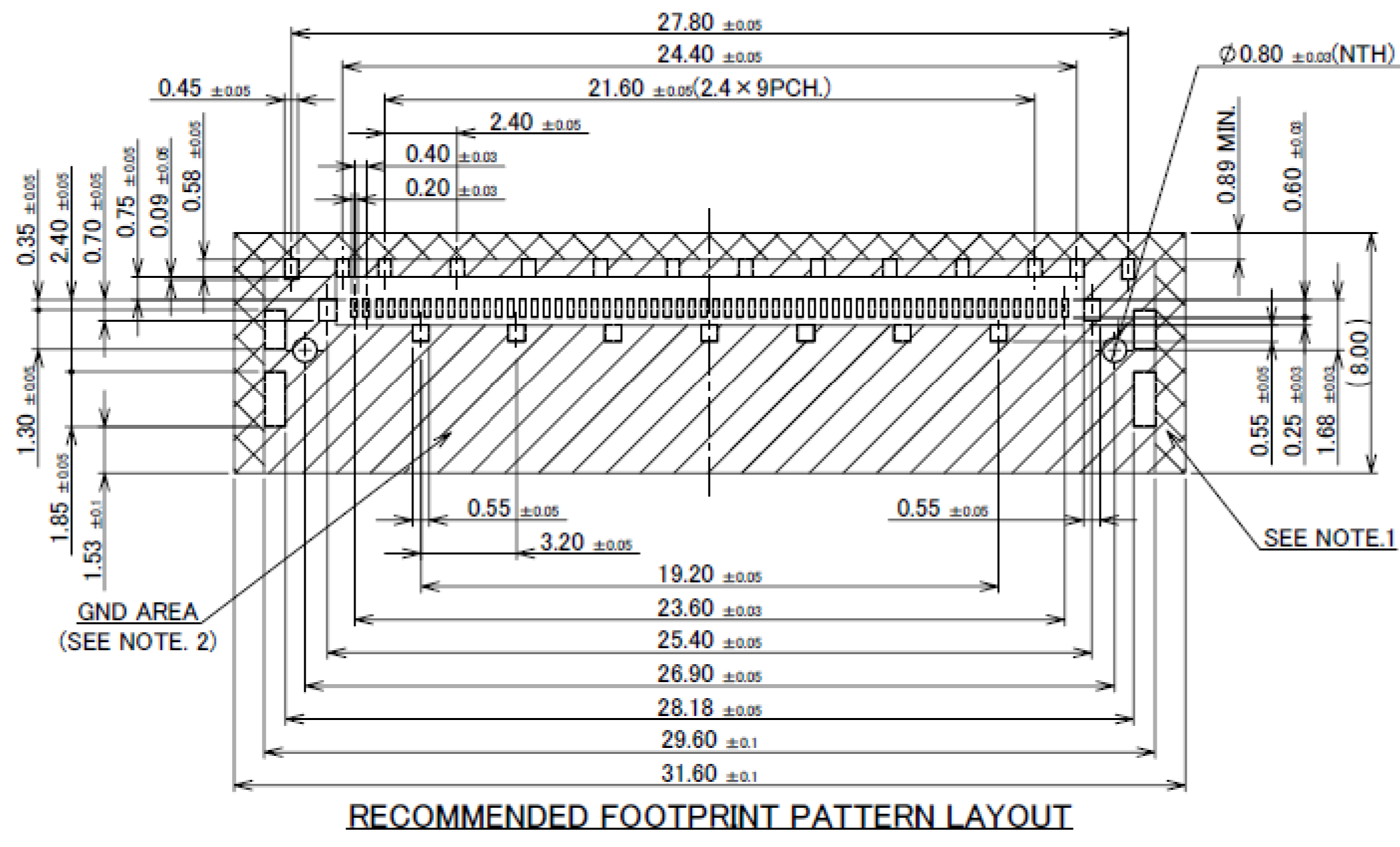
TABLE 1

PART NO.	CONTACT FINISH
20790-0**E-0#	CONTACT & SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
20790-0**E-1#	CONTACT AREA : Au 0.38 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.

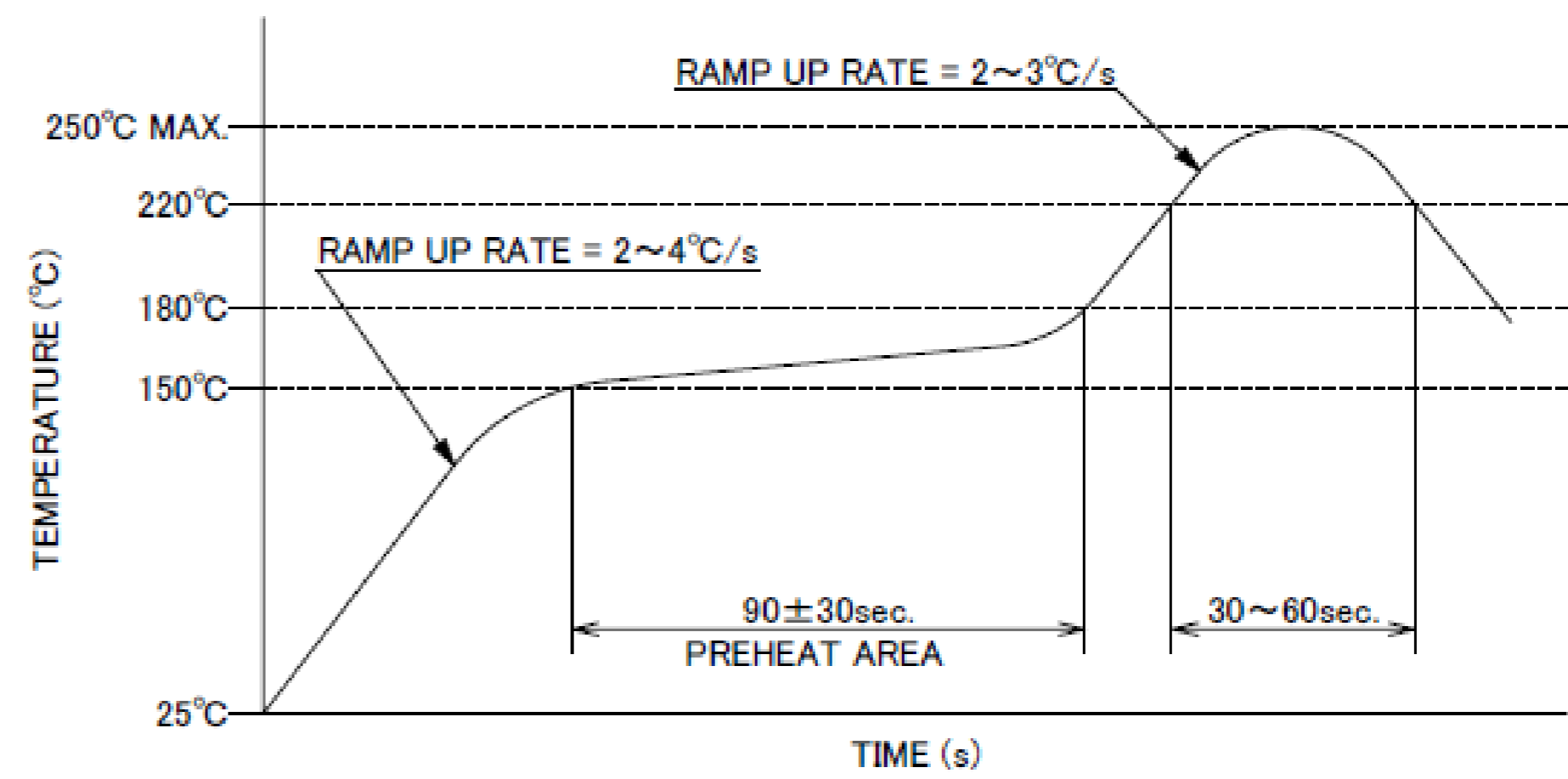
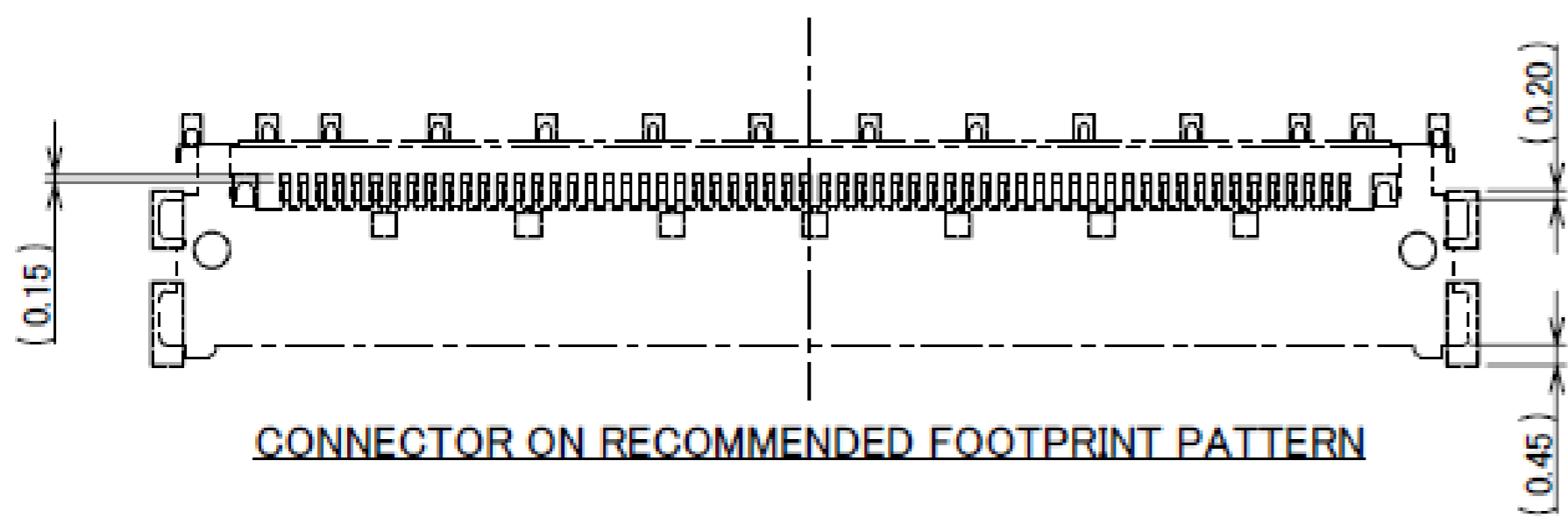
3	SHELL	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	SEE TABLE 1
1	HOUSING	LCP	UL94V-0 .BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.14

Receptacle Assembly



- NOTES:
1. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
2. SOLDER RESIST MUST BE APPLIED TO THIS AREA.



ITEMS	SPECIFICATIONS
APPLICABLE CABLE	Micro Coaxial: AWG#38 42.5 ohm (Diff 85ohm) Micro Coaxial: AWG#38 42.5 ohm (Diff 85ohm) TWINAX AWG#34 85 ohm
RATING AMPERAGE (FOR CONTACT)	0.4A AC/DC (Micro Coaxial: AWG#38 42.5 ohm (Diff 85ohm)) 0.4A AC/DC (Micro Coaxial: AWG#36 42.5 ohm (Diff 85ohm)) 0.6A AC/DC (TWINAX AWG#34 85ohm) ※TESTING BY REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION
RATING VOLTAGE	100V AC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K (-40°C~85°C)
OPERATING HUMIDITY	85% MAX. (NON-CONDENDING)
CONTACT RESISTANCE	INITIAL: 380mohm MAX. (Micro Coaxial: AWG#38) 275mohm MAX. (Micro Coaxial: AWG#36) 180mohm MAX. (TWINAX AWG#34 85ohm) 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)	60P: 40.0 N MAX.
UNMATING FORCE (INITIAL / AFTER 30 CYCLES)	60P: 2.0N MIN.
CABLE RETENTION FORCE	60P: 29.40 N MIN.
PRODUCT SPECIFICATION	PRS-2908
TEST REPORT	TR-24055
INSTRUCTION MANUAL	HIM-24004


Rev.0

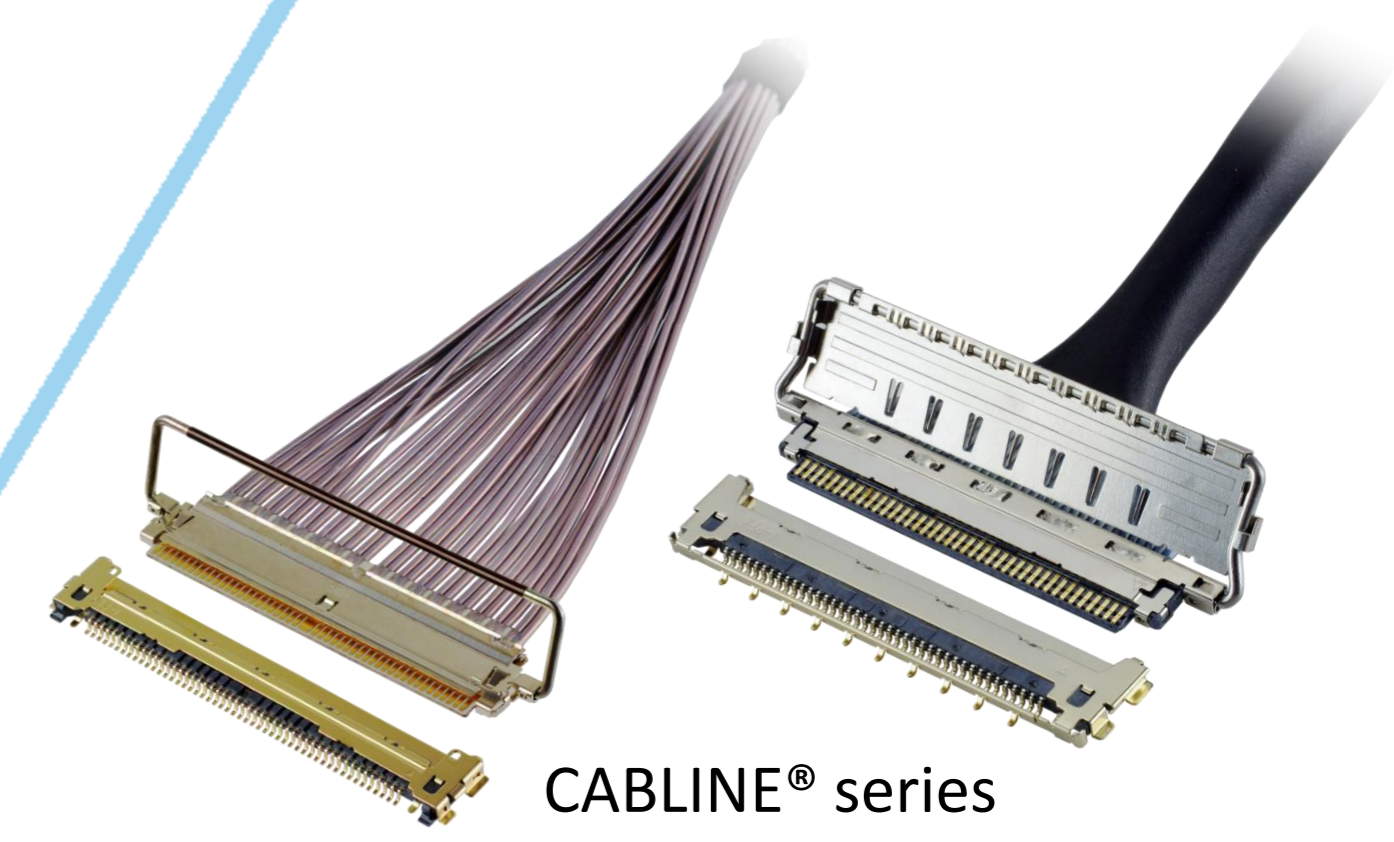
Custom Connectors Available

 RF Connector

MHF® series



 CABLINE® series
Micro-coaxial/Twinax/
Discrete Wire Connector



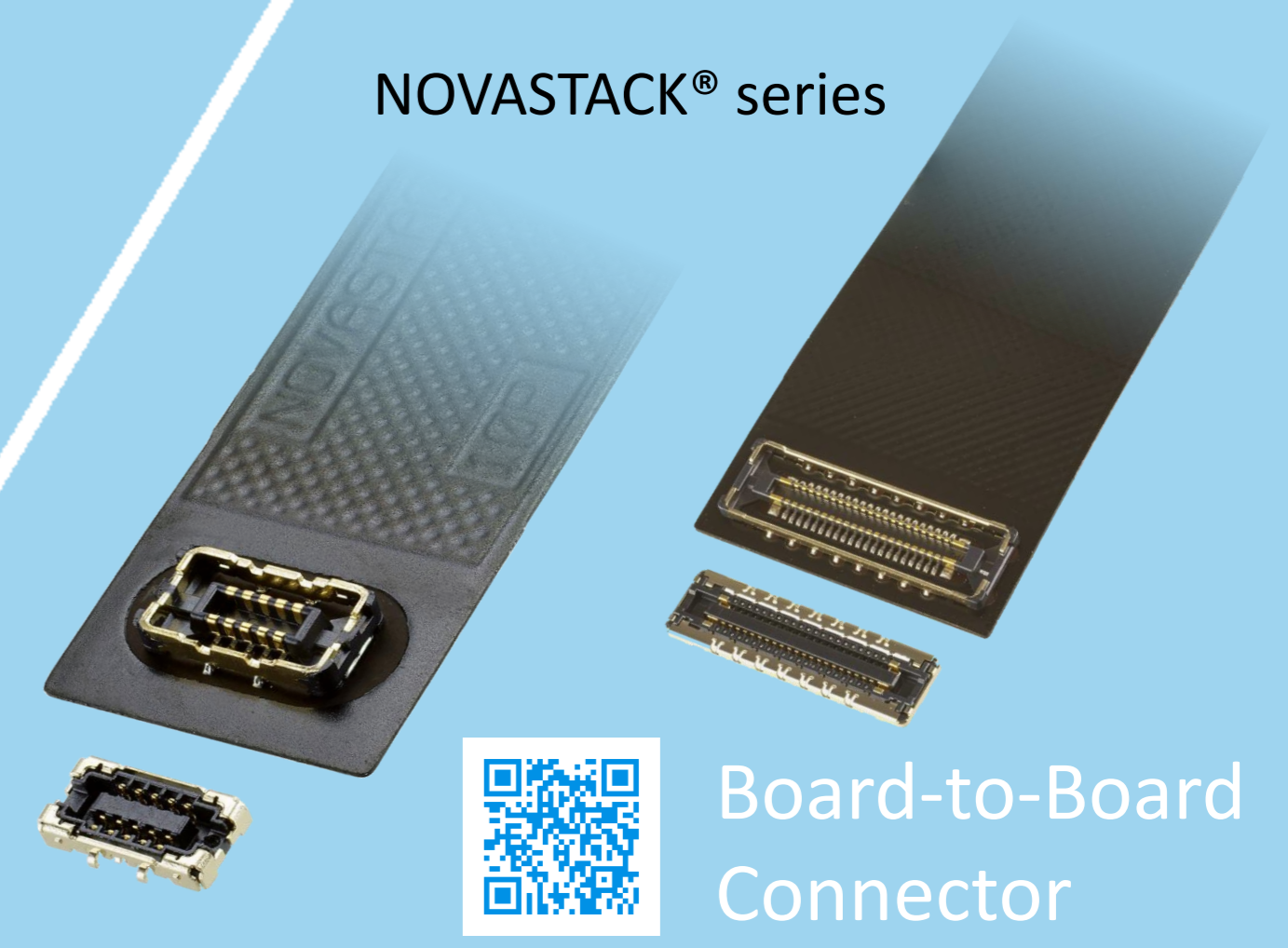
 Optical Module

LIGHTPASS® series



NOVASTACK® series

 Board-to-Board Connector



 Power Connector/
Terminal

AP series

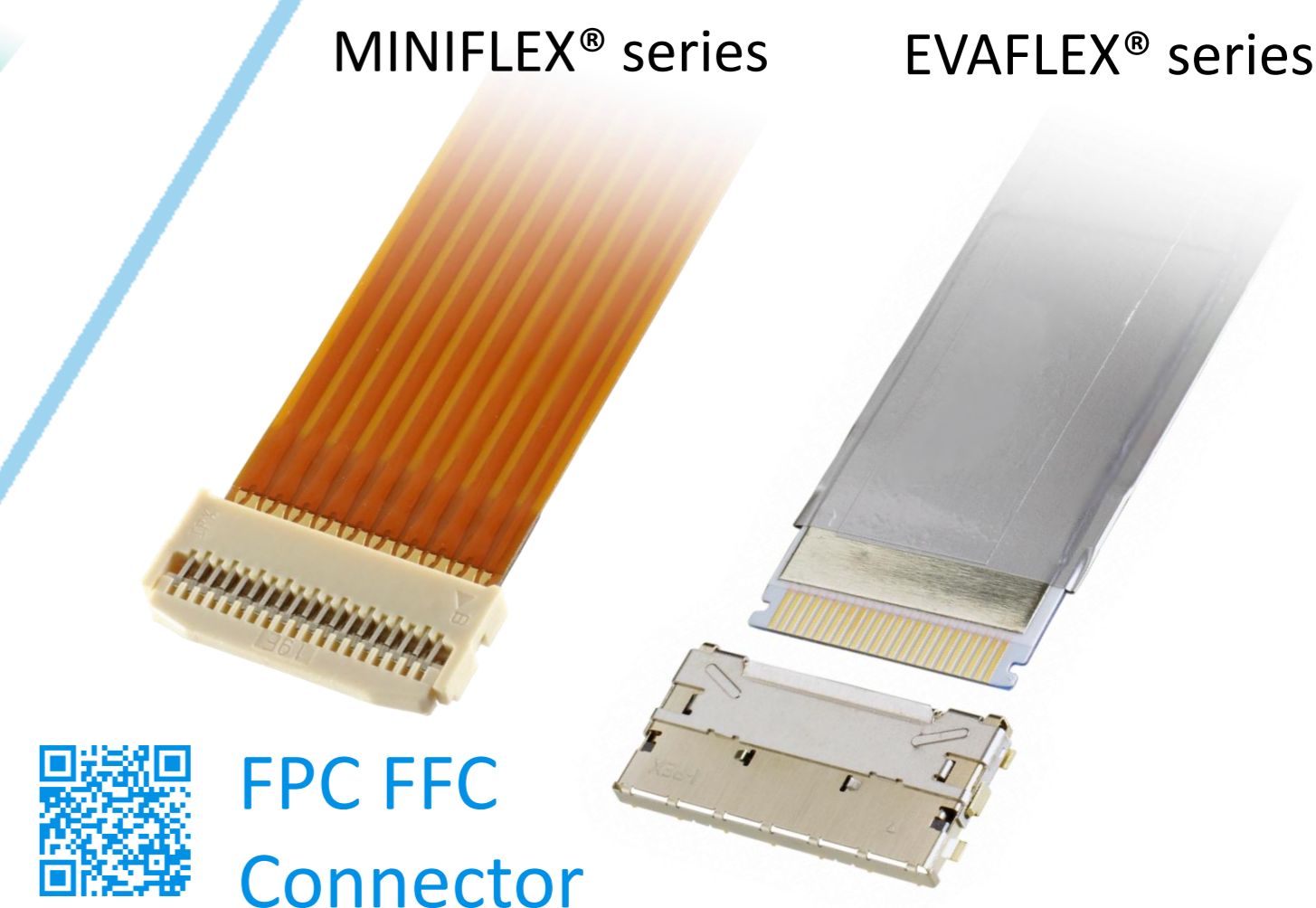
ISH® series



MINIFLEX® series

EVAFLEX® series

 FPC FFC Connector

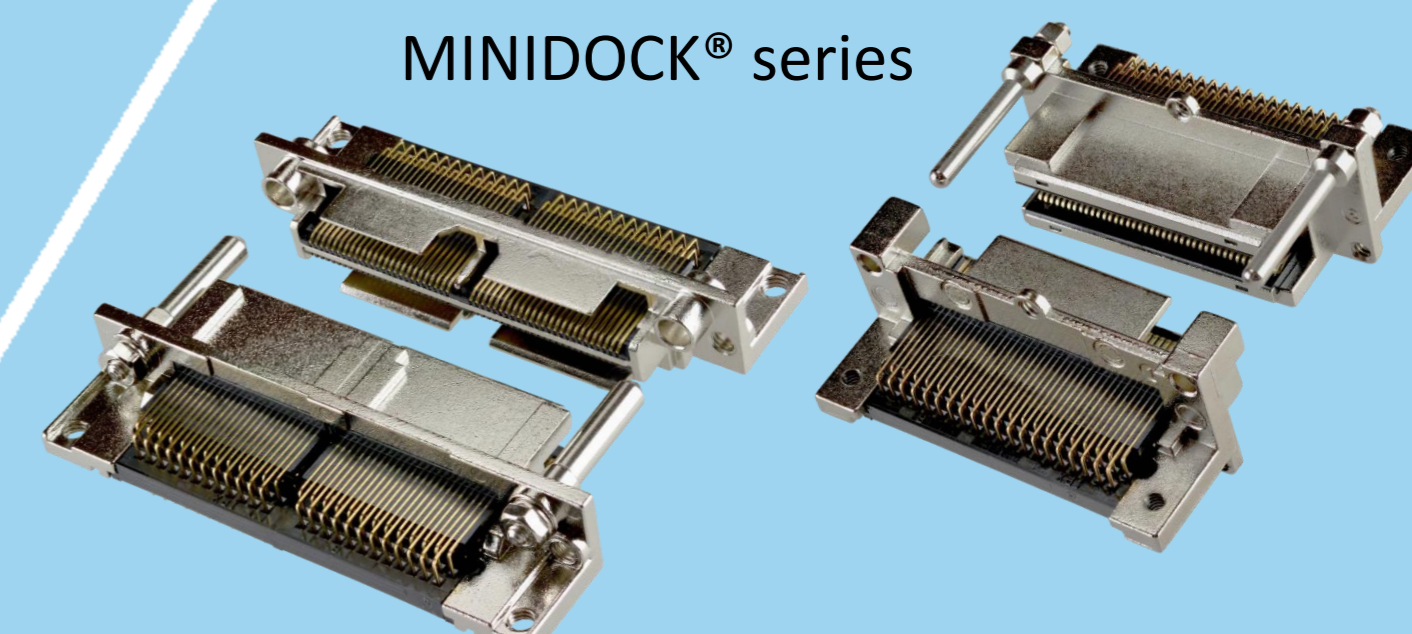


Inquiry



MINIDOCK® series

 I/O Connector



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Contact your sales representative or more detailed information.

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