

CABLINE®-CA IIP PLUS

フルシールド、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	30.95 mm
	Depth	8.20 mm
Pin Counts	Range	Up to 60
	Available	60

Applicable Cable Size:

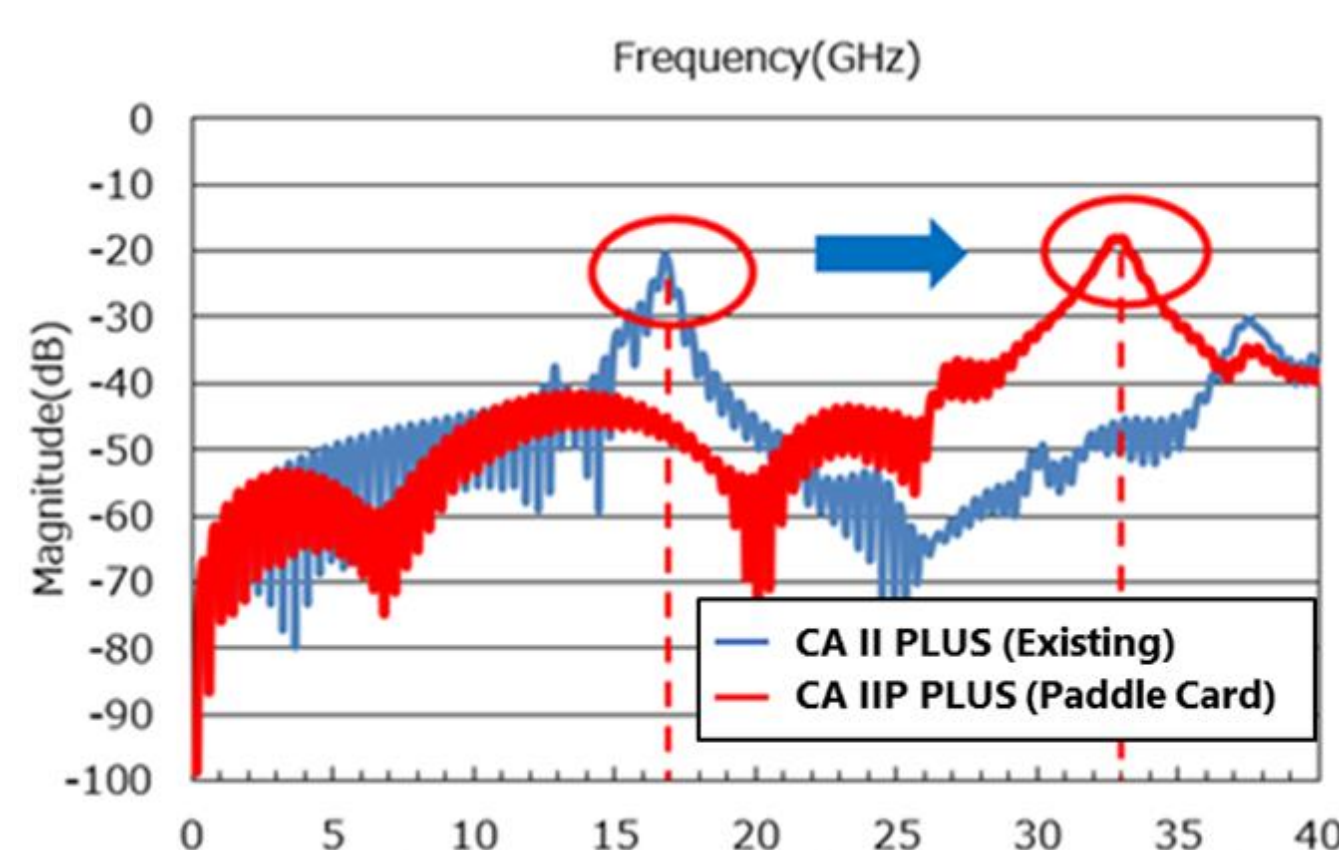
Maximum O.D. (mm)	1.2 mm (Twinax) 0.4 mm (Micro-Coaxial) 0.4 mm (Discrete)
Micro-Coaxial for Signal (AWG)	Diff 85 ohm: #38 & #36
Twinax for Signal (AWG)	Diff 85 ohm: #34
Discrete (AWG)	#32 or smaller

*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。

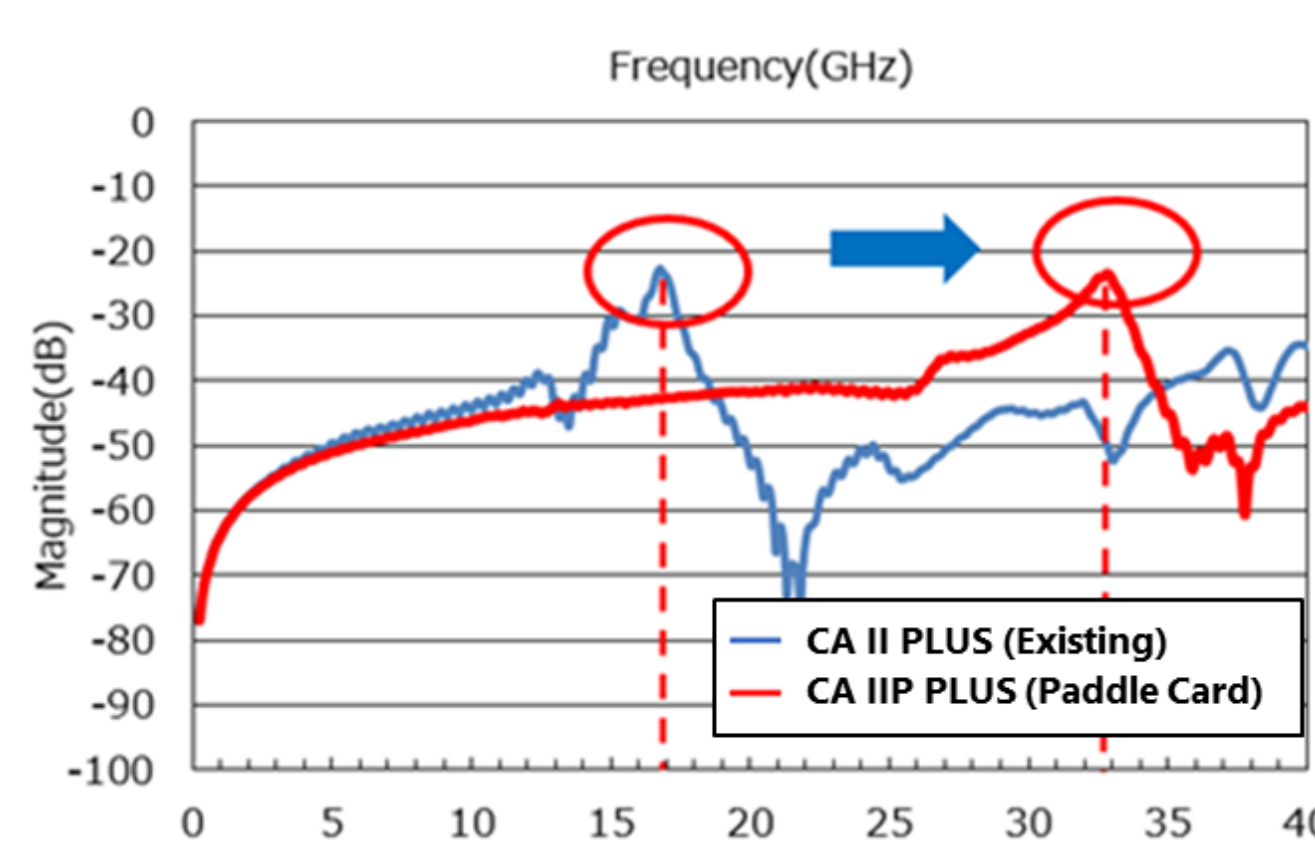


▶ パドルカード技術を用いた高速伝送 64Gbps/lane PAM4

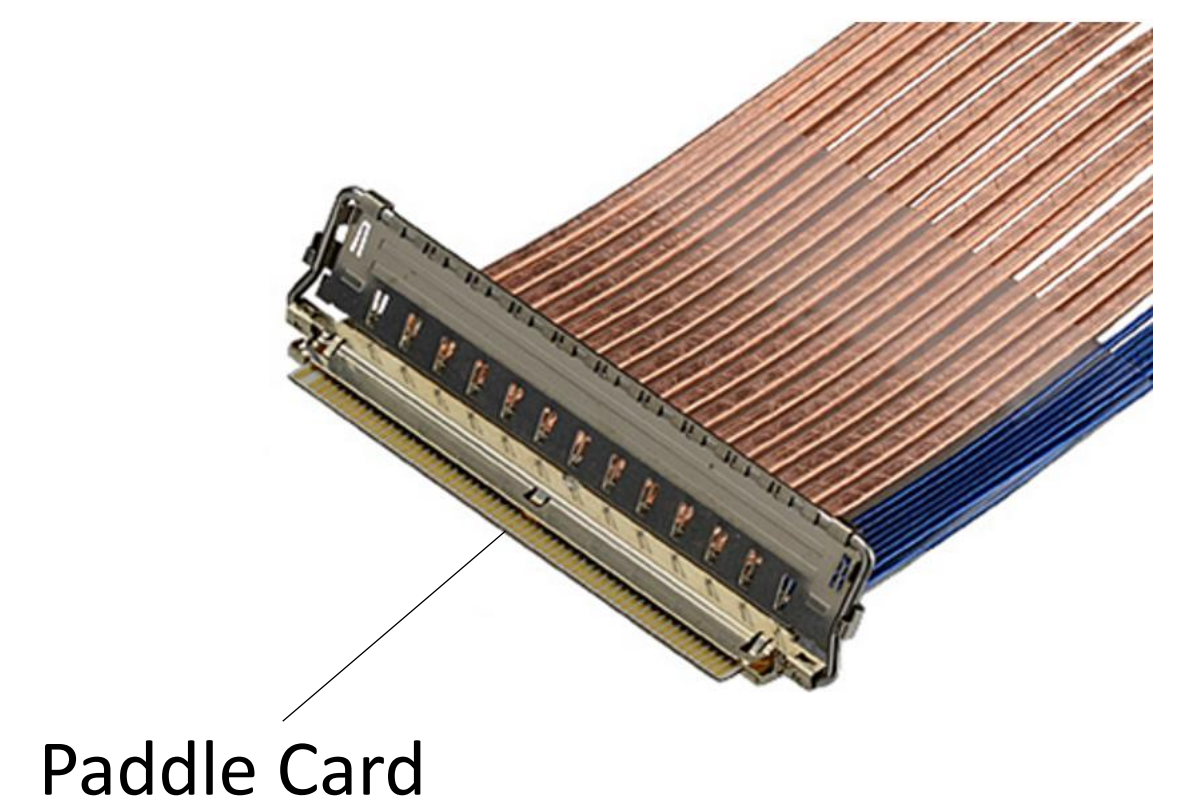
ケーブルプラグ部にパドルカードを採用する事で、信号品質を向上させ
既存のCABLINEシリーズから更なる高速伝送を実現



Near End Cross Talk



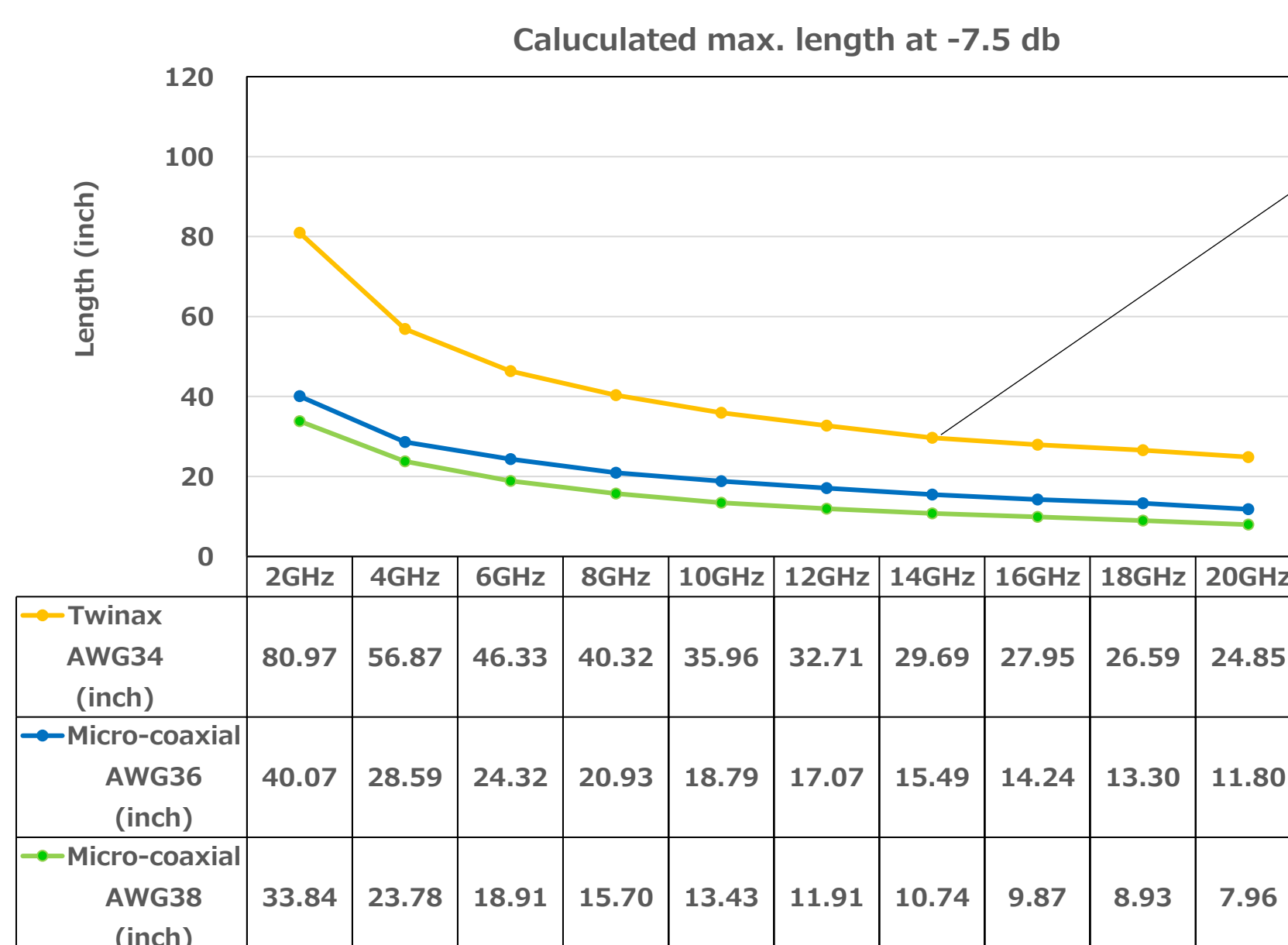
Far End Cross Talk



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

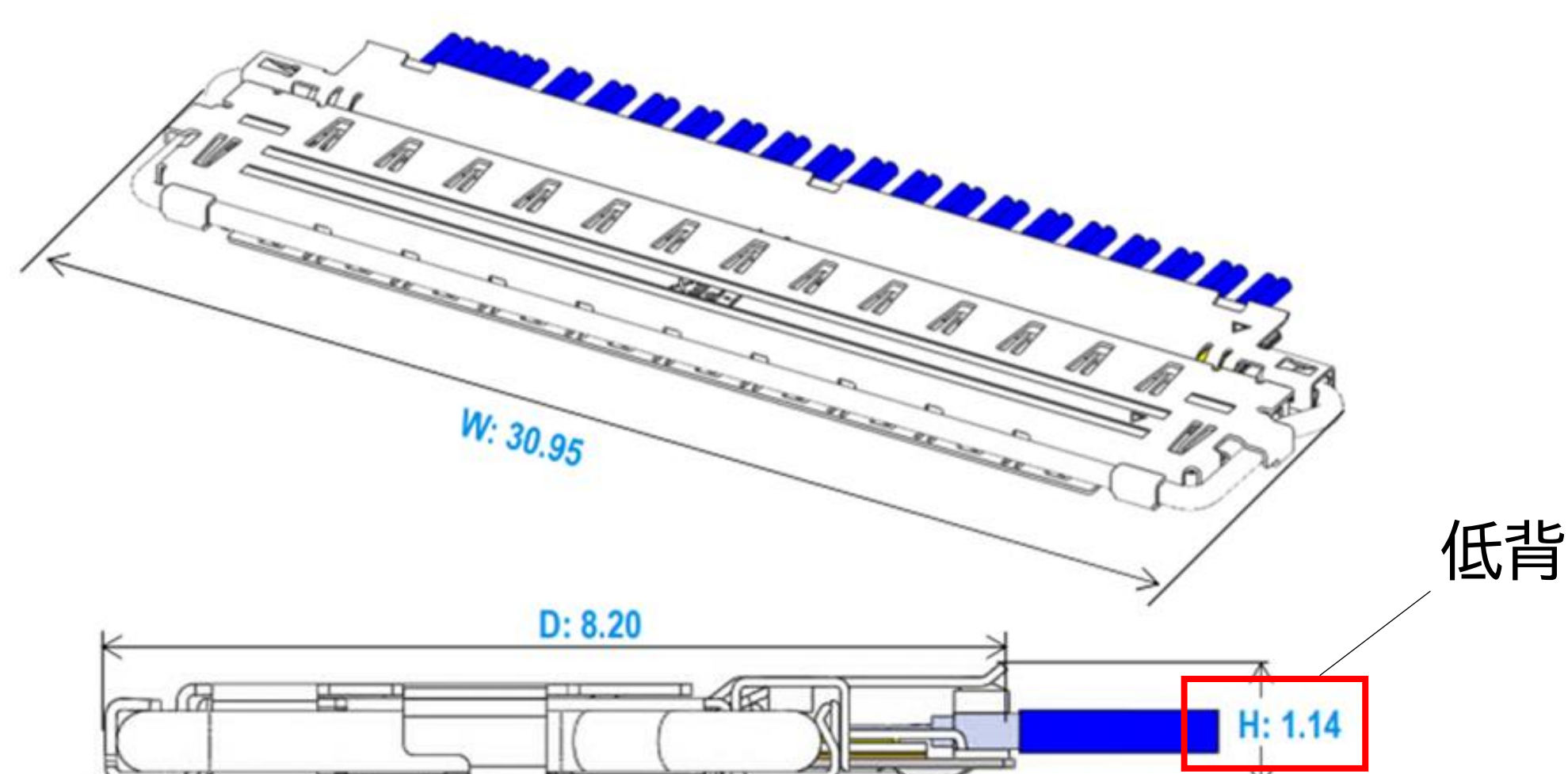


Twinax AWG34

Flexibility of Micro-coaxial cable

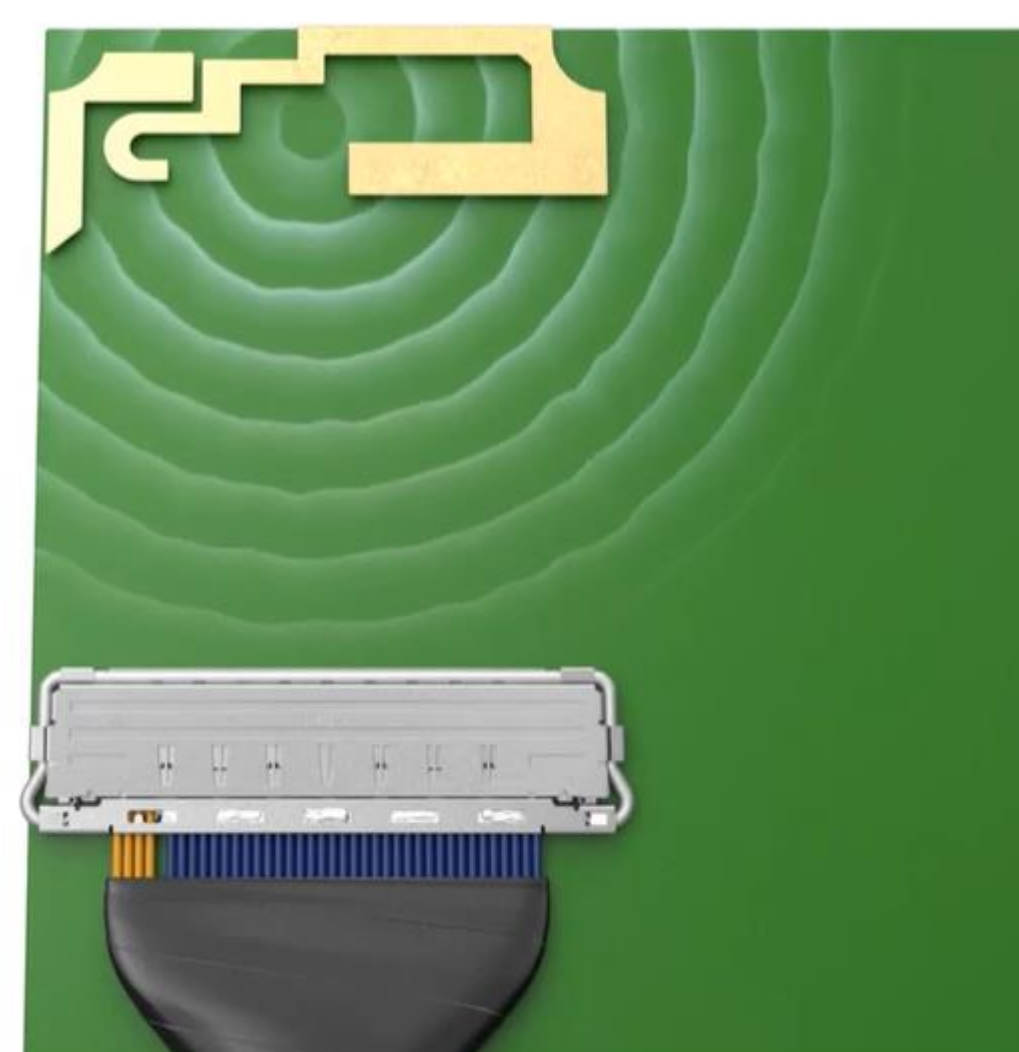


▶ 低背H=1.14 mm, 360度フルシールドによるEMC対策と 多点グランド接点のデザイン



低背

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		200.00±5.00	
82065-600B-04	B	500.00±10.00	MICRO COAXIAL CABLE, AWG#36 42.5 OHM, BLUE
82065-400B-01	A	200.00±5.00	
82065-400B-02		500.00±10.00	
82065-400B-03	B	200.00±5.00	MICRO COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
82065-400B-04	A	500.00±10.00	
82065-100B-01		200.00±5.00	
82065-100B-02	A	500.00±10.00	MICRO COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
82065-100B-03		200.00±5.00	
82065-100B-04	B	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℃ 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

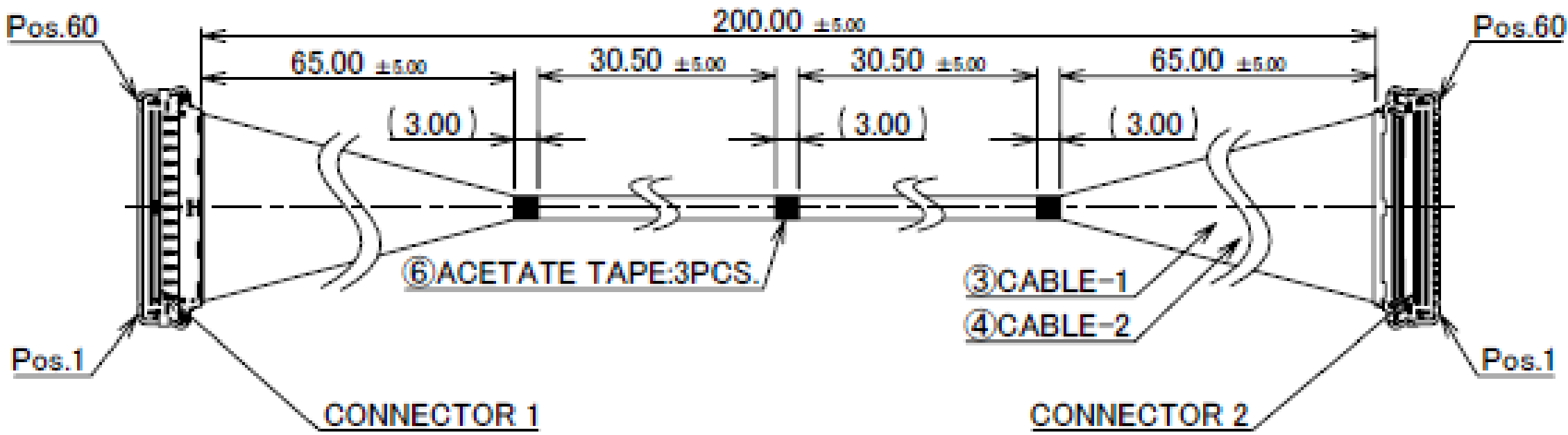
FOR GROUP B

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

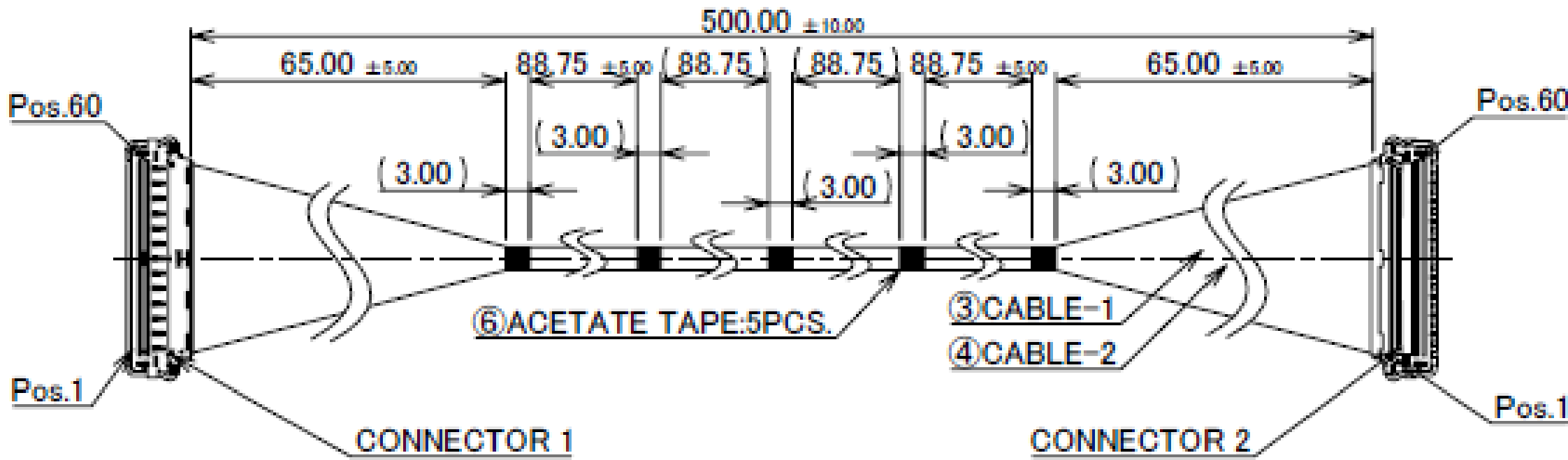
Rev.0

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

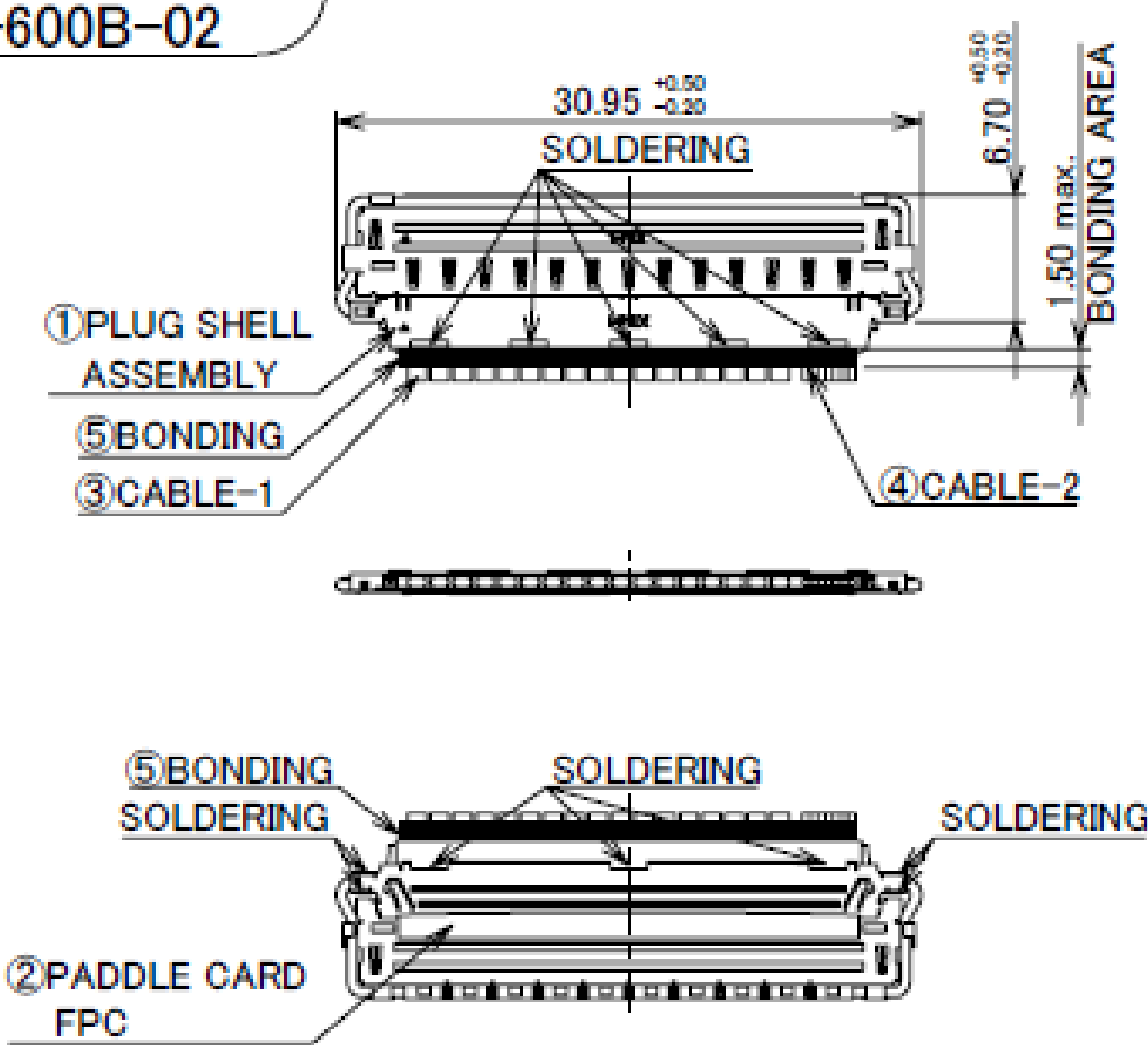


Rev.0

Plug Harness Assembly

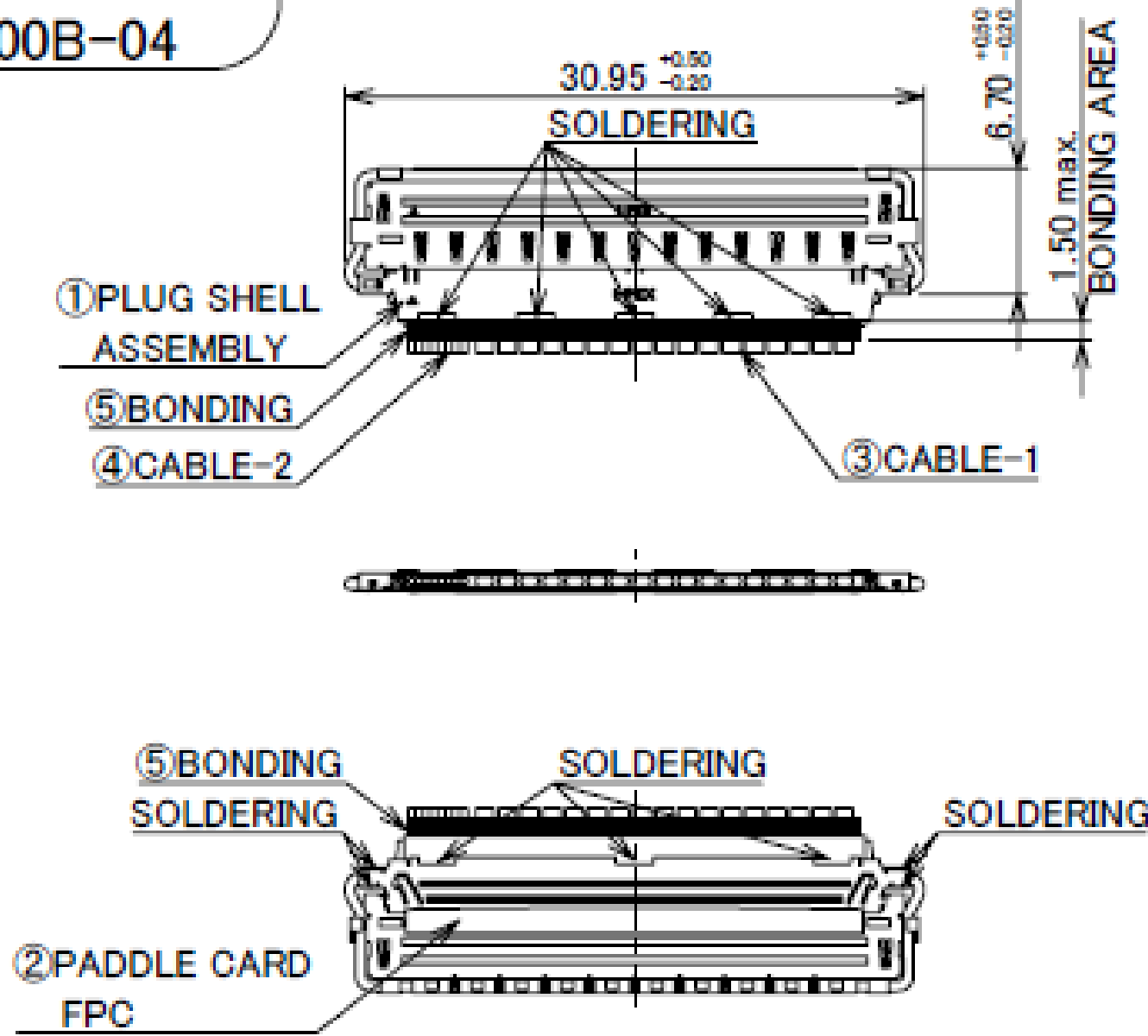
PART No.
82065-600B-0#

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

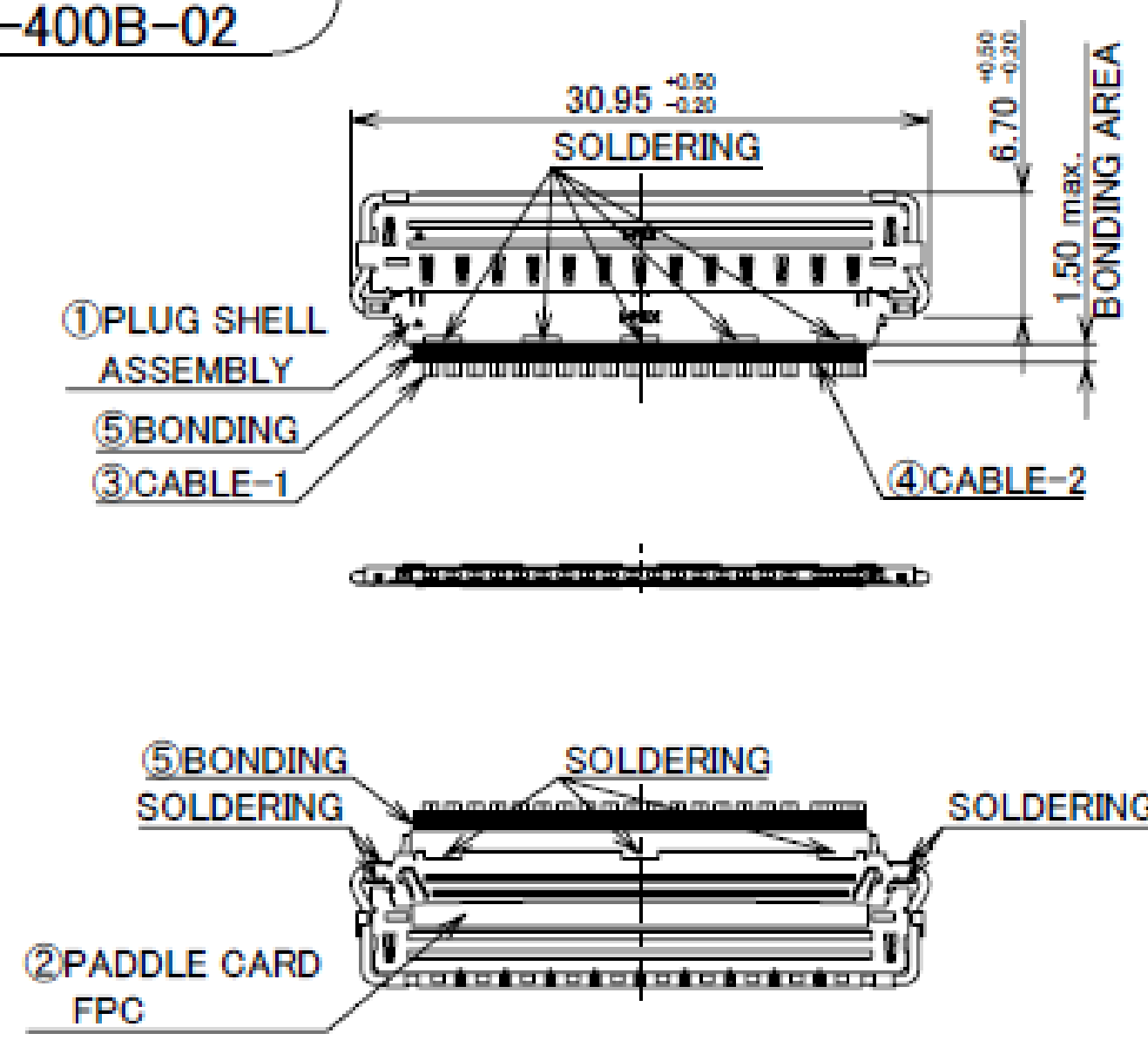


6	ACETATE TAPE	-	3OR5	BLACK
5	BONDING	-	-	UV GLUE
4	CABLE-2	-	8	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
3	CABLE-1	-	17	TWINAX CABLE, AWG#34 85 OHM
2	PADDLE CARD FPC	-	2	CONNECTOR 1 & 2
1	PLUG SHELL ASSEMBLY	21036-060T-01	2	CONNECTOR TO BE MATED : 20790-060E-02
NO.	DESCRIPTION	PARTS NO.	QTY	REMARKS

Rev.0

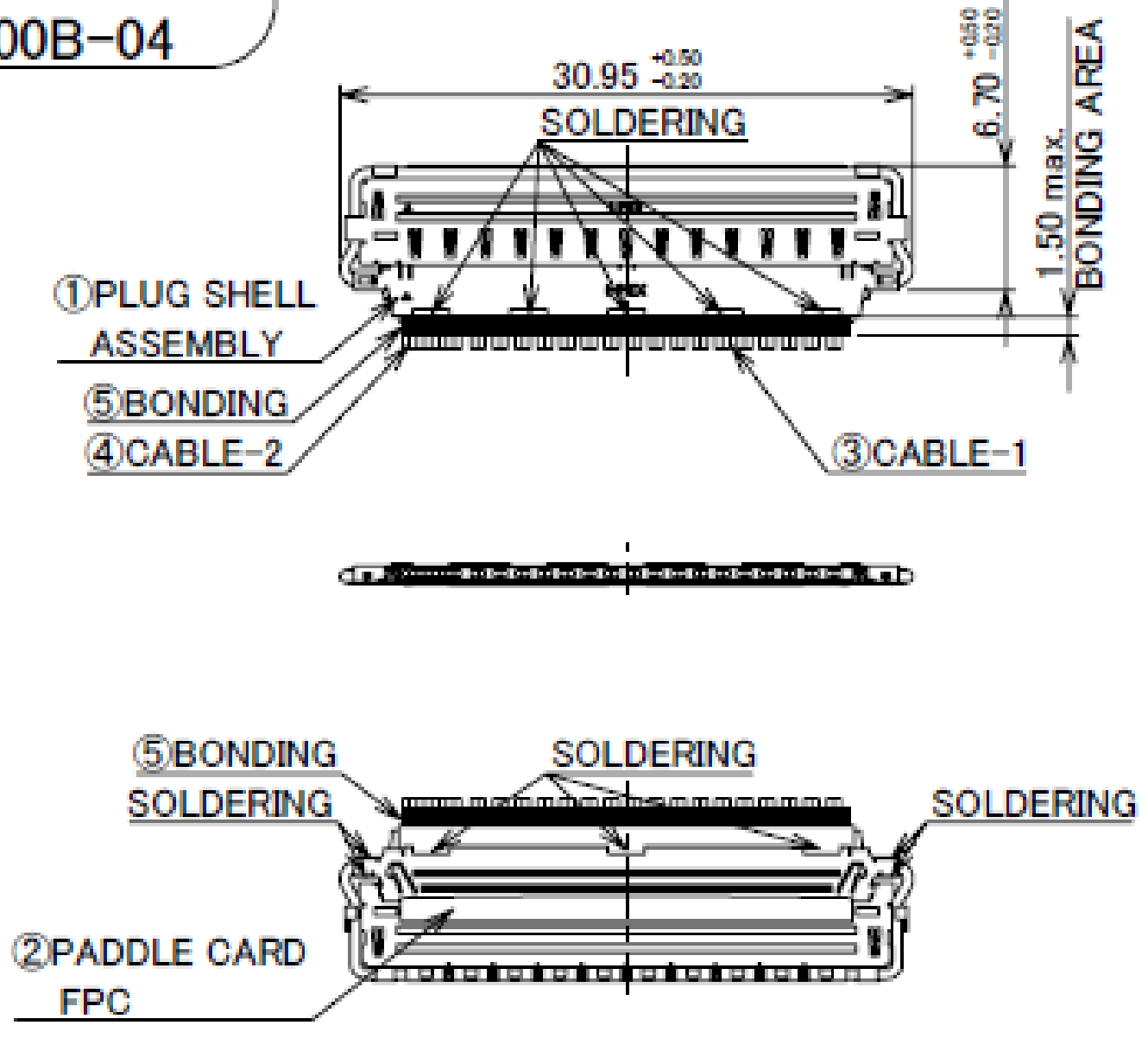
PART No.
82065-400B-0#

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



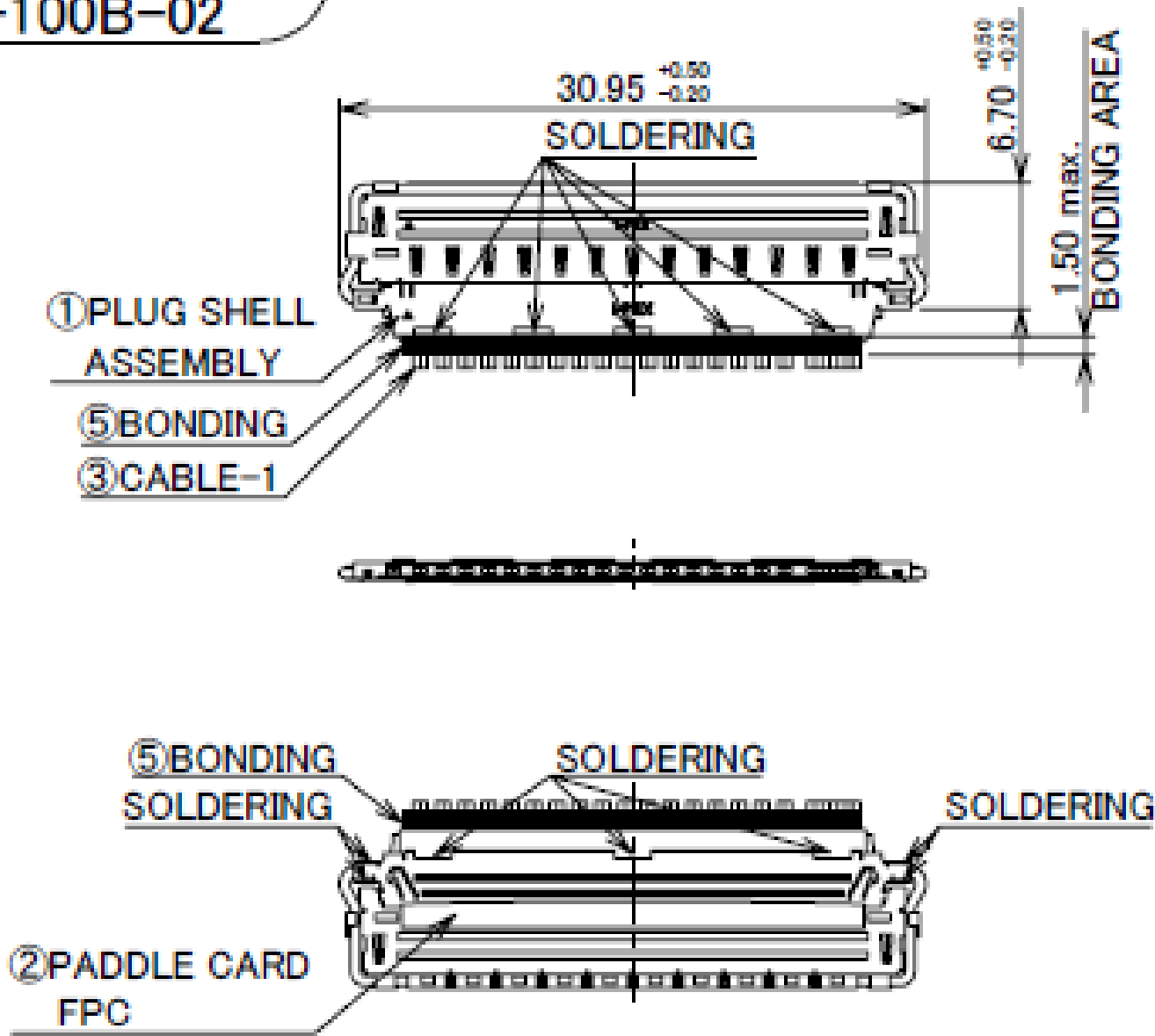
6	ACETATE TAPE	-	3OR5	BLACK
5	BONDING	-	-	UV GLUE
4	CABLE-2	-	8	MICRO-COAXIAL CABLE, AWG#38 42.5 OHM, BLUE
3	CABLE-1	-	34	MICRO-COAXIAL CABLE, AWG#36 42.5 OHM, BLUE
2	PADDLE CARD FPC	-	2	CONNECTOR 1 & 2
1	PLUG SHELL ASSEMBLY	21036-060T-01	2	CONNECTOR TO BE MATED : 20790-060E-02
NO.	DESCRIPTION	PARTS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

Rev.0

Plug Harness Assembly

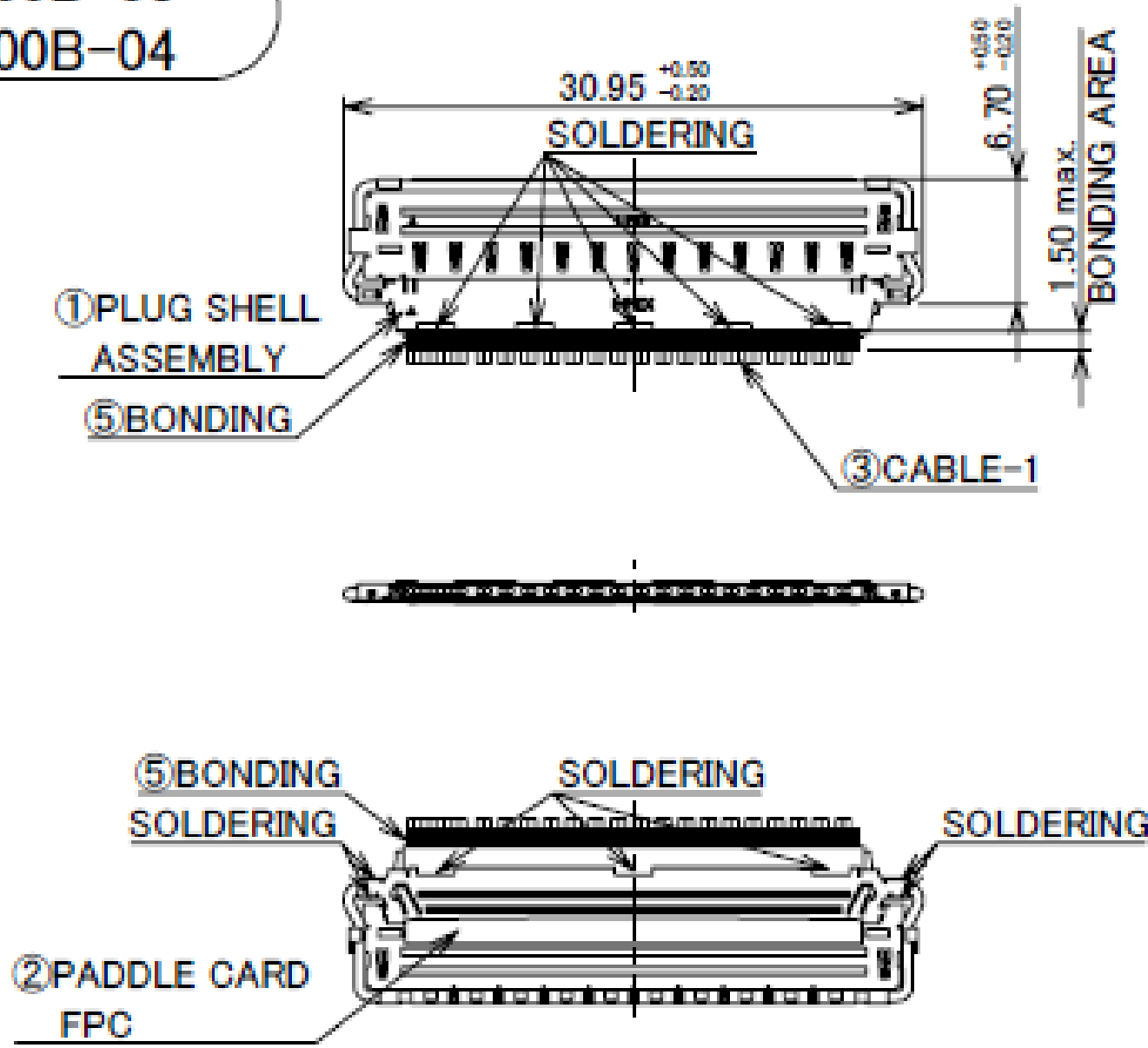
PART No.
82065-100B-0#

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

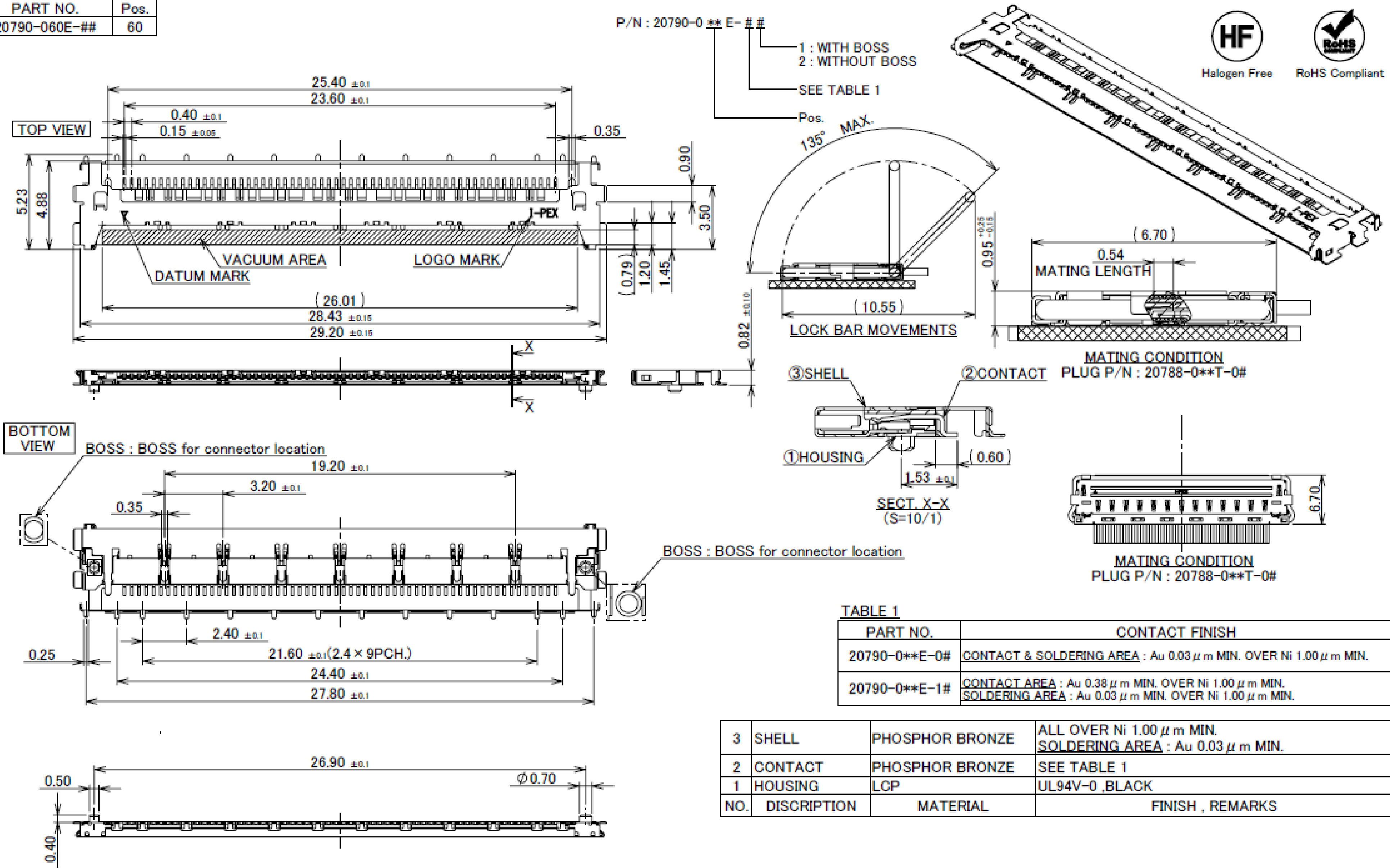
Rev.0

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℃～85℃)
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	30 CYCLES
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

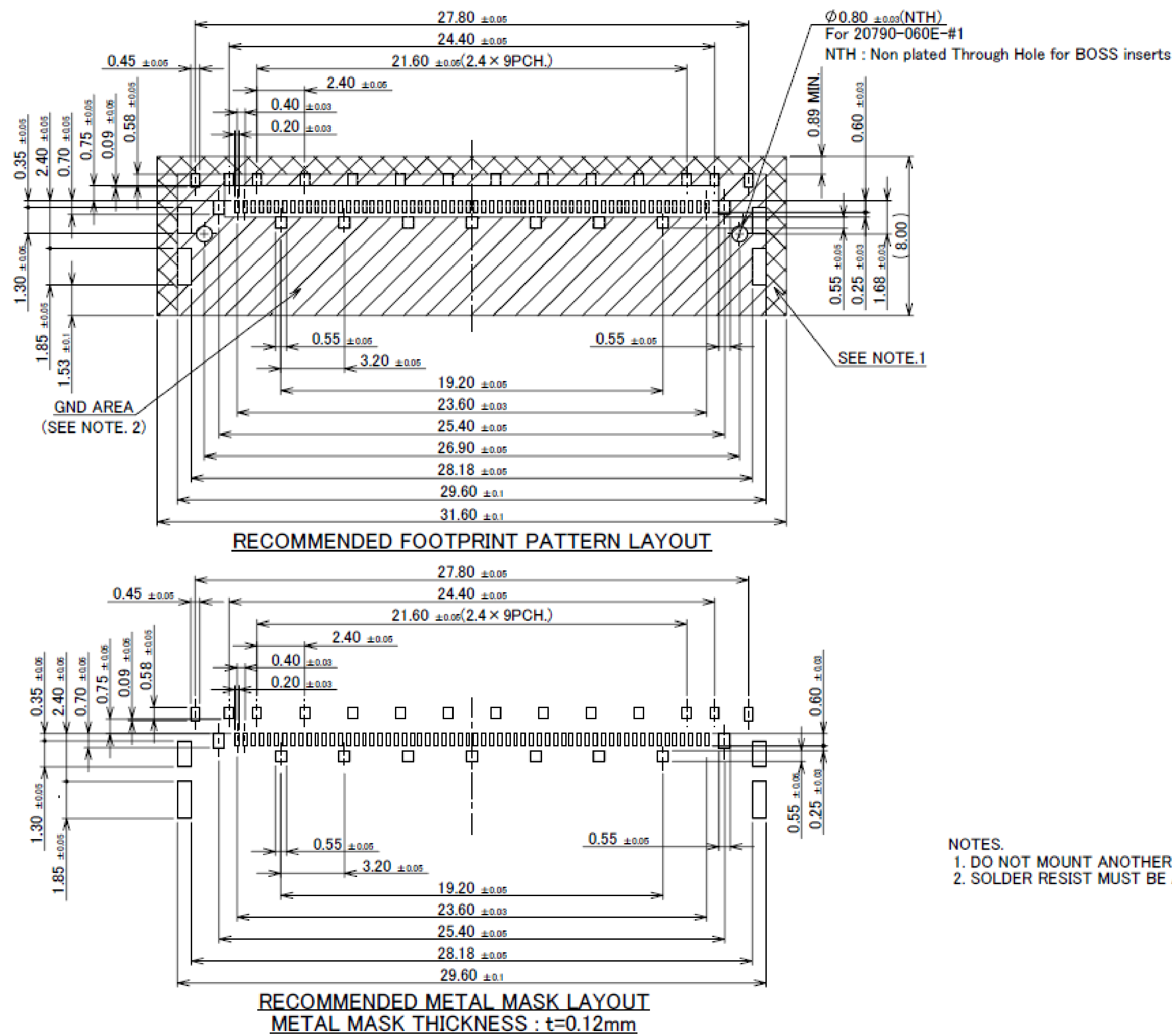
Rev.0

Receptacle Assembly

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

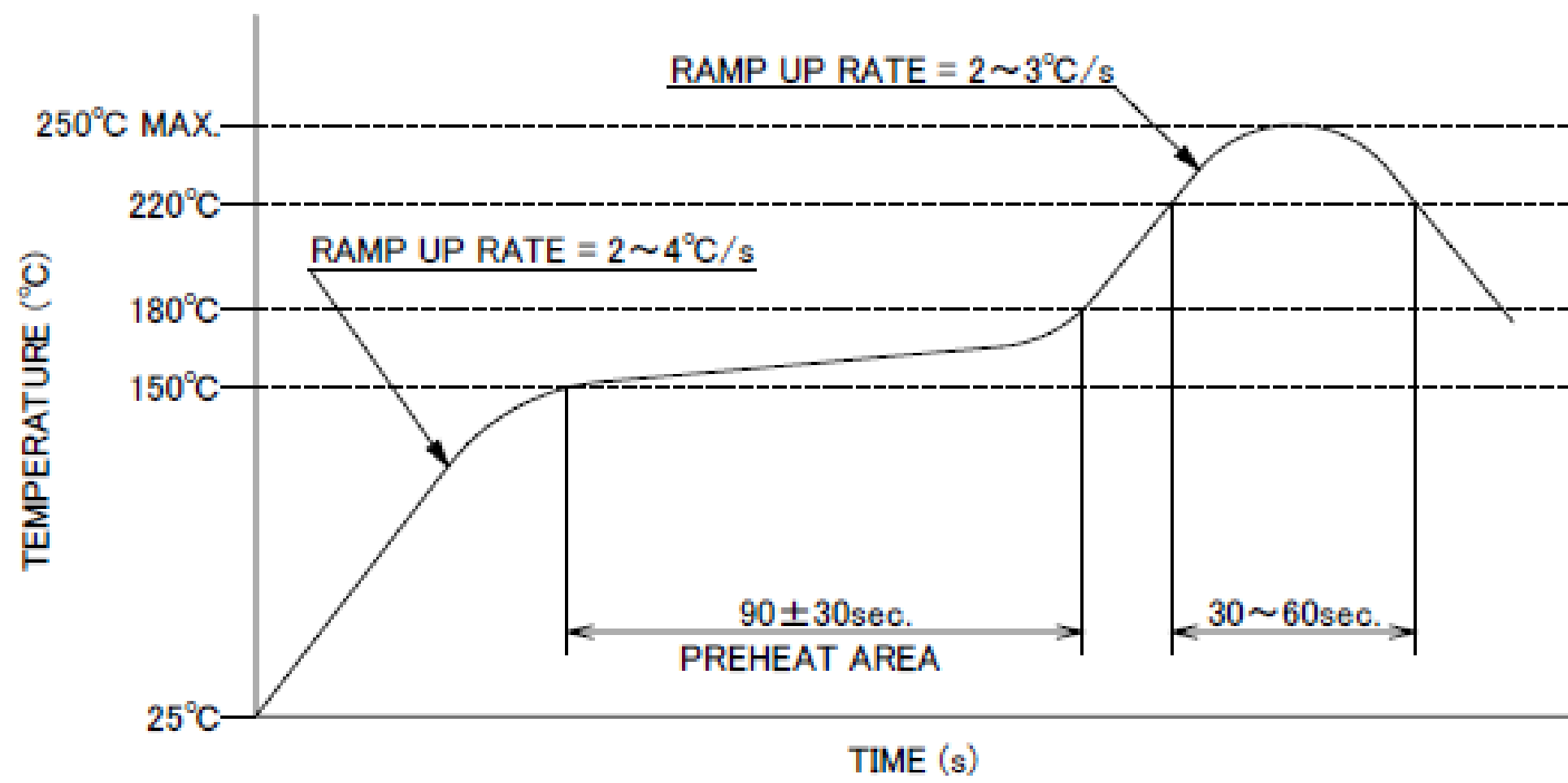
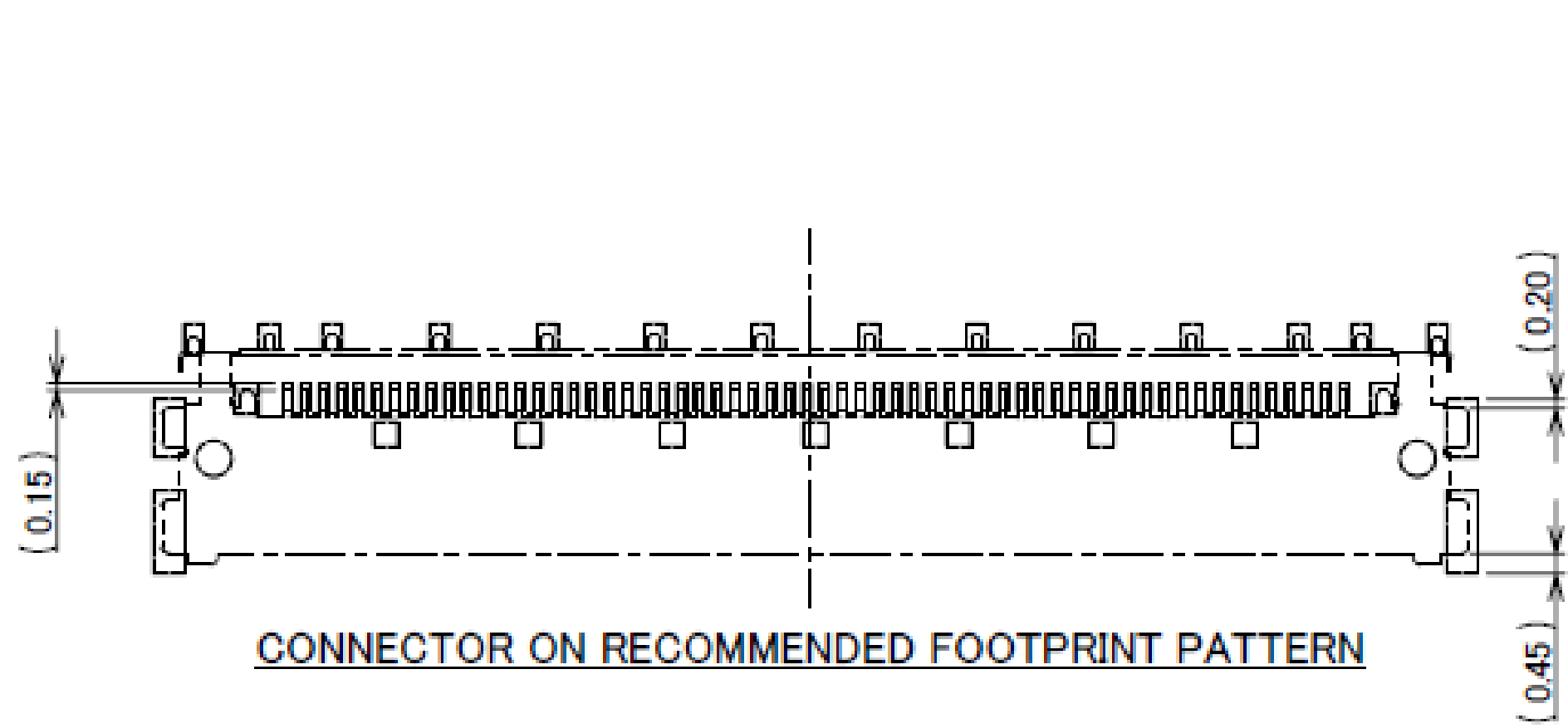


Rev.17



Rev.17

Receptacle Assembly



REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

Rev.17

FOR CABLINE-CA II PLUS PLUG CABLE ASSEMBLY (DWG. NO. 20788)

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44 , 42 , 40 , 38 , 36 DISCRETE WIRE : AWG# 36 , 34 TWINAX CABLE : AWG# 40 , 42
RATING VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 60 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 60 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT PIN/UP TO 60 CONTACTS 0.5A AC/DC [AWG#38] PER CONTACT PIN/UP TO 18 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT PIN/UP TO 6 CONTACTS 1.0A AC/DC [AWG#34] PER CONTACT PIN/UP TO 6 CONTACTS ※TESTING BY REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~378K(-40°C~105°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENDING)
CONTACT RESISTANCE	INITIAL : 180mohm MAX.(AWG#34) / AFTER TEST : ≦40mohm MAX. 275mohm MAX.(AWG#36) 360mohm MAX.(AWG#38) 600mohm MAX.(AWG#40) 700mohm MAX.(AWG#42) 1080mohm MAX.(AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : ≦40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER 30 CYCLES)	29.10N MAX.
UN-MATING FORCE (INITIAL / AFTER 30 CYCLES)	6.0N MIN.
CABLE RETENTION FORCE	29.40N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2261
TEST REPORT	TR-16075, TR-23031
INSTRUCTION MANUAL	HIM-16028
PACKING STANDARD	PST-16078
APPEARANCE CRITERIA NO.	QLS-A***

Rev.17

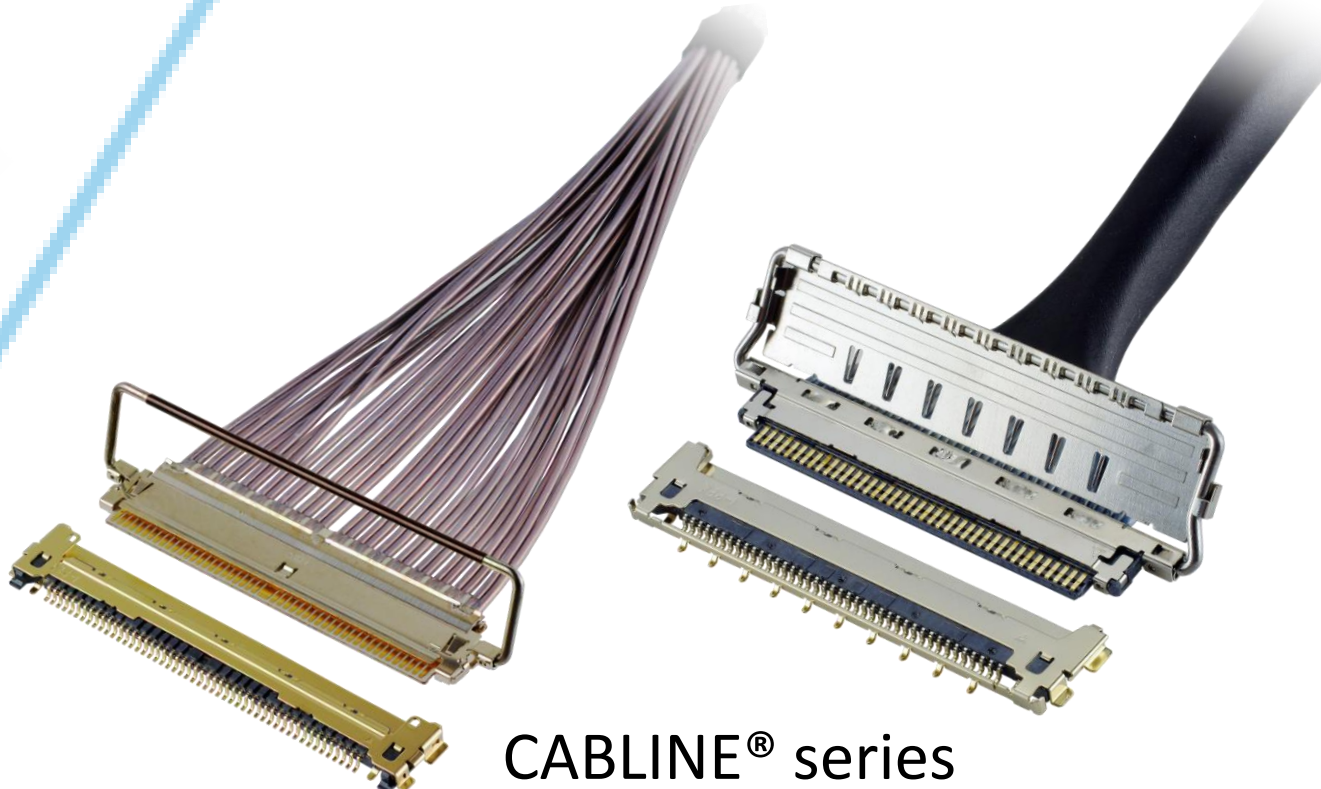
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series



Micro-Coaxial/Twinax
Connectors



Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



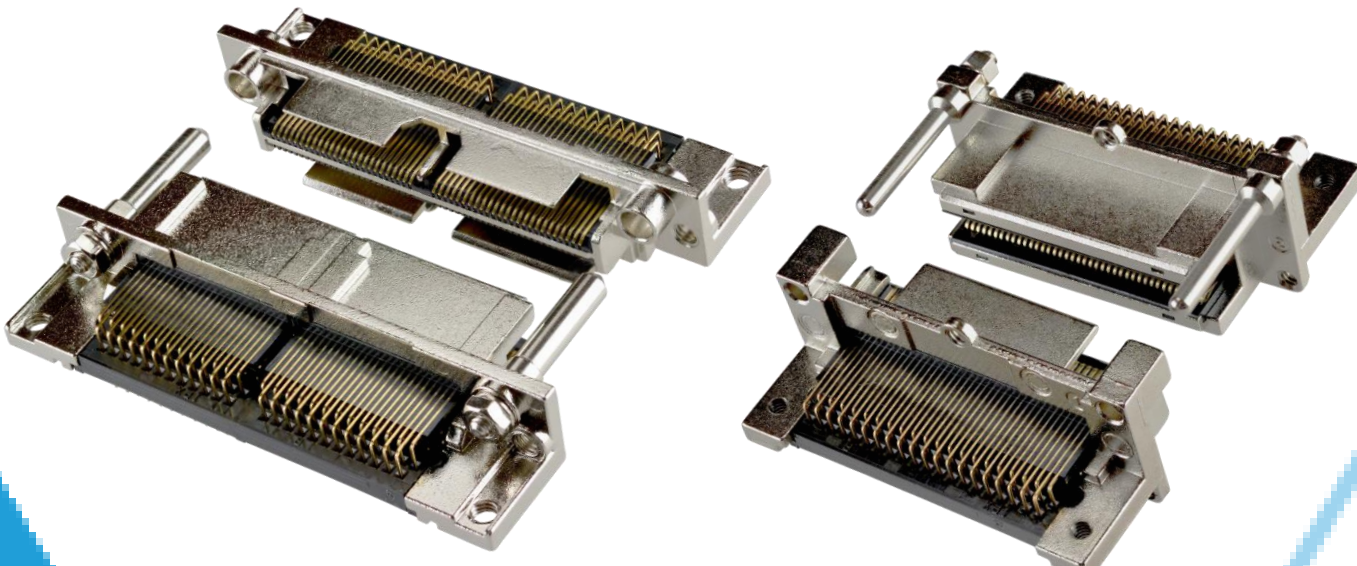
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



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