# CABLINE®-CA II PLUS

Full Shield, Mechanical Lock 장치로 완전 차폐, 고속 데이터 전송(32Gbps/레인)에 0.4mm Pitch, 수평 결합형 Micro Coaxial Connector

\*더욱 고속 64 Gbps PAM4에는 CABLINE-CA II PLUS 리셉터클(20790-060E-01/-02)과 결합하는 CABLINE-CA IIP PLUS 하네스 솔루션을 확인하십시오.

**Product Specifications:** 

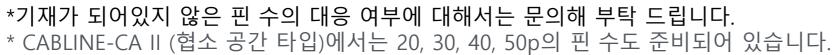
	Mating type		Horizontal
	Board Pitch (mm)		0.4
	Wiping Length (mm)		0.54
	Mated size (mm)	Height	1.2 max. with cover
		Width	Formula: 6.95 + (0.4*?p)
		Depth	6.7
	Pin Counts	Range	Up to 60
		Available	60

**Applicable Cable Size:** 

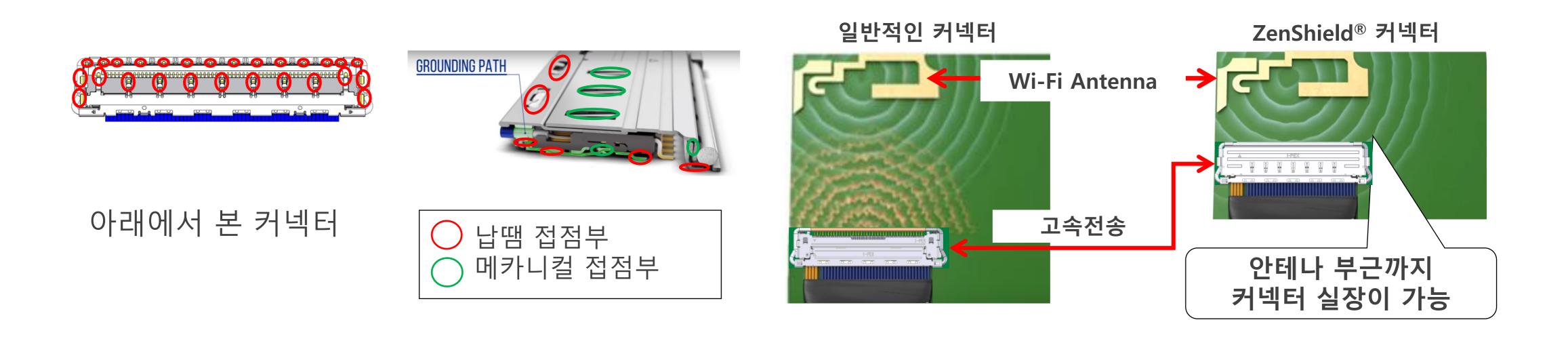
Maximum O.D. (mm)	0.4	
Micro-Coaxial	45 ohm: #38 or smaller	
for Signal (AWG)	50 ohm: #40 or smaller	
Twinax (AWG)	#40, #42	
Discrete (AWG)	#34 or smaller	
	<u> </u>	

**Applicable Standards (Reference Only):** 

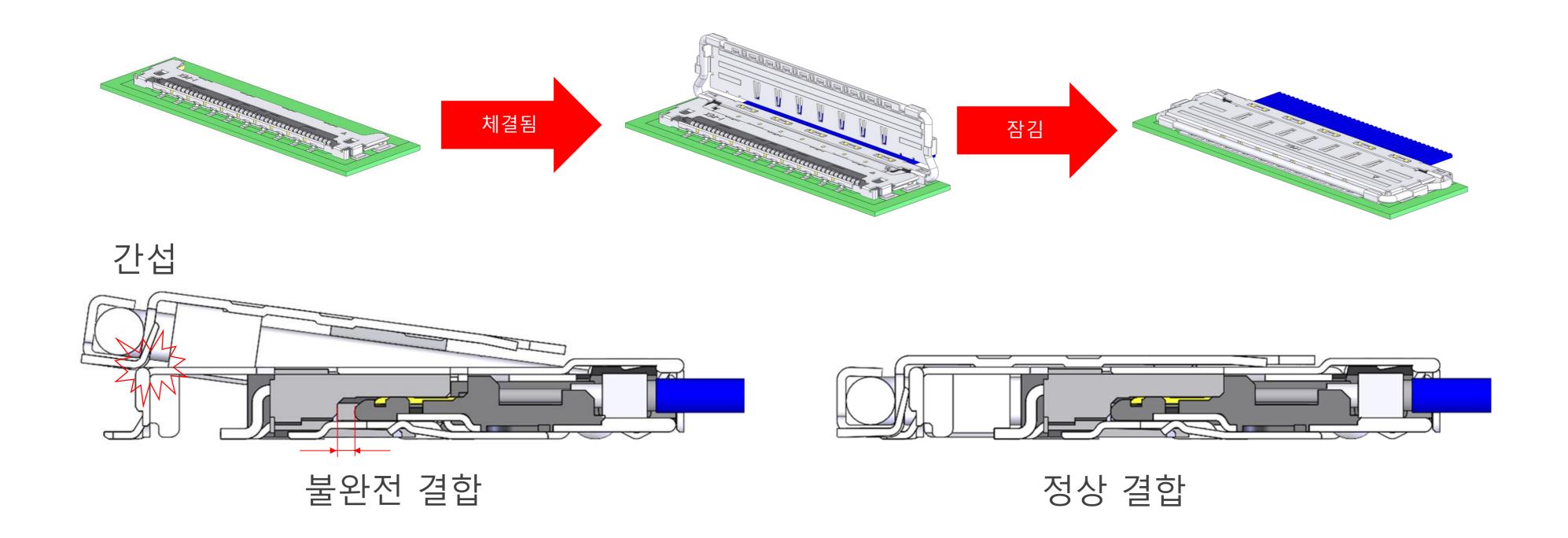
32 Gbps/ Lane, USB4 Gen4 (40 Gbps/ Lane PAM3) Display Port UHBR20 (20 Gbps/Lane),







#### 메카니컬 록 바를 통한 불완전 결합 방지와 플러그 빠짐 방지



## 32Gbps/lane의 고속전송 내부 연결에 최적

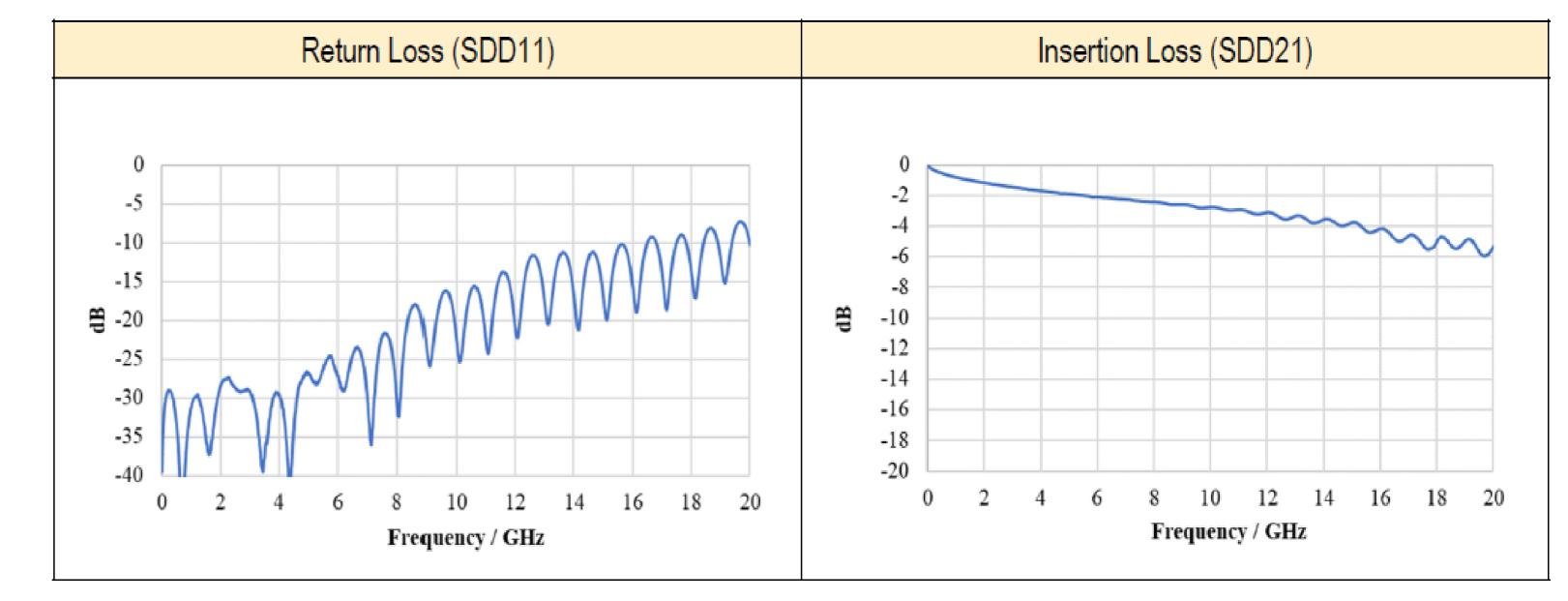
#### Measurement results

Connector: CABLINE-CA II 40P

Cable: Micro-coaxial cable

AWG #40, 45ohm, Length: 100 mm

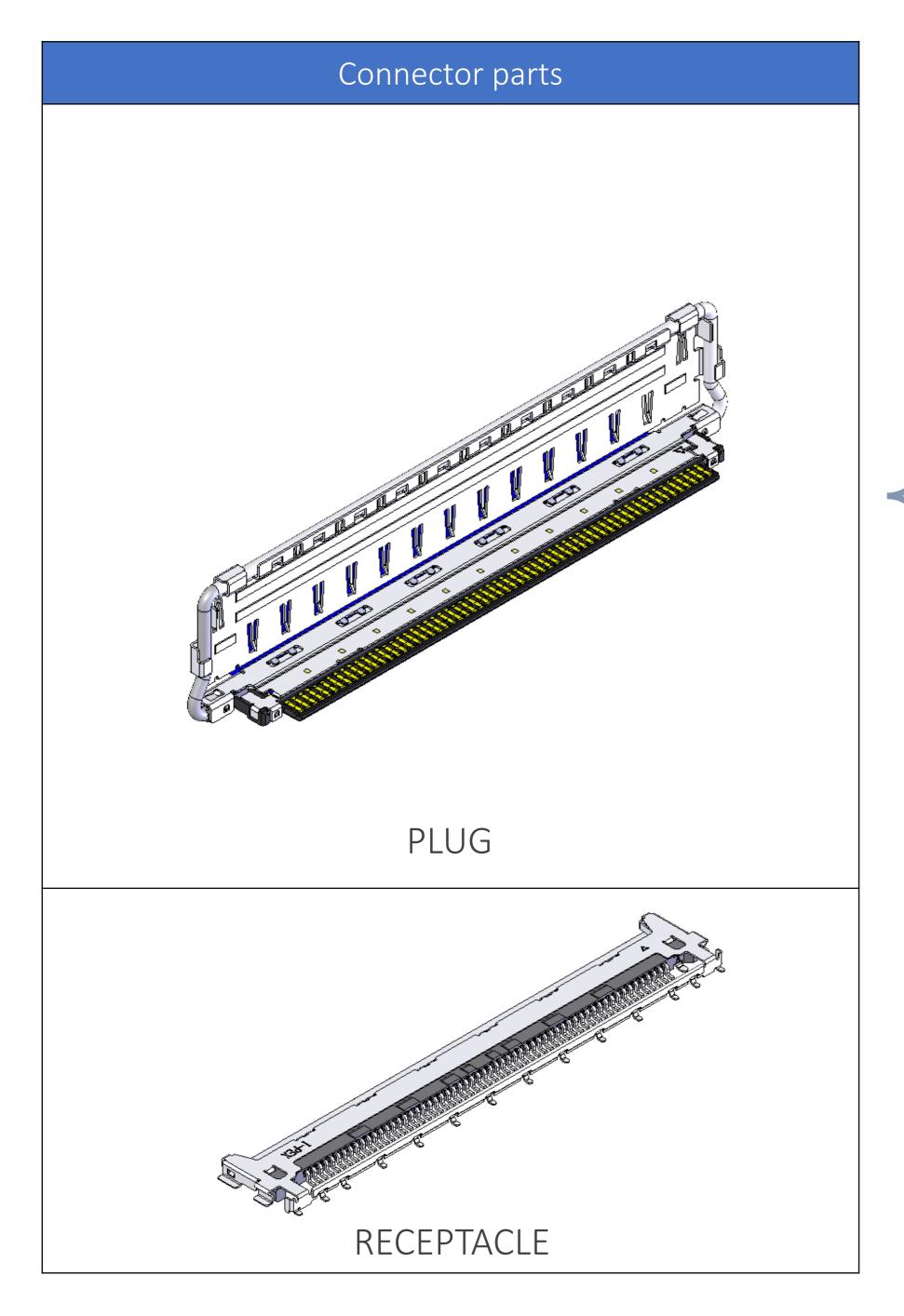
Pin Assignment: GSSGSSG

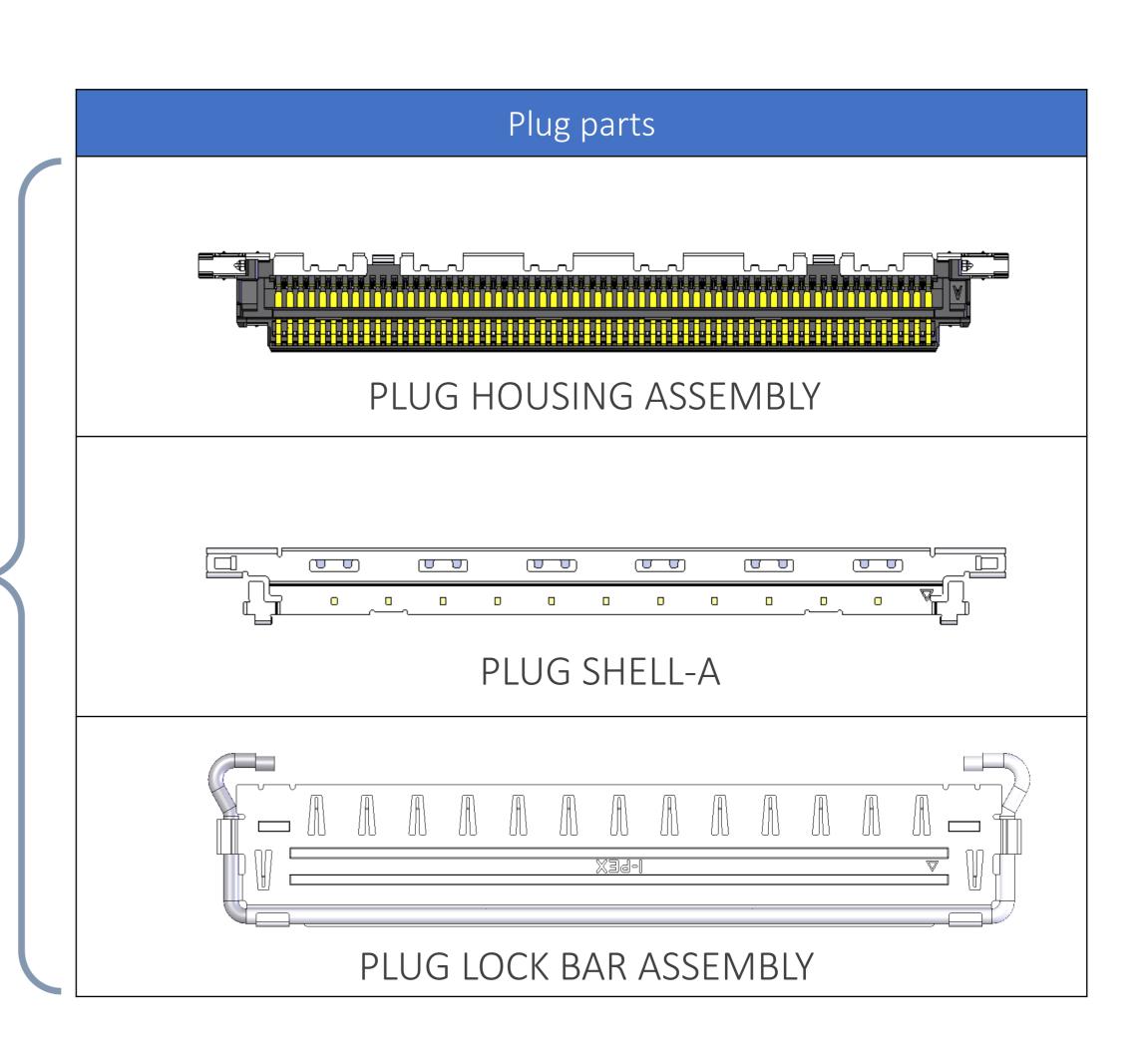




# Component Parts Details

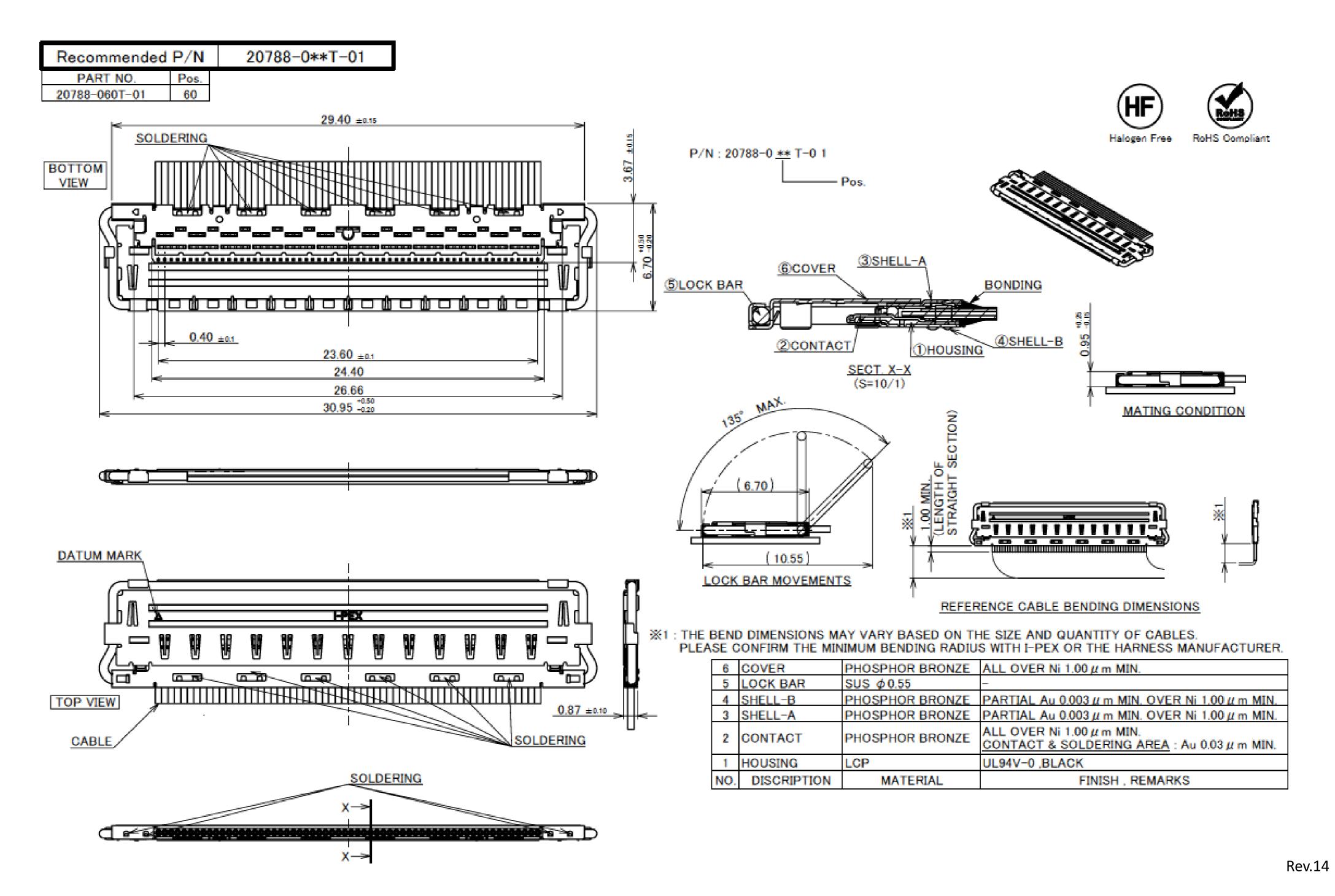
#### **Component Parts**

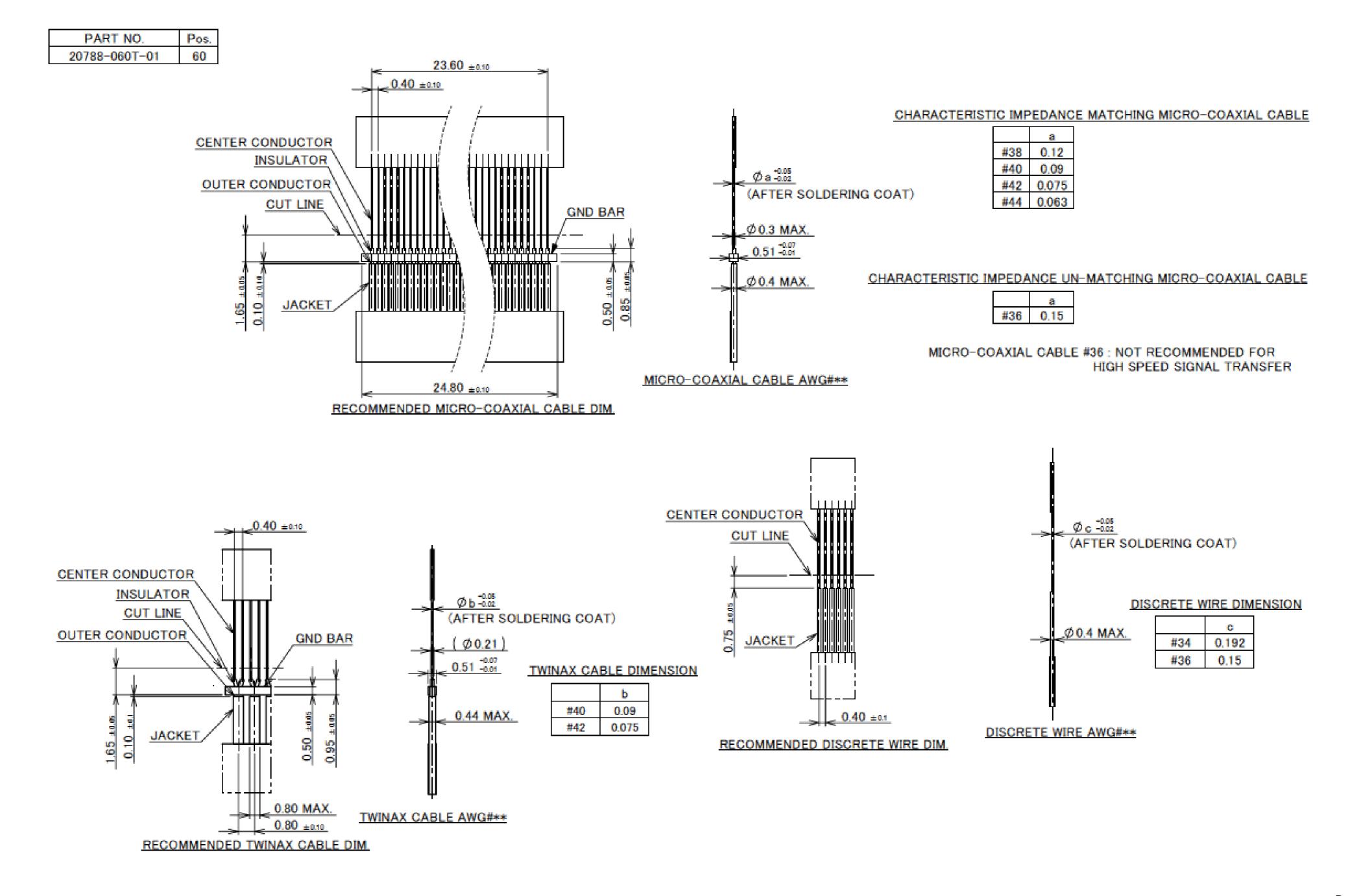






#### Plug for Cable Assembly





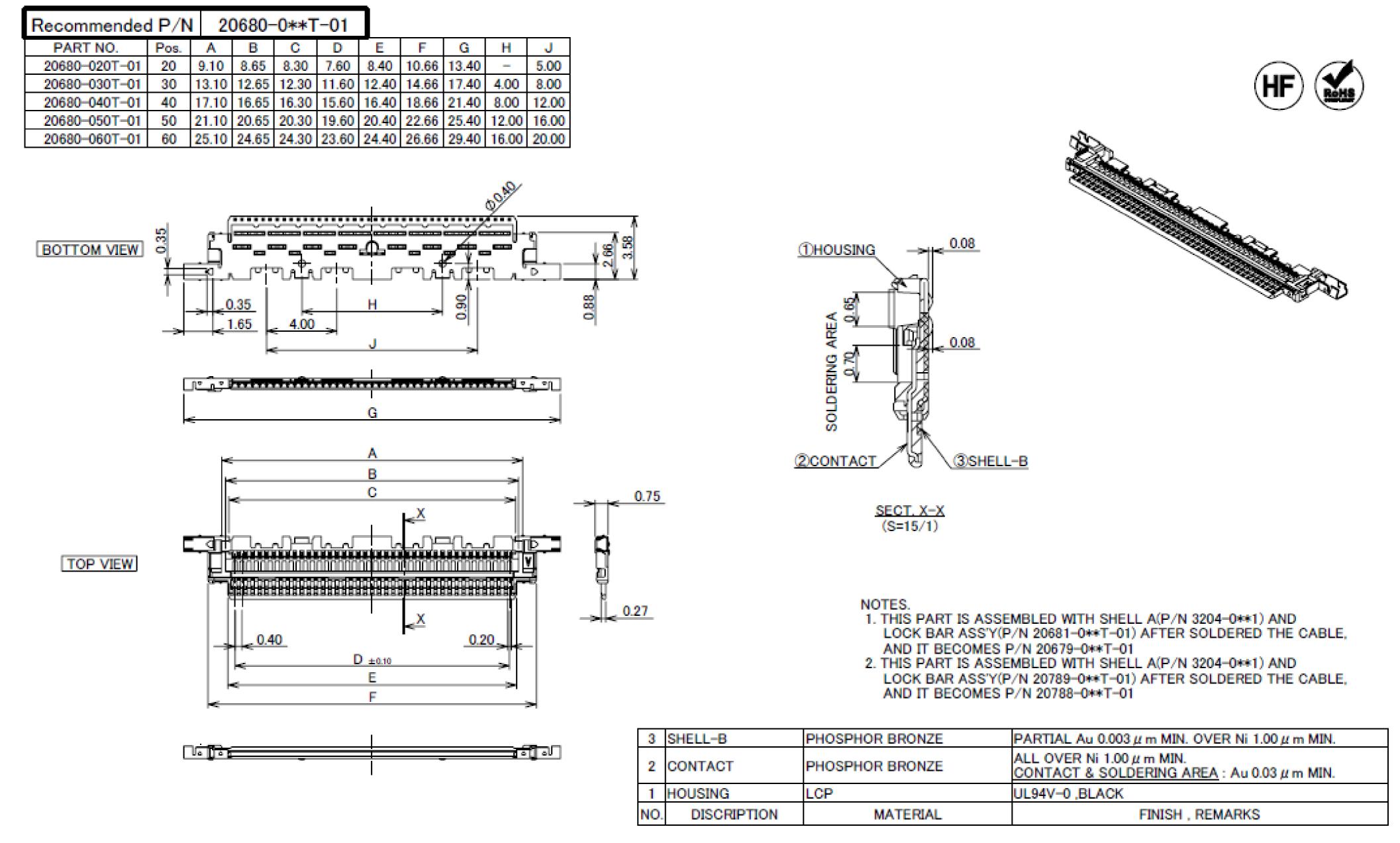


#### Plug for Cable Assembly

ITEMS	SPECIFICATION
	MICRO-COAXIAL CABLE: AWG# 44, 42, 40, 38, 36
APPLICABLE CABLE	DISCRETE WIRE: AWG# 36, 34
	TWINAX CABLE: AWG# 40, 42
	100V AC (PER CONTACT PIN)
RATING VOLTAGE	**THIS IS THE RATED VOLTAGE OF THE CONNECTOR.
	PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
	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
RATING AMPERAGE (FOR CONTACT)	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	248~378K(-40°C~105°C)
	85% MAX.(NON-CONDENDING)
OPERATING HUMIDITY	INITIAL: 180mohm MAX.(AWG#34) / AFTER TEST: ⊿40mohm MAX.
	275mohm MAX.(AWG#34) / AFTER TEST: ZJ40mohm MAX.
	360mohm MAX.(AWG#38)
CONTACT RESISTANCE	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.
PRODUCT SPECIFICATION	PRS-2261
TEST REPORT	TR-16075, TR-23031
INSTRUCTION MANUAL	HIM-16028
ASSEMBLY MANUAL	ASM-16004
APPEARANCE CRITERIA NO.	QLS-A***

Rev.14

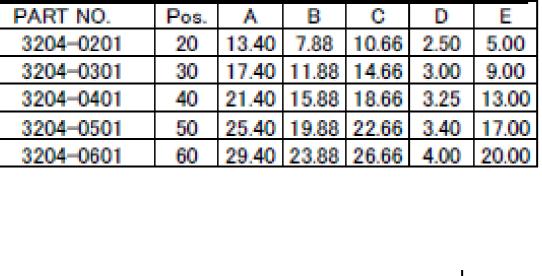
## **Plug Housing Assembly**

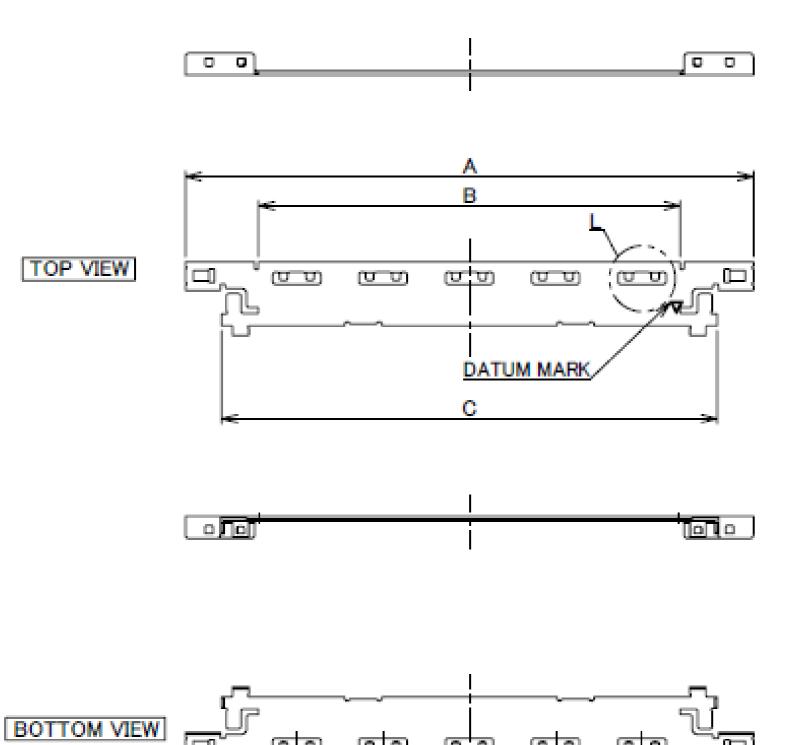




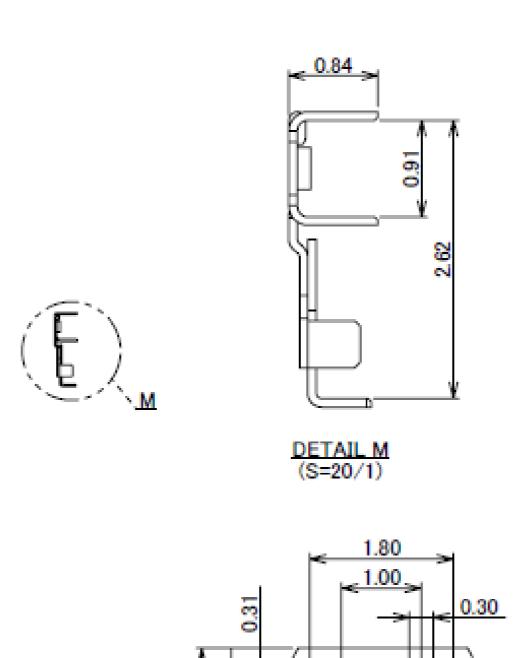
### **Plug Shell-A**

Recommended	d P/N	1	32	04-0×	<b>*</b> *1	
PART NO.	Pos.	Α	В	С	D	E
3204-0201	20	13.40	7.88	10.66	2.50	5.00
3204-0301	30	17.40	11.88	14.66	3.00	9.00
3204-0401	40	21.40	15.88	18.66	3.25	13.00
3204-0501	50	25.40	19.88	22.66	3.40	17.00
3204-0601	60	20.40	22.00	26.66	4.00	20.00





 $E \{=D \times (n-1)\}$ 



DETAIL L (S=15/1)

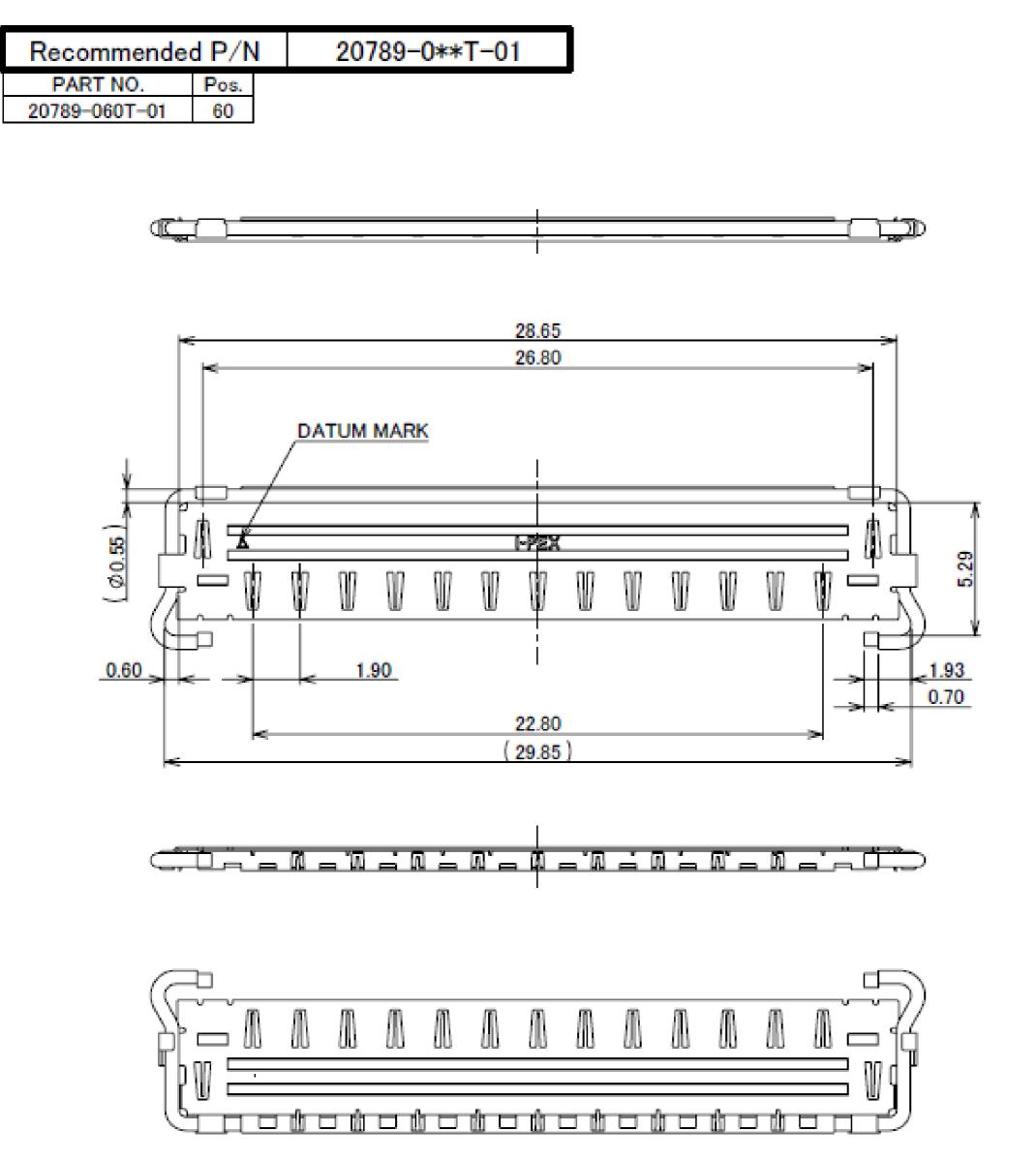


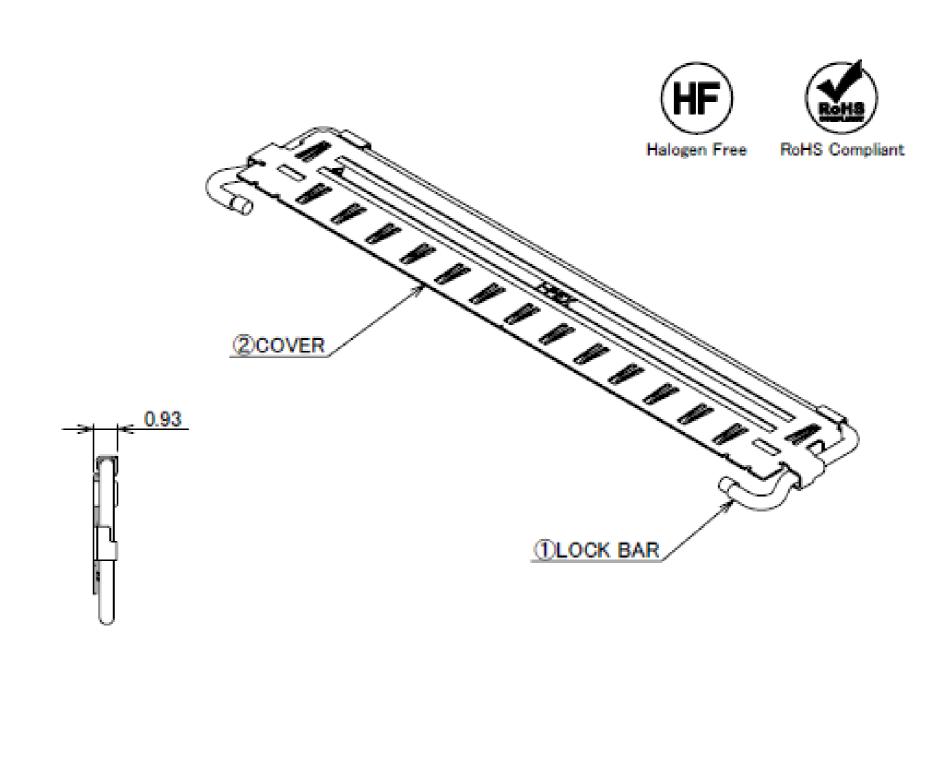
①SHELL-A

	1	SHELL-A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
N	10.	DISCRIPTION	MATERIAL	FINISH, REMARKS

Rev.7

#### **Lock Bar Assembly**

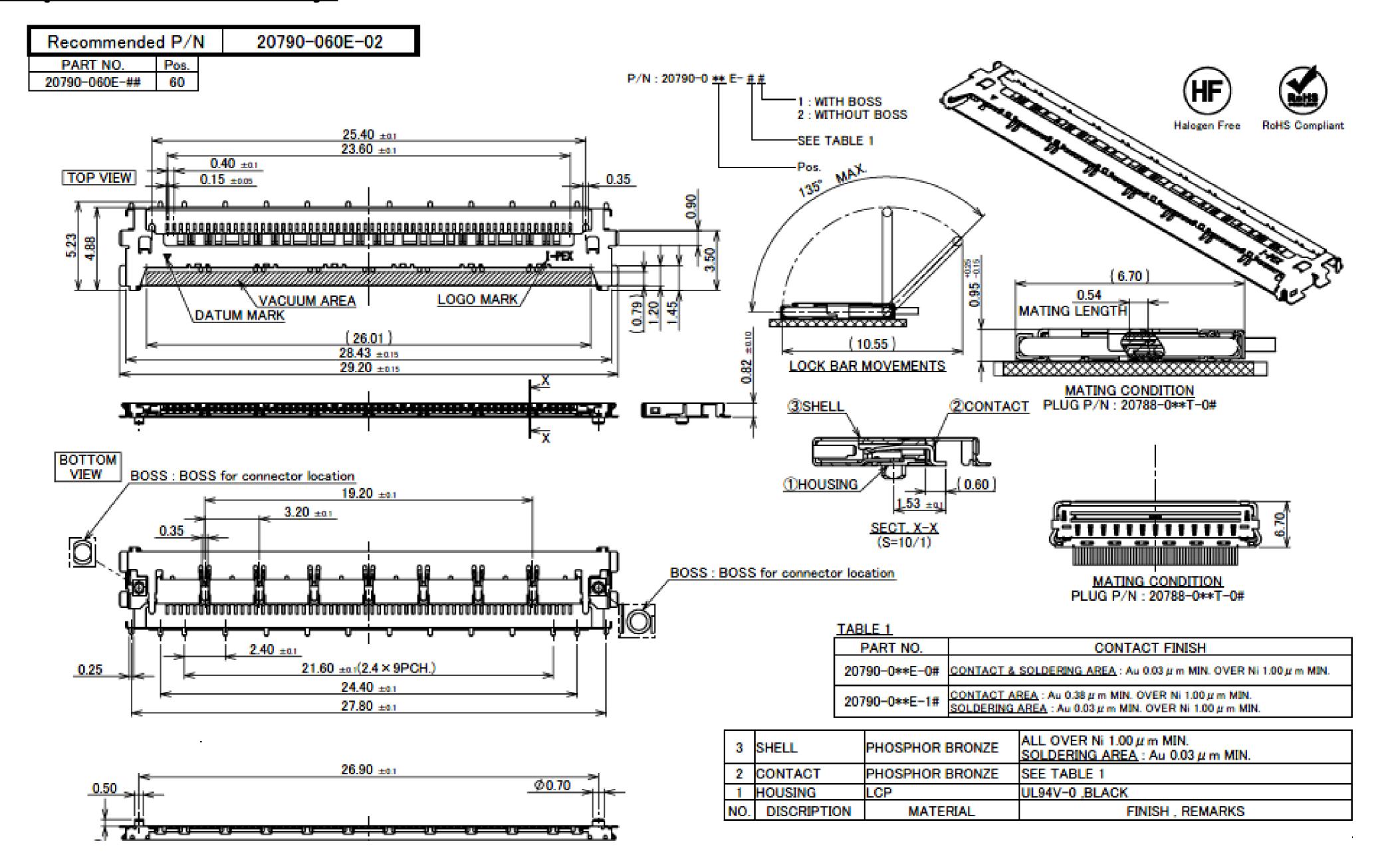




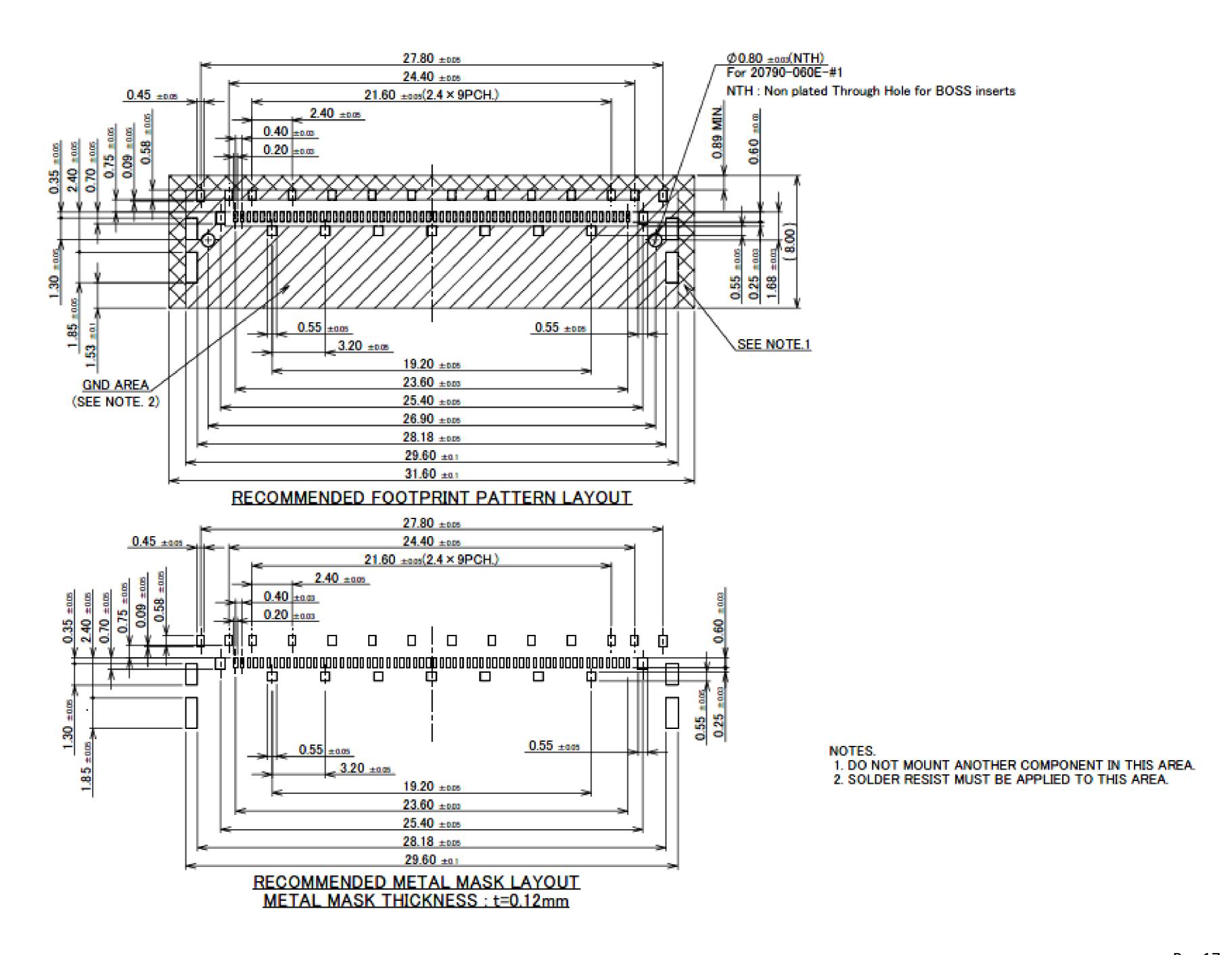
2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN.
1	LOCK BAR	SUS Ø 0.55	_
NO	D. DISCRIPTION	MATERIAL	FINISH , REMARKS



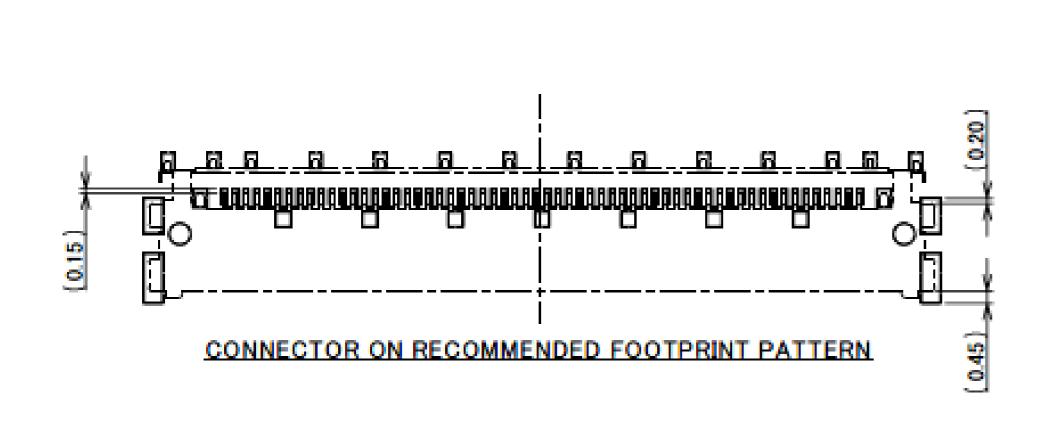
#### **Receptacle Assembly**

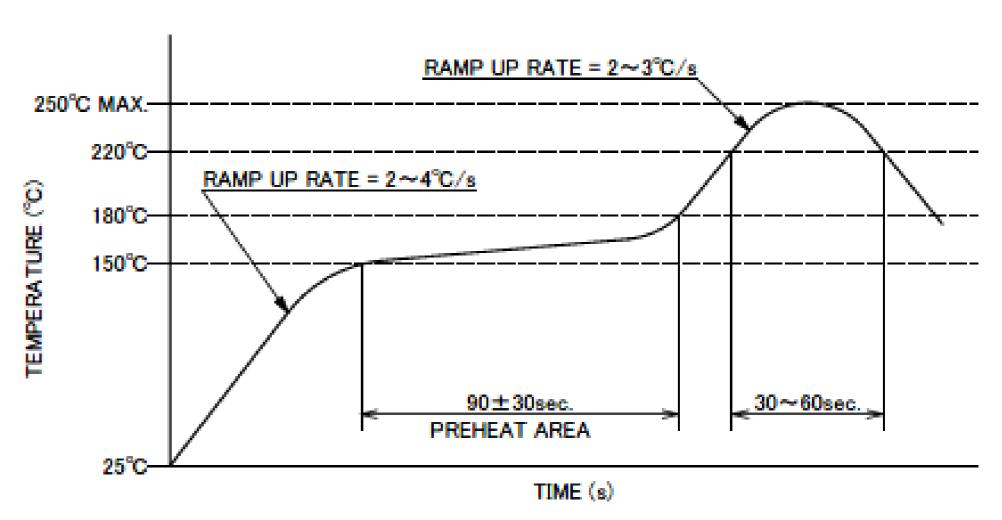


Rev.17



#### **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
	MICRO-COAXIAL CABLE: AWG# 44, 42, 40, 38, 36
APPLICABLE CABLE	DISCRETE WIRE: AWG# 36, 34
	TWINAX CABLE: AWG# 40, 42
	100V AC (PER CONTACT PIN)
RATING VOLTAGE	**THIS IS THE RATED VOLTAGE OF THE CONNECTOR.
	PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
	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
RATING AMPERAGE (FOR CONTACT)	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)
OT ETOTTING TIOMIDITT	INITIAL: 180mohm MAX.(AWG#34) / AFTER TEST: ⊿40mohm MAX.
	275mohm MAX.(AWG#34) / AT TER TEST : 2140momm MAX.
CONTACT RESISTANCE	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***



Custom
Connectors
Available

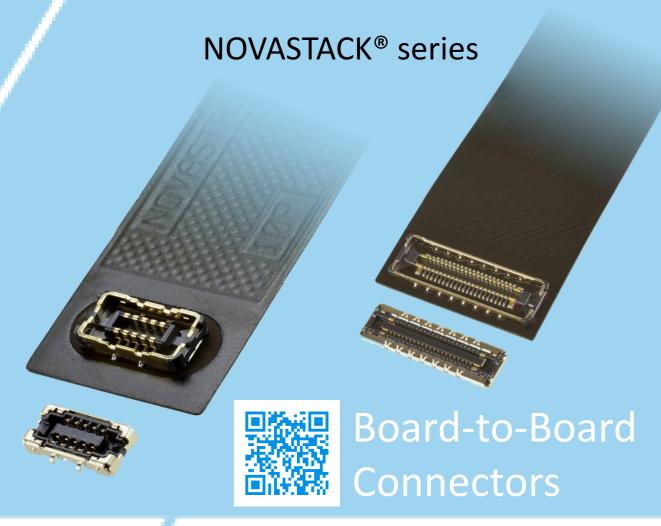




AP series

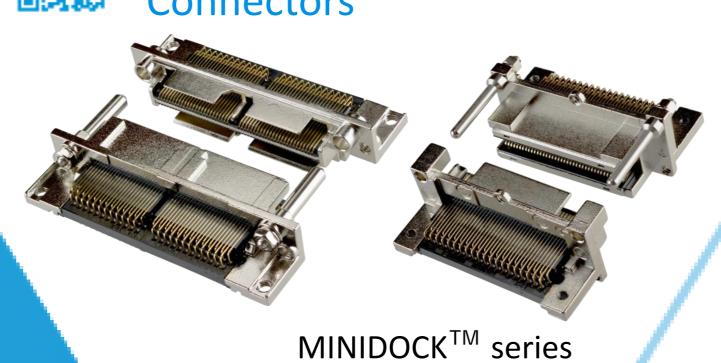






MINIFLEX® series















**EVAFLEX®** series

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