CABLINE®-CA II PLUS

Fully-shielded with mechanical lock, Suitable for high-data-rate transfer (32 Gbps/lane), 0.4 mm pitch, Horizontal mating type micro-coaxial connector

*For higher data rate up to 64 Gbps PAM4, please review CABLINE-CA IIP PLUS harness solution that mates to current CABLINE-CA II PLUS receptacle (20790-060E-01/-02).

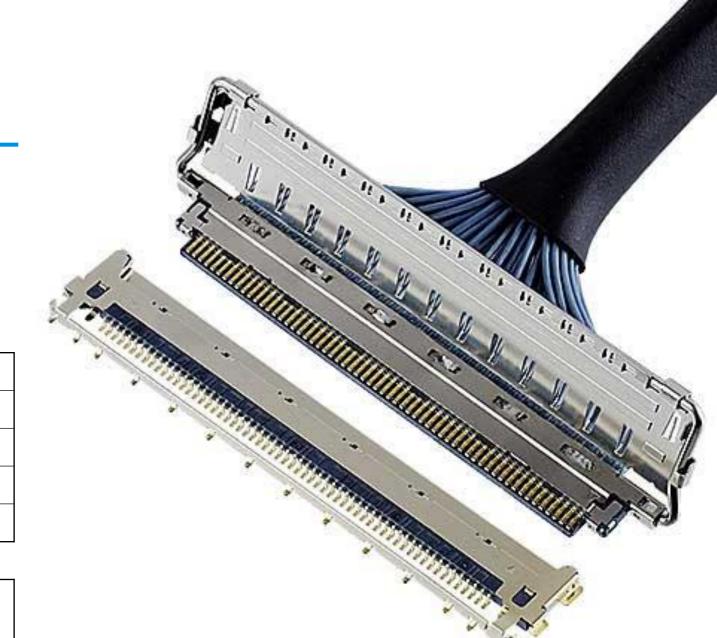
Product Specifications:

Todact Specifications.			
Mating type		Horizontal	
Board Pitch (mm) Wiping Length (mm)		0.4	
		0.54	
	Height	1.2 max. with cover	
Mated size (mm)	Width	Formula: 6.95 + (0.4*?p)	
(111111)	Depth	6.7	
Din Counts	Range	Up to 60	
Pin Counts	Available	60	

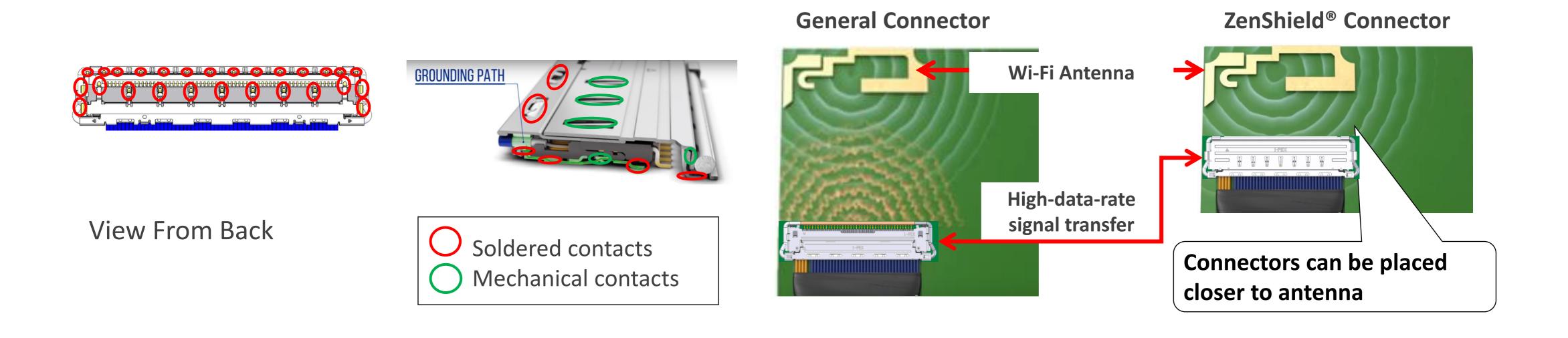
Applicable Cable Size:				
Maximum O.D. (mm)	0.4			
Micro-Coaxial	45 ohm: #38 or smaller			
for Signal (AWG)	50 ohm: #40 or smaller			
Twinax (AWG)	#40, #42			
Discrete (AWG)	#34 or smaller			

Applicable Standards (Reference Only):

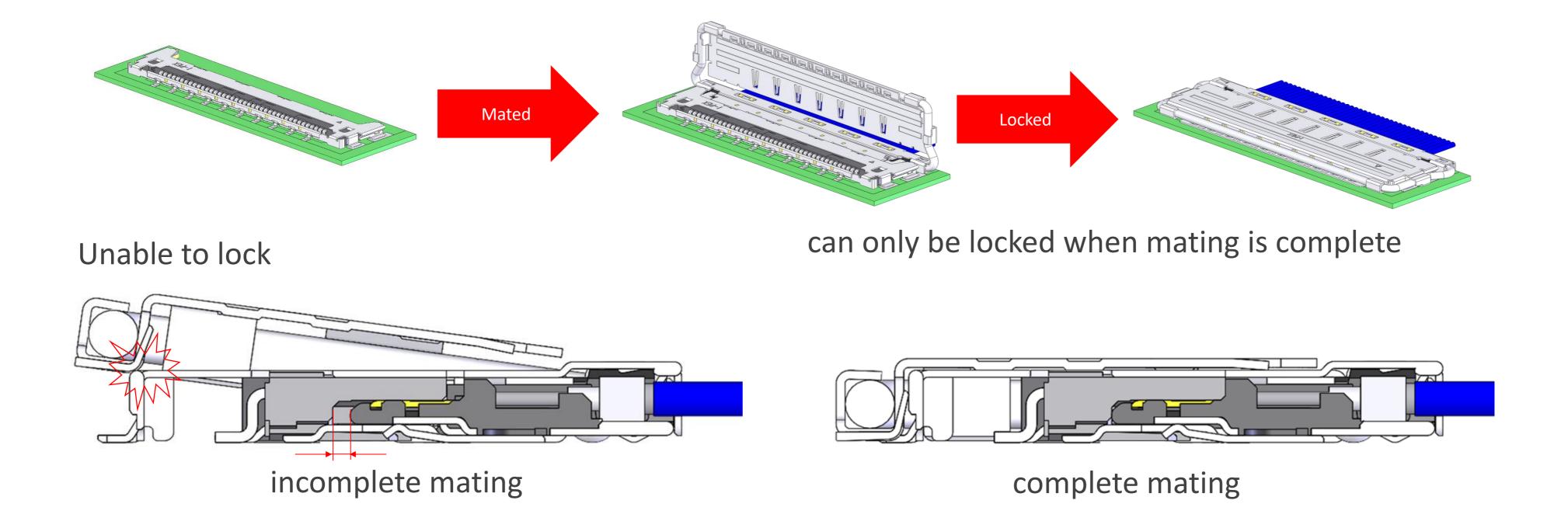
32 Gbps/ Lane, USB4 Gen4 (40 Gbps/ Lane PAM3) Display Port UHBR20 (20 Gbps/Lane),



ZenShield® fully-shielded with multi-point grounds is ideal for EMC solutions



Mechanical locking cover prevents incomplete mating and back-out/unmating



High-data-rate transfer, ideal for 32 Gbps/lane applications

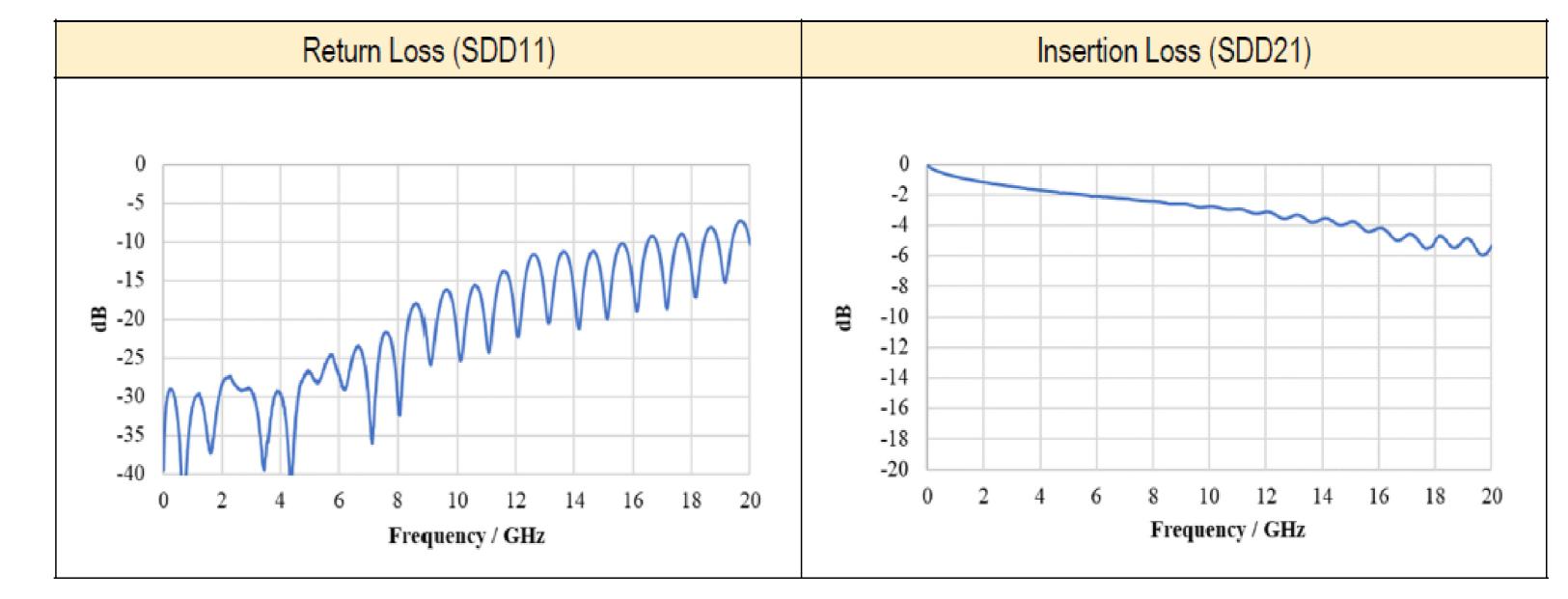
Measurement results

Connector: CABLINE-CA II 40P

Cable: Micro-coaxial cable

AWG #40, 45ohm, Length: 100 mm

Pin Assignment: GSSGSSG



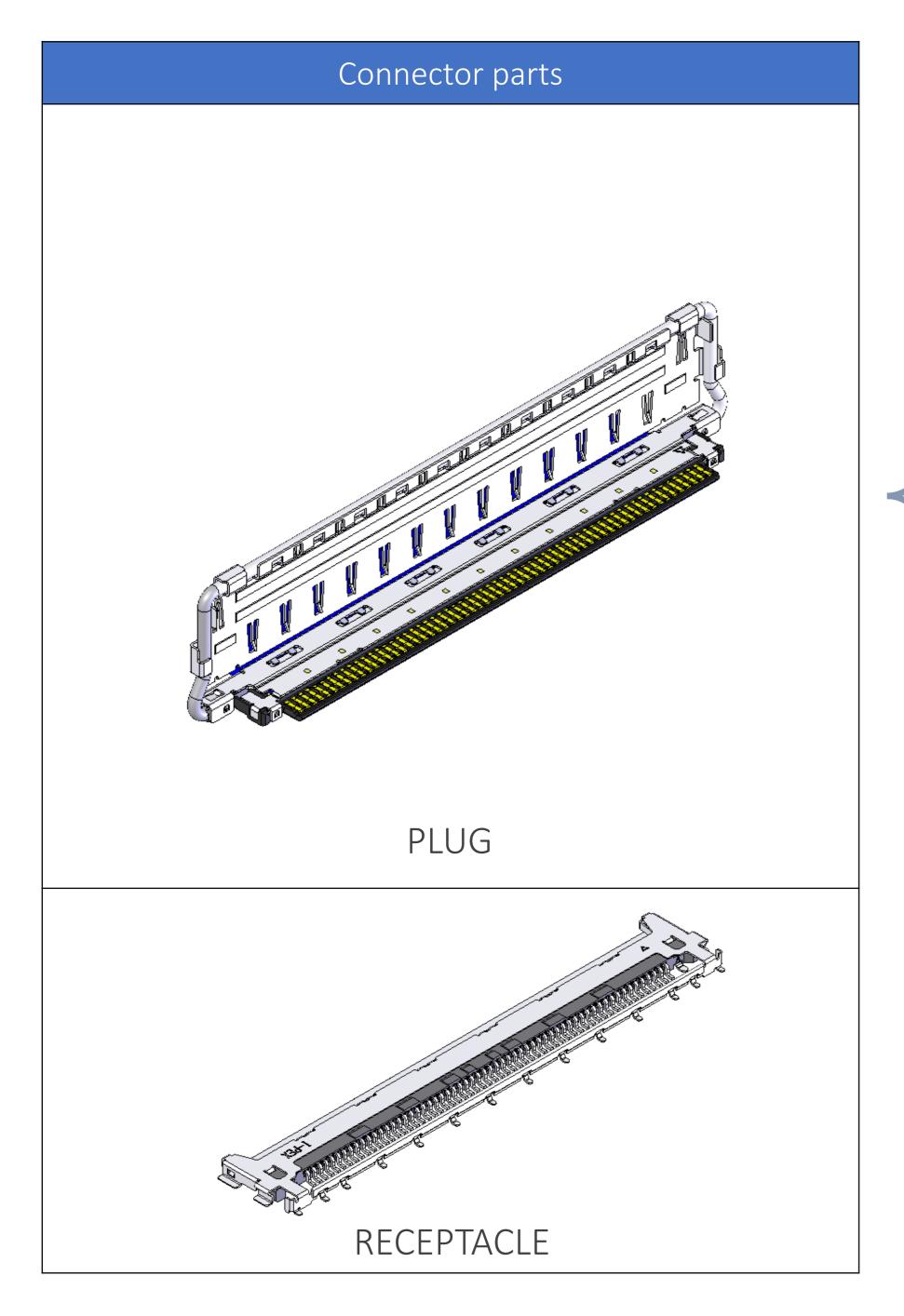


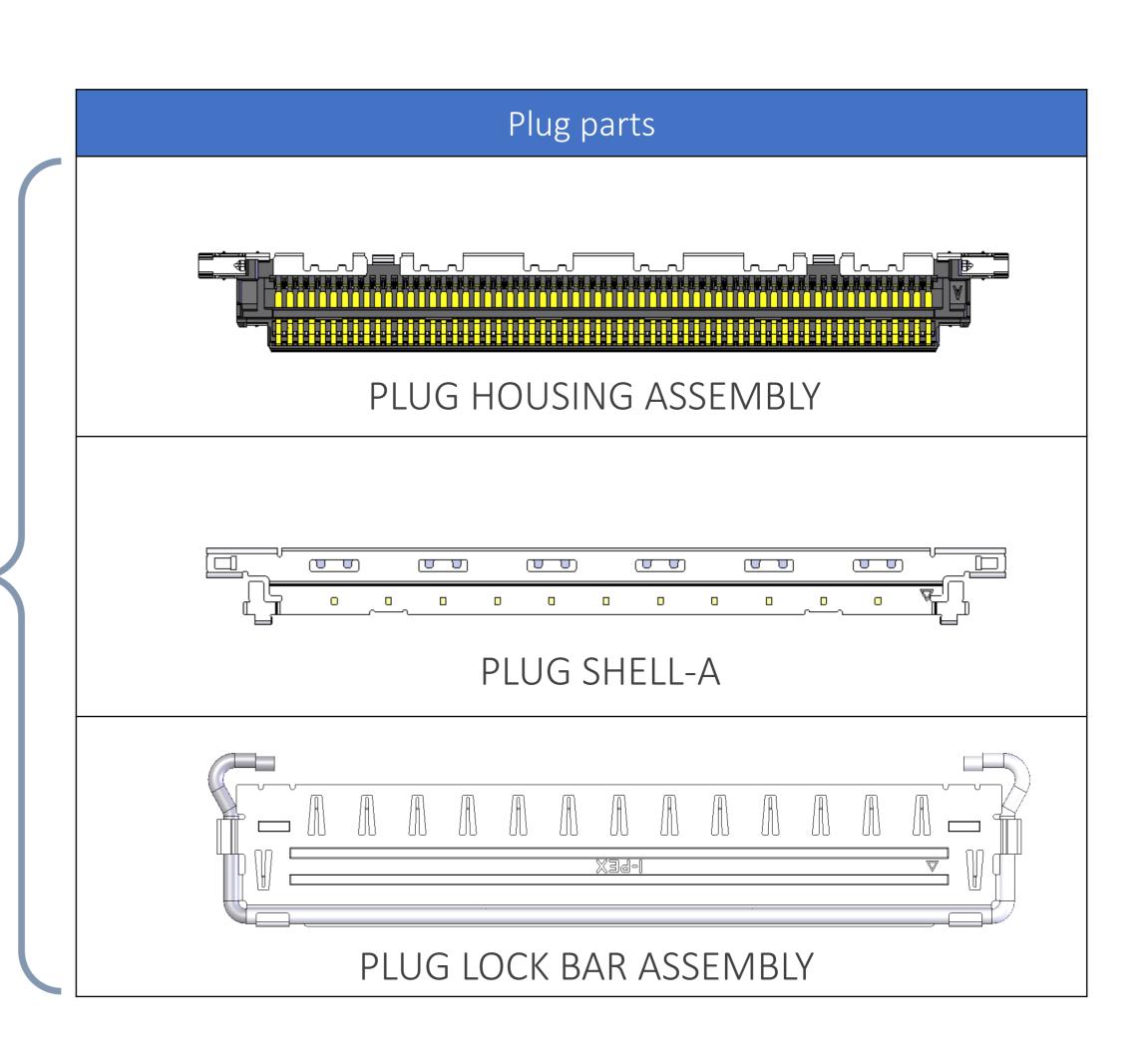
^{*} Please inquire for pin counts not listed or outside of the pin count range.

^{*20, 30, 40, 50}p are also available with CABLINE®-CA II (narrow space type).

Component Parts Details

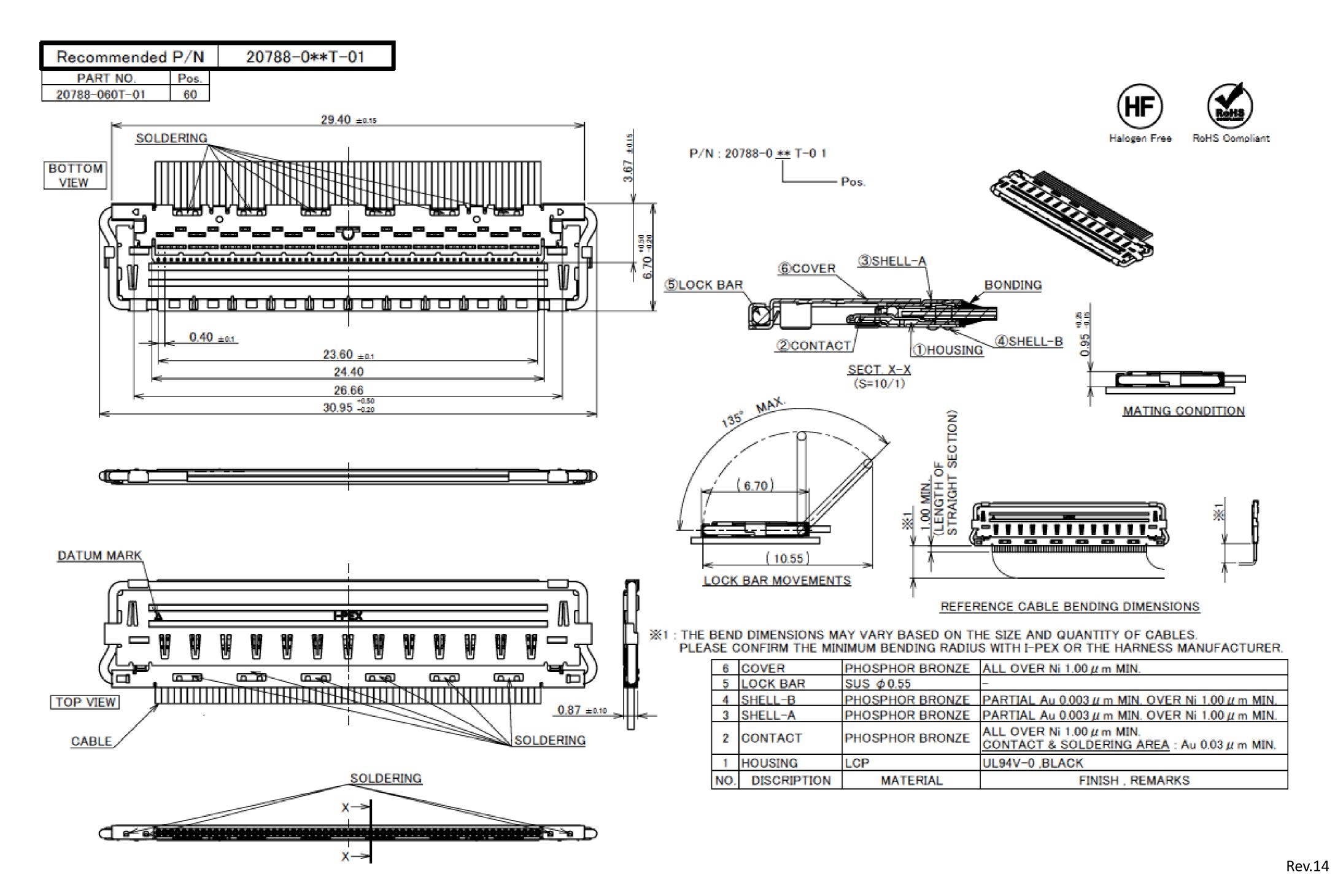
Component Parts

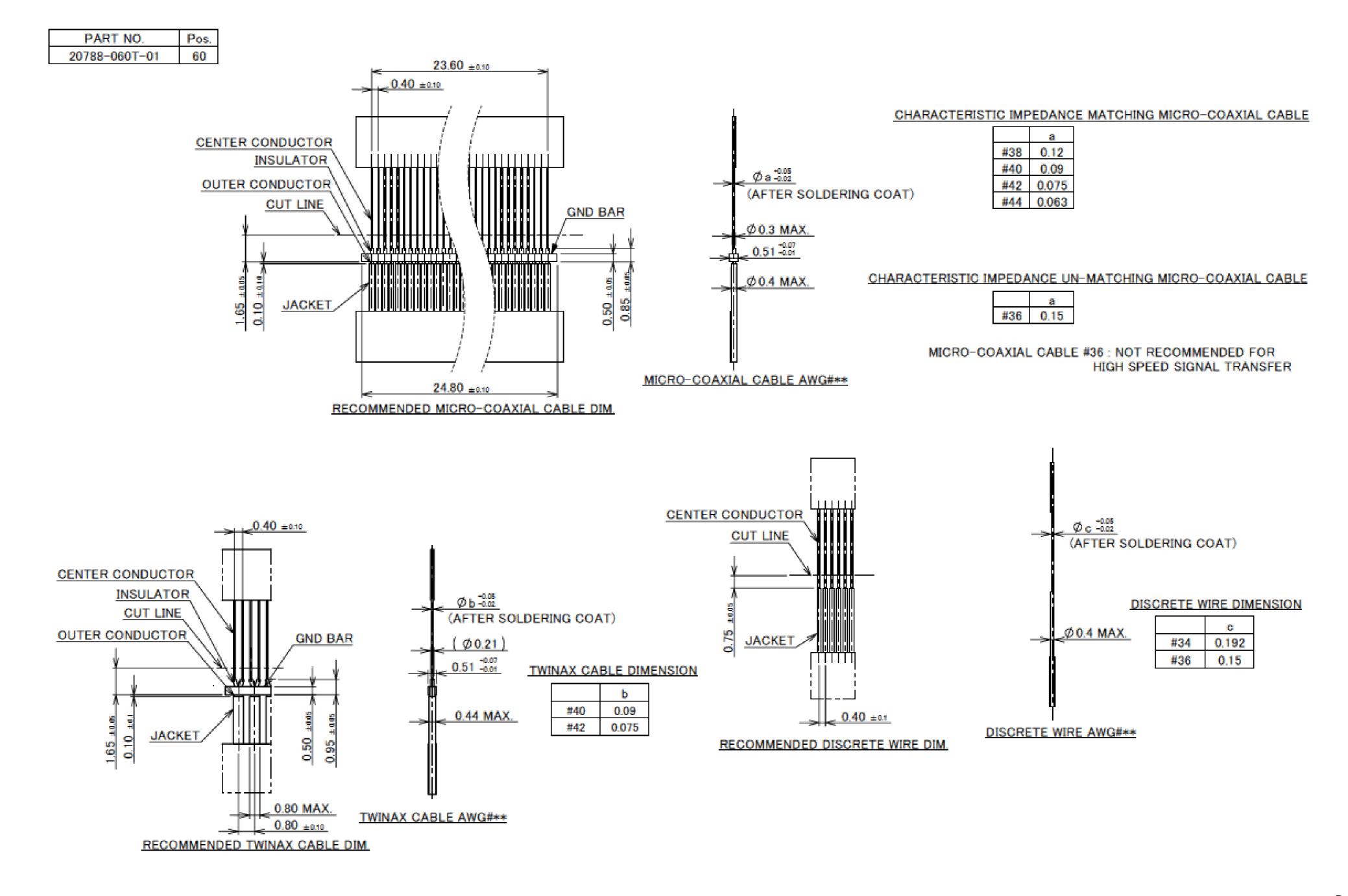






Plug for Cable Assembly





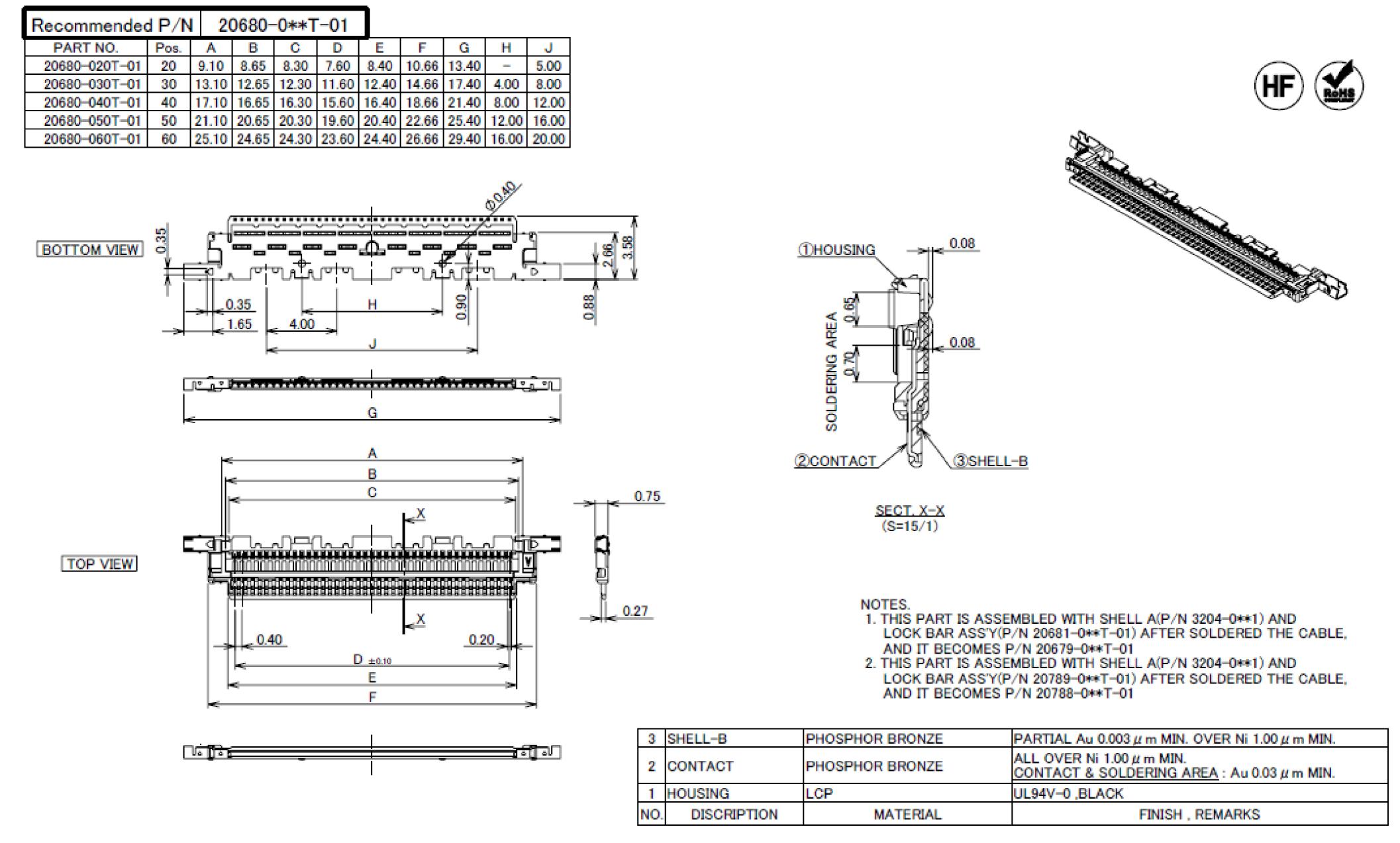


Plug for Cable Assembly

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	MAY AFFECTED BY ACTUAL SITUATION	
	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)		
UN-MATING FORCE (INITIAL / AFTER 30 CYCLES)		
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

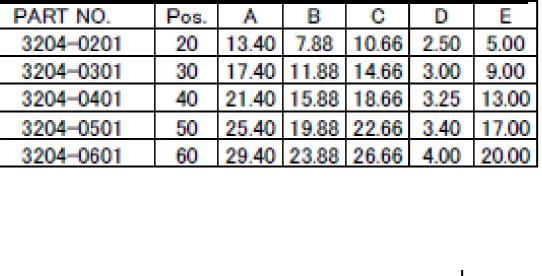
Plug Housing Assembly

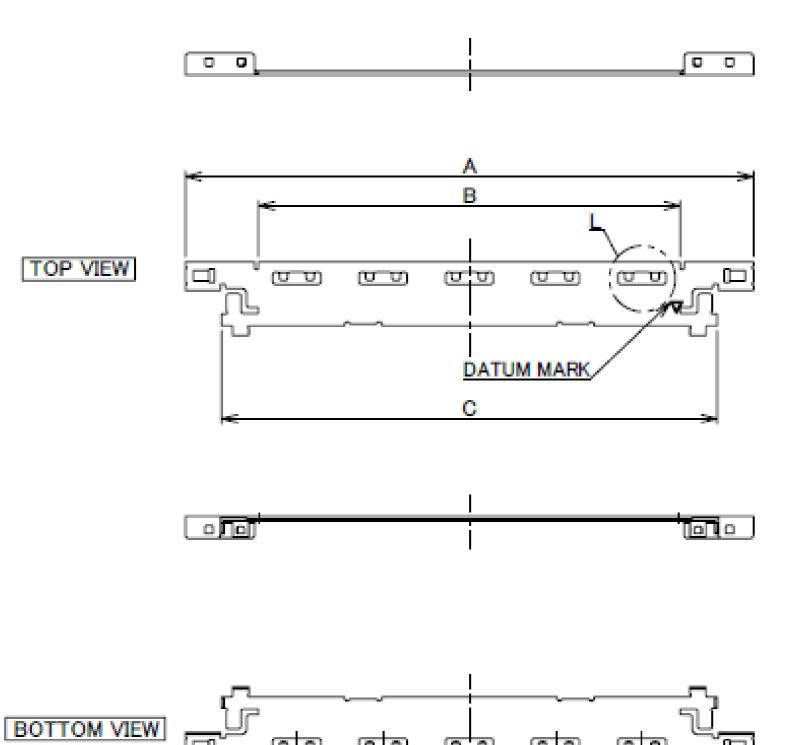




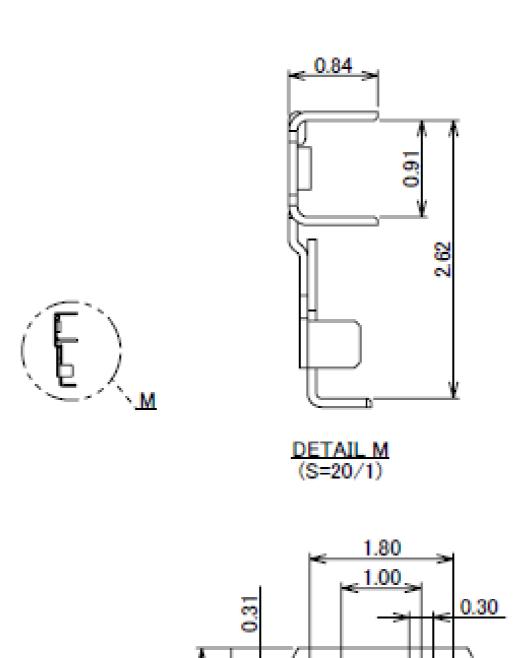
Plug Shell-A

Recommended	d P/N	1	32	04-0×	* *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

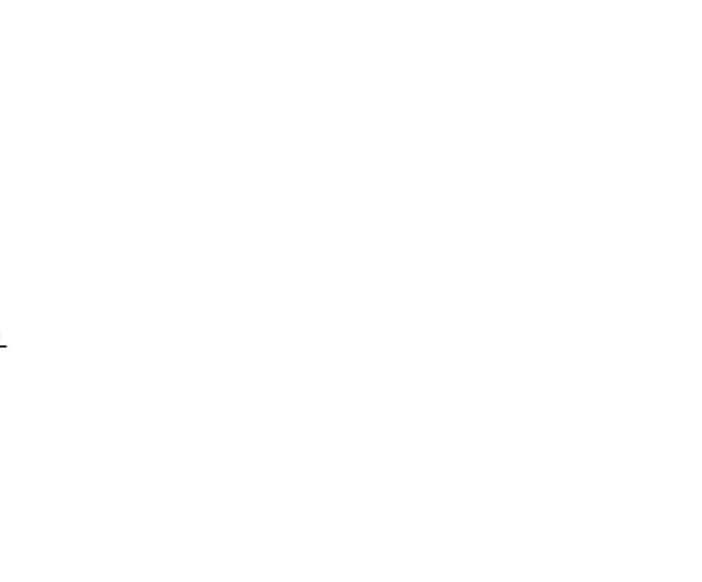




 $E \{=D \times (n-1)\}$



DETAIL L (S=15/1)

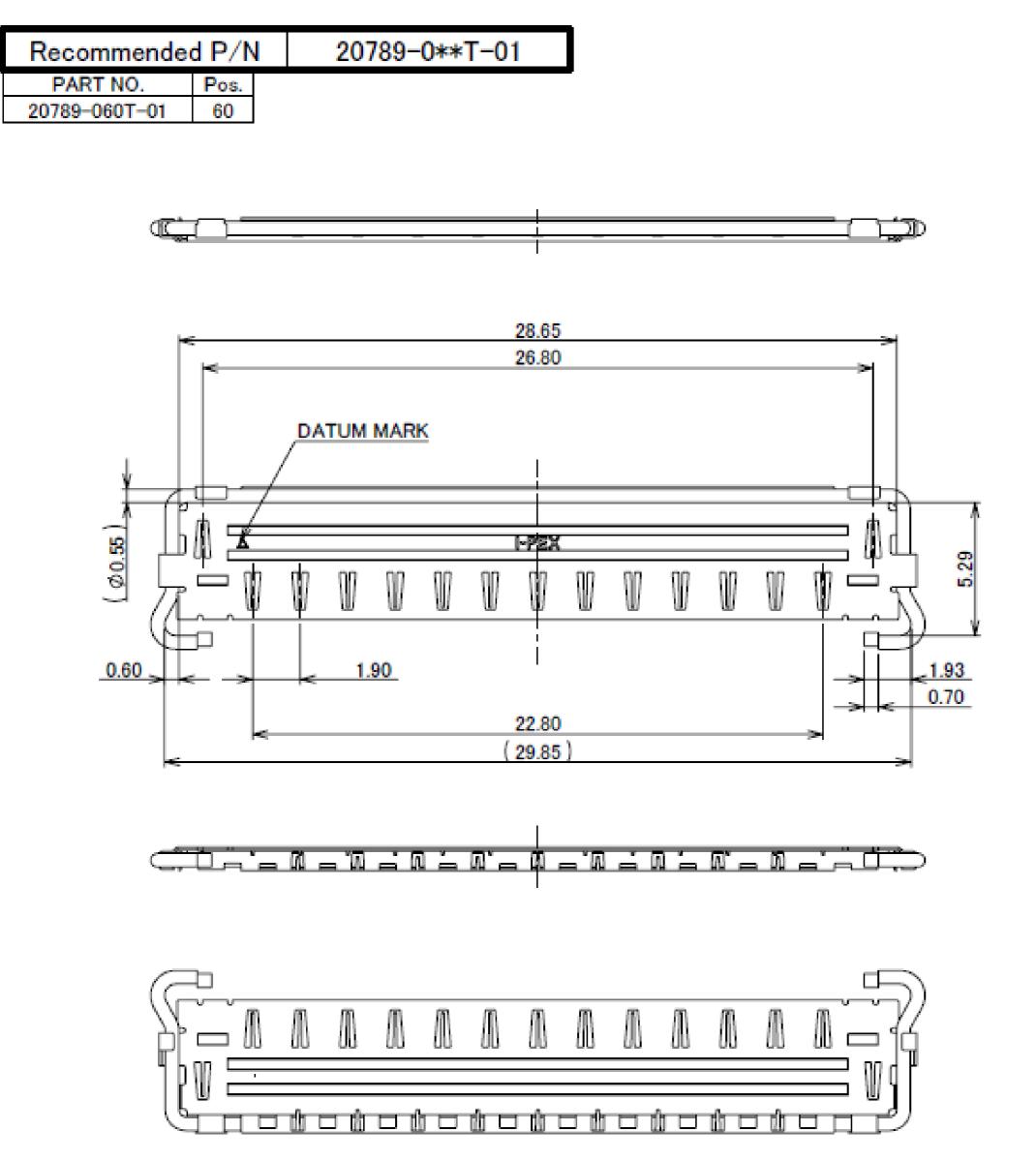


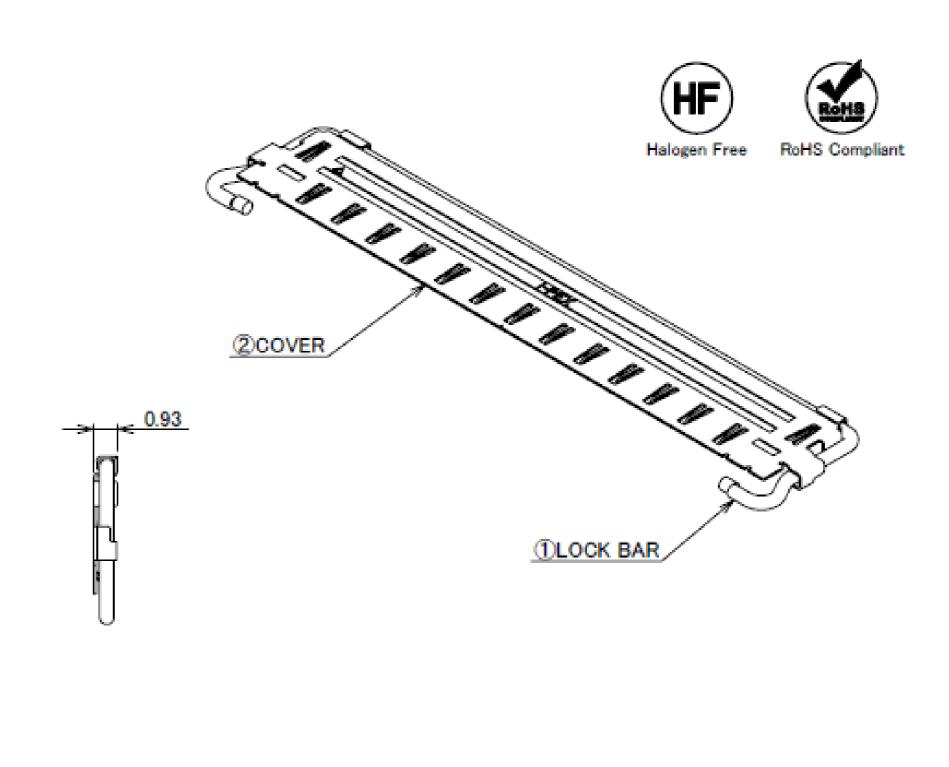
①SHELL-A

	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

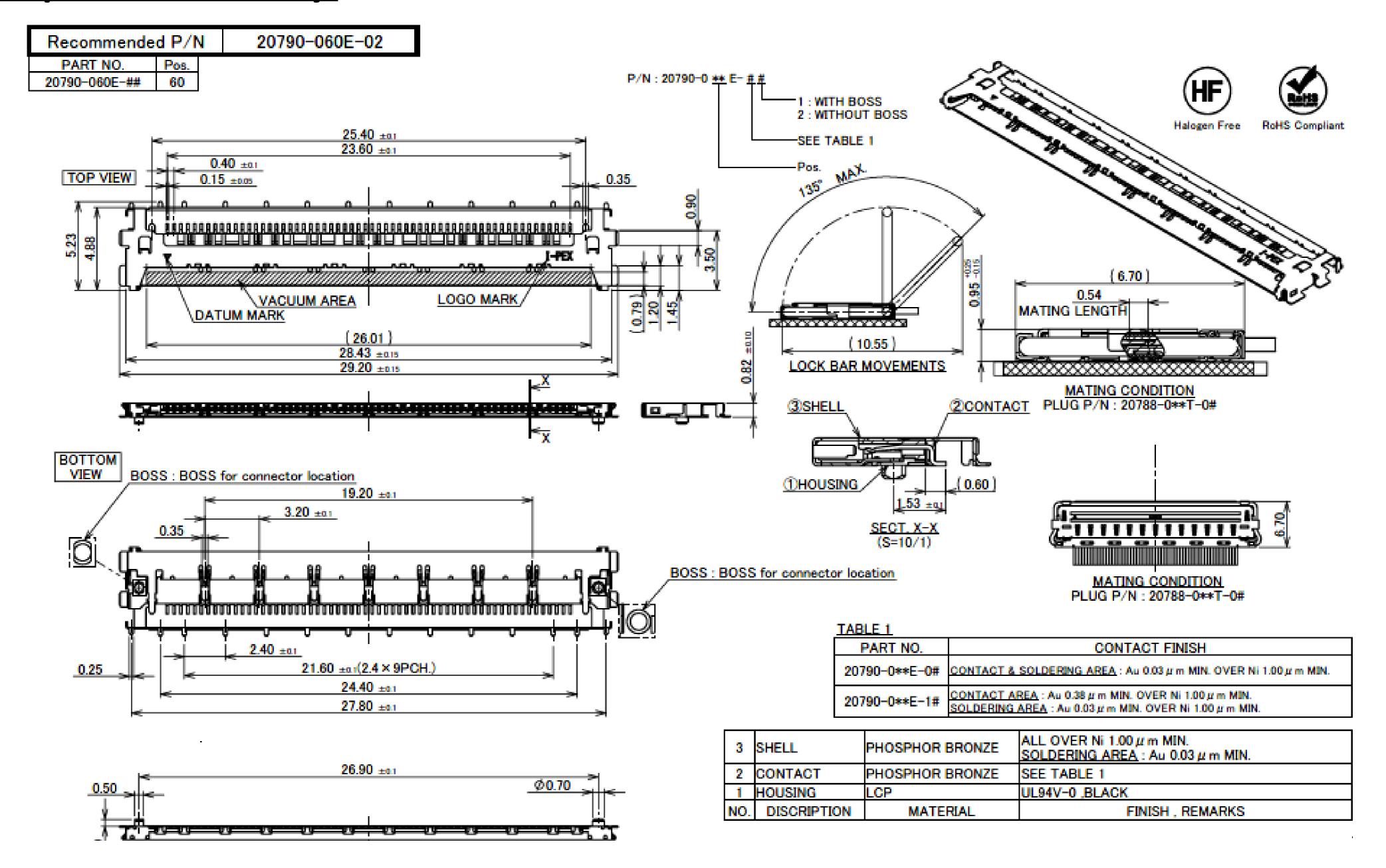




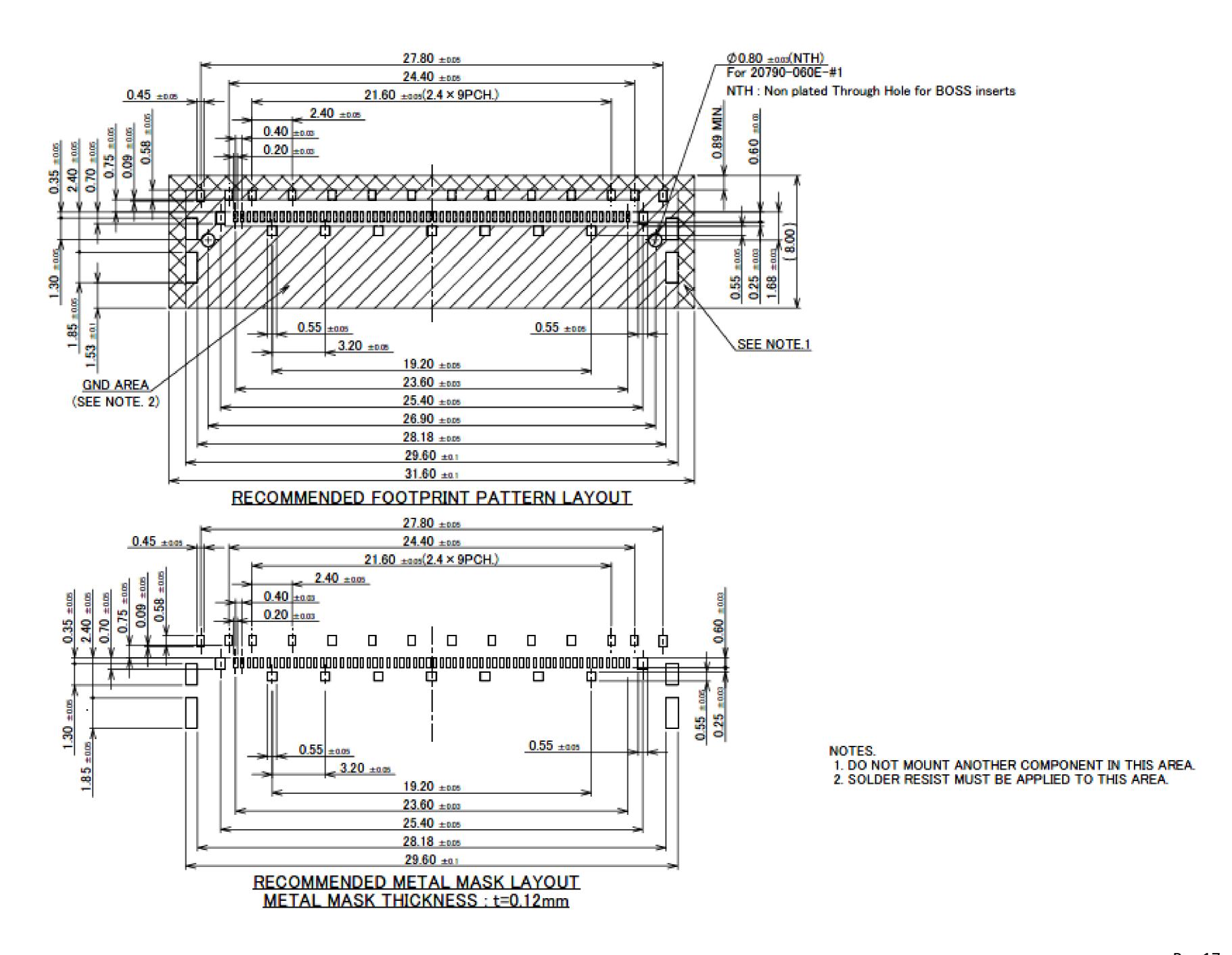
2	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN.
1	LOCK BAR	SUS Ø 0.55	_
NO	D. DISCRIPTION	MATERIAL	FINISH , REMARKS



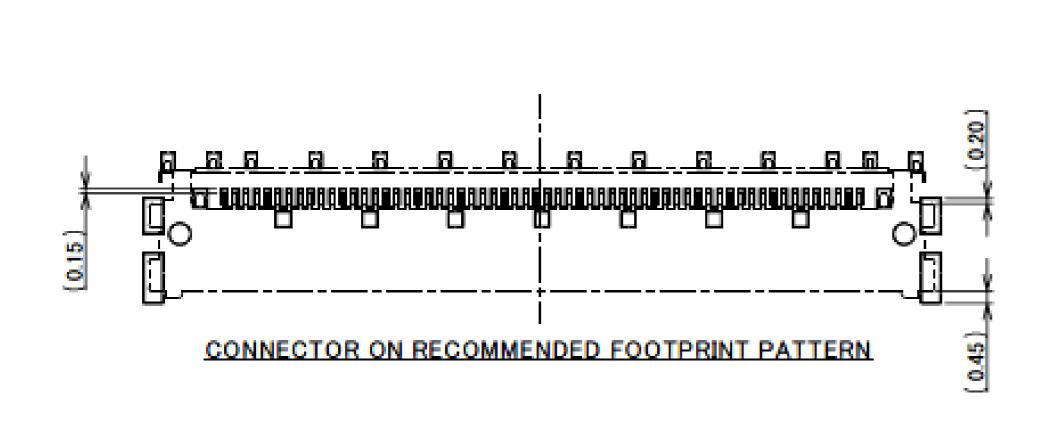
Receptacle Assembly

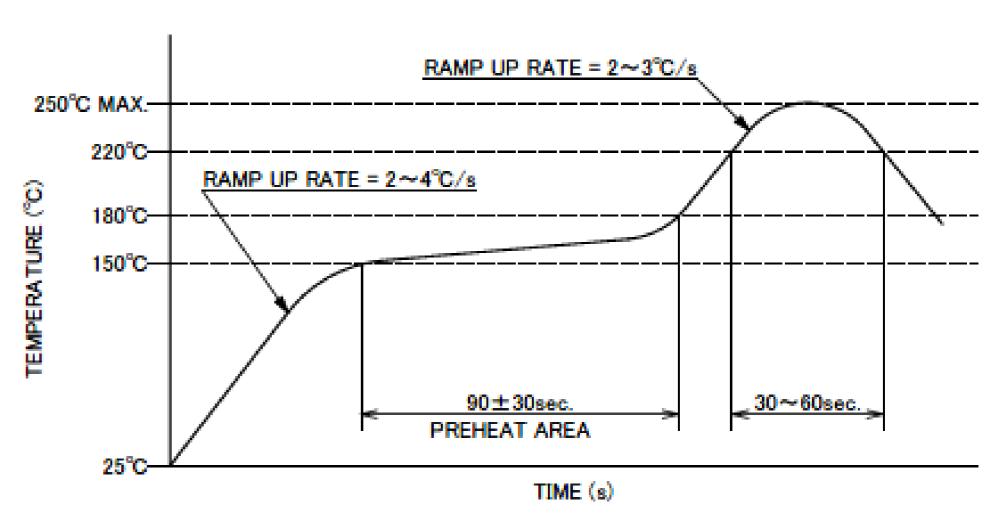


Rev.17



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)	
OF ERATING HOMIDIT	INITIAL: 180mohm MAX.(AWG#34) / AFTER TEST: ⊿40mohm MAX.	
	275mohm MAX.(AWG#34) / AT TER TEST : 2140momm 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.	
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***	

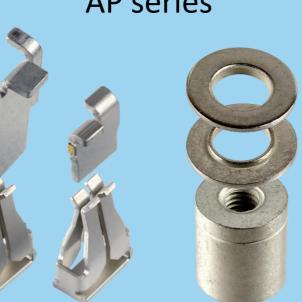


Custom
Connectors
Available

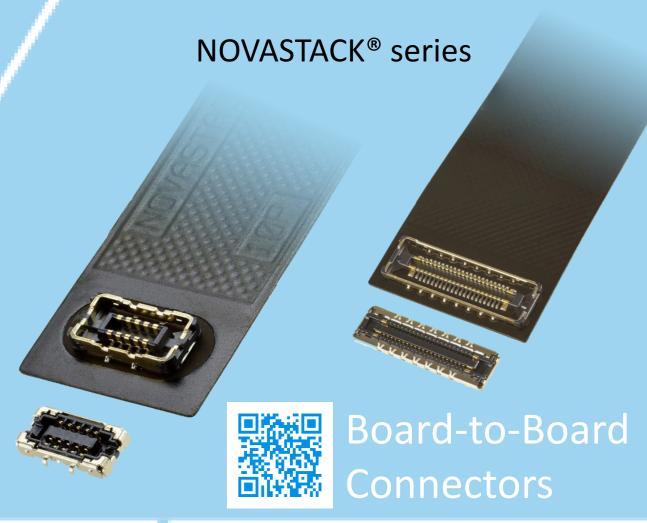




AP series







MINIFLEX® series



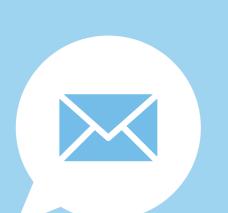












EVAFLEX® series

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