FPLTM II

高速數據傳輸(12 Gbps/lane), 供電用途最大支持搭載AWG#32電子線,多點 接地抗噪設計,垂直插拔方式,0.5mm 間距,極細同軸線連接器

Product Specifications:					
Mating	type	Right angle vertical			
Board Pitc	h (mm)	0.5			
Wiping Len	gth (mm)	0.51			
	Height	2.2 +/- 0.2			
Mated size	Width	Formula: 5.8 + (0.5*?p)			
(mm)	Depth	6.1			
	Range	Up to 50			
Pin Counts	Available	30, 40, 50			

*若有規格外	Pin數需求.	請與當地負	- 青業務窗□	聯繫。

Maximum O.D. (mm)	0.5
Micro-Coaxial	45 ohm: #36 or smaller
for Signal (AWG)	50 ohm: #38 or smaller
Twinax (AWG)	#40
Discrete (AWG)	#32 or smaller





高速率傳輸, 12 Gbps/lane應用的理想選擇

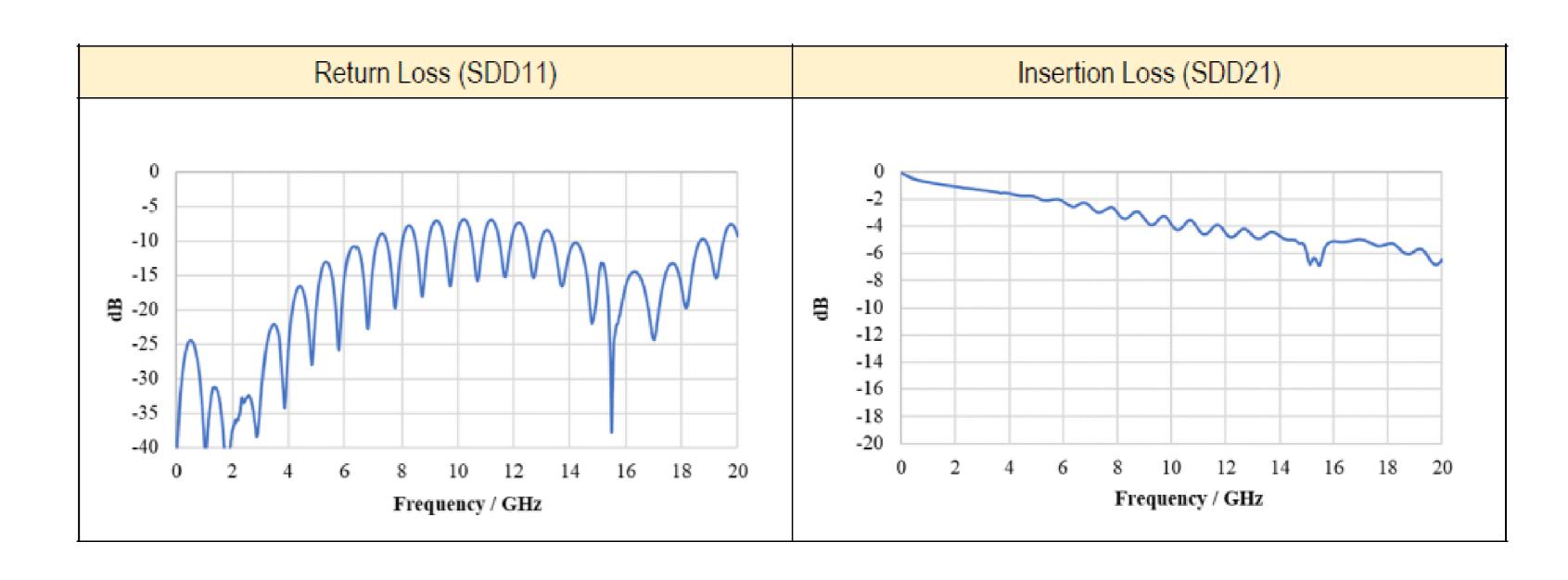
Measurement results

Connector: FPL II 40P

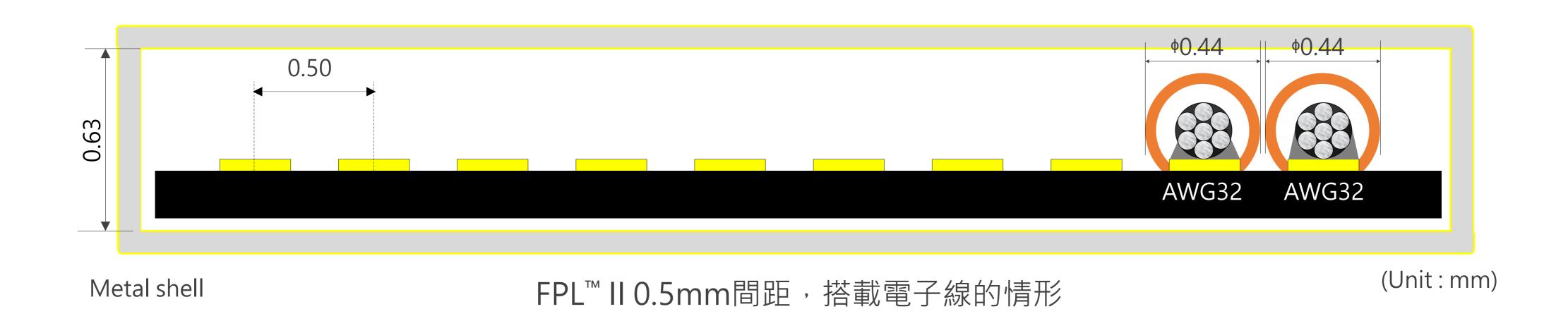
Cable: Micro-coaxial cable

AWG #40, 50ohm, Length: 100 mm

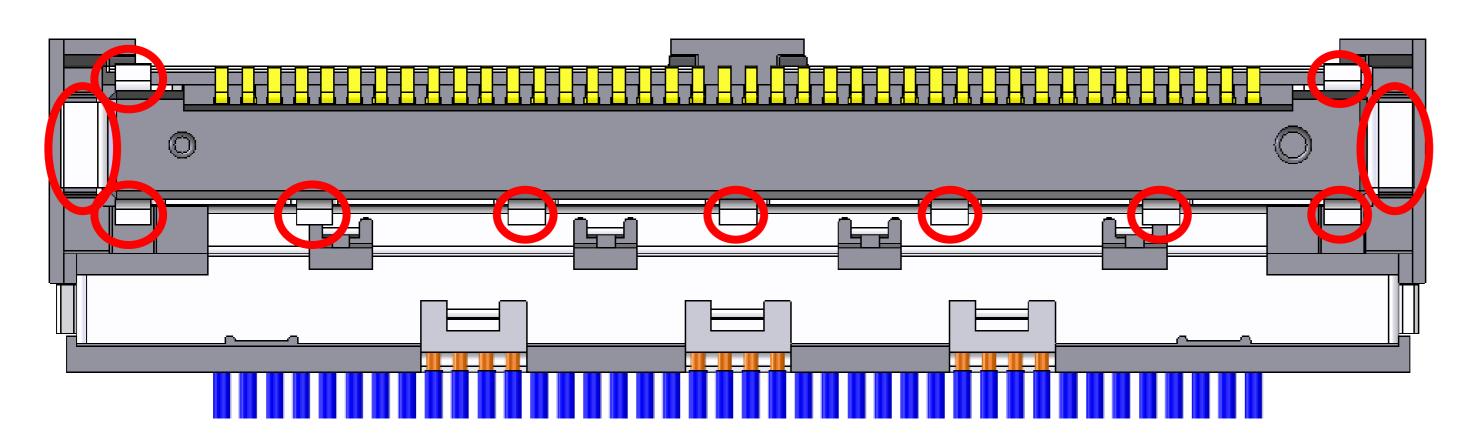
Pin Assignment: GSSGSSG



一供電用途最大支持搭載AWG#32電子線



多點接地設計,有效屏蔽電磁波干擾



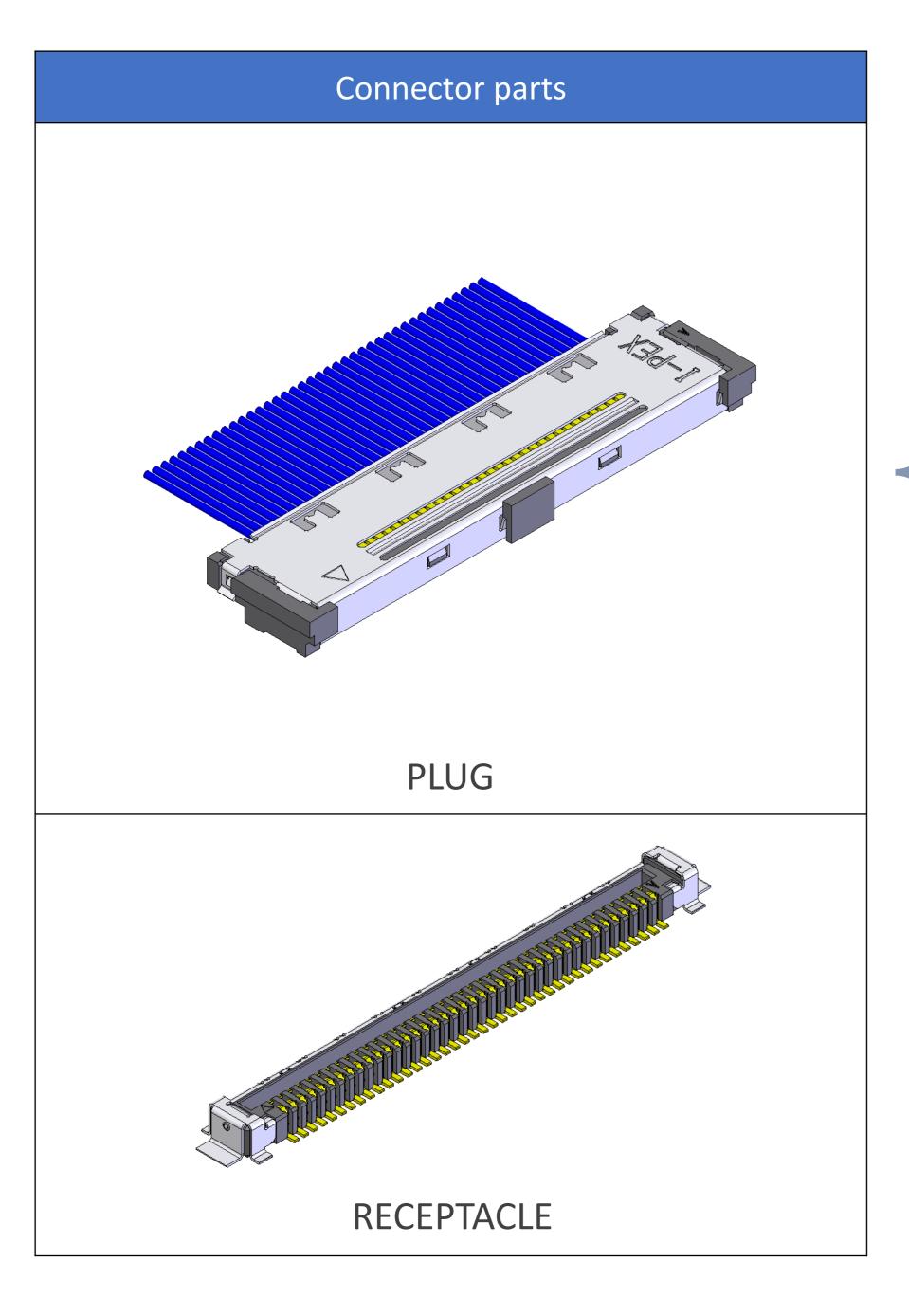
FPL™ II 30P 底部視圖

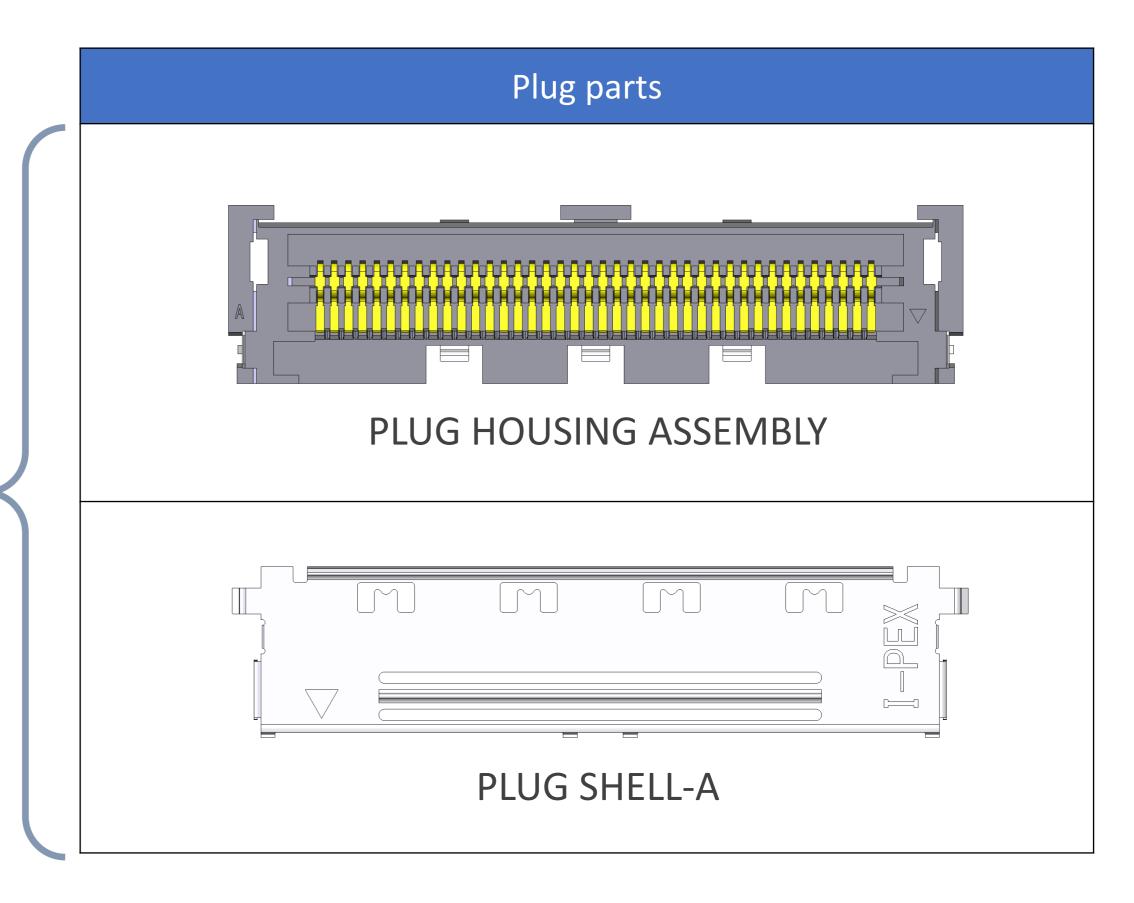




Component Parts Details

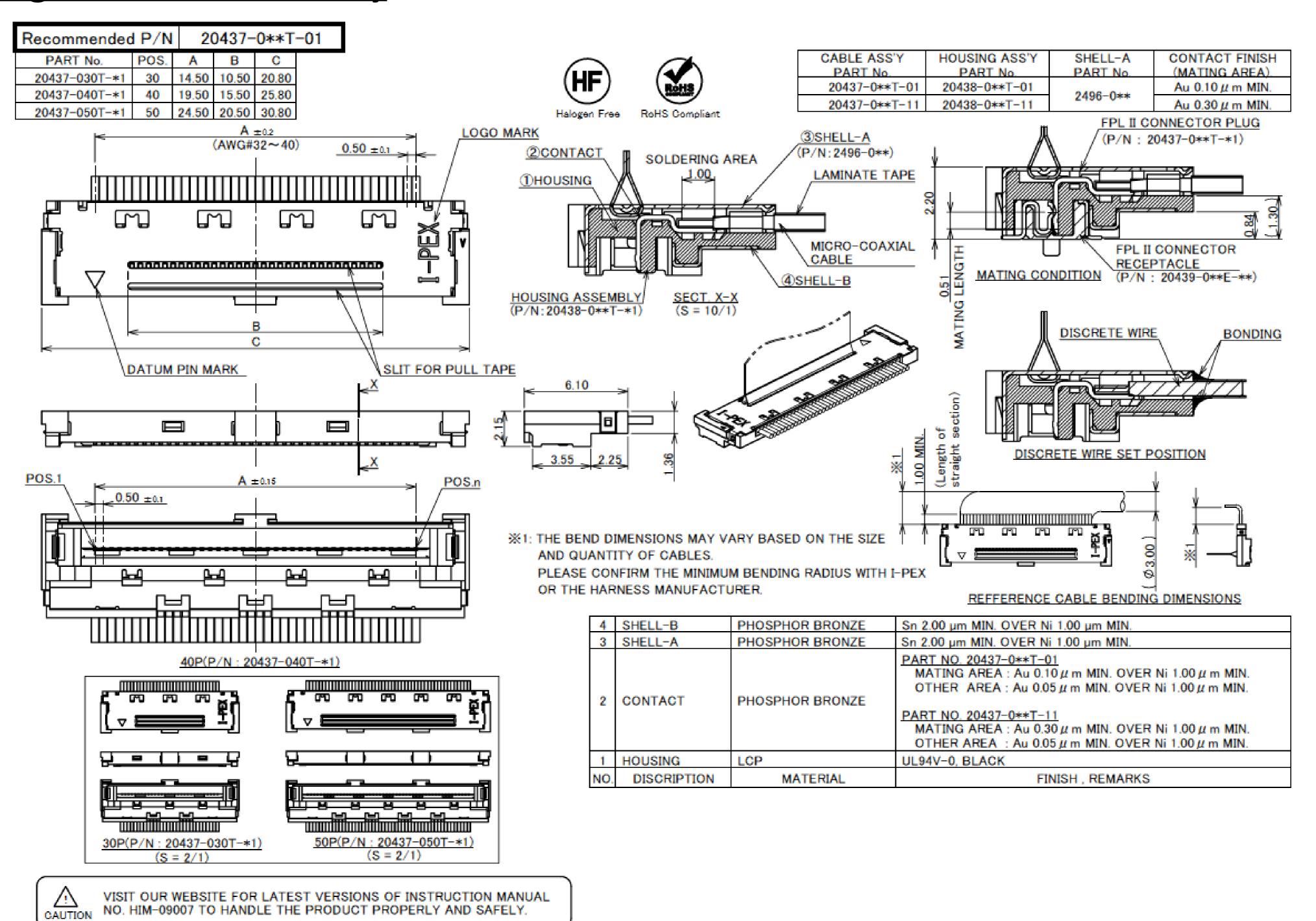
Component Parts

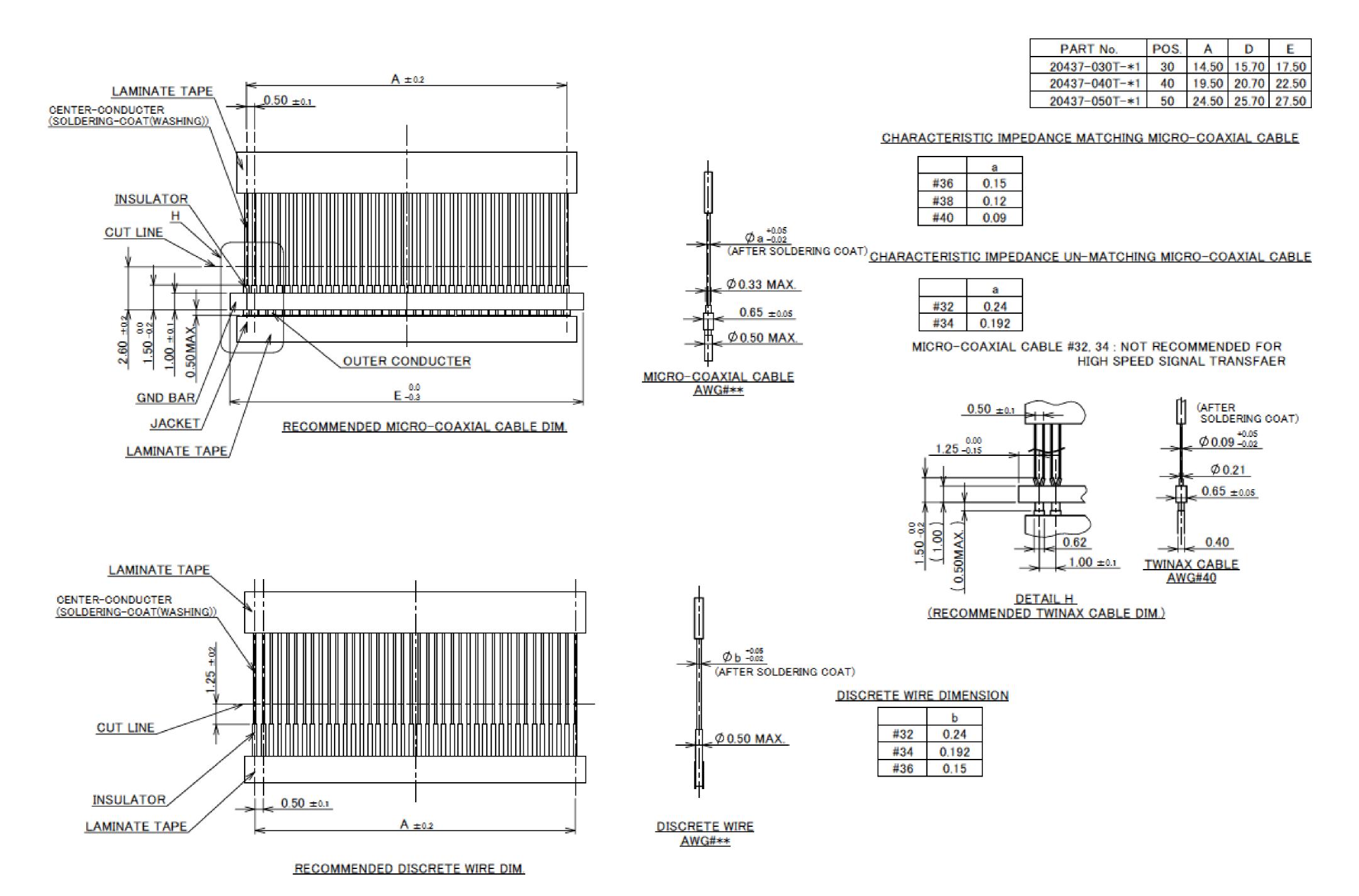






Plug for Cable Assembly





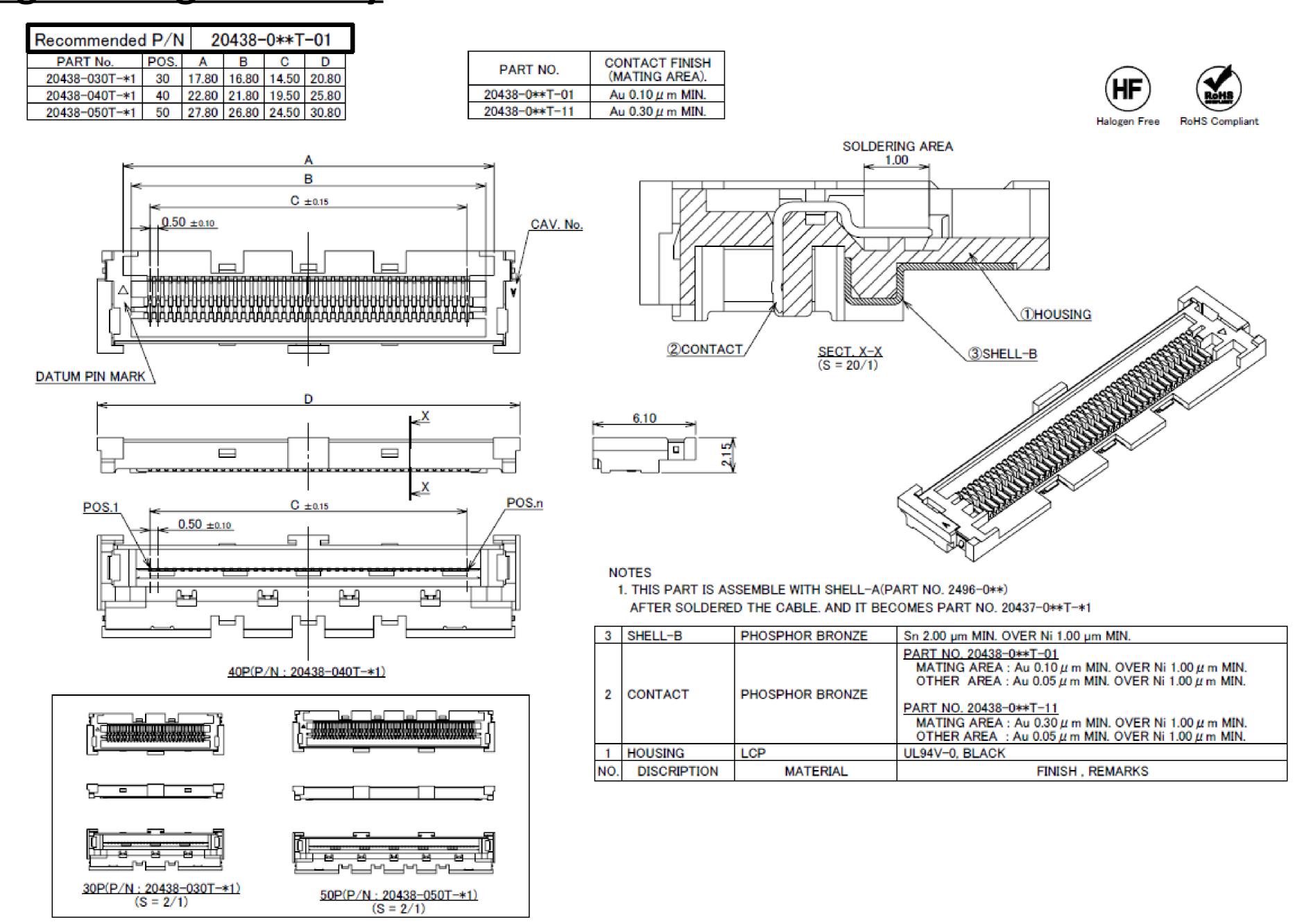


Plug for Cable Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 40, 38, 36, 34, 32 DISCRETE WIRE : AWG# 36, 34, 32 TWINAX CABLE : AWG# 40
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)	0.3A AC/DC [AWG#40] PER CONTACT PIN / UP TO 50 CONTACTS 0.6A AC/DC [AWG#38] PER CONTACT PIN / UP TO 6 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT PIN / UP TO 4 CONTACTS 1.0A AC/DC [AWG#34, 32] PER CONTACT PIN / UP TO 7 CONTACTS TESTING BY REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~~358K(~40°C~~+85°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL: 145mohm MAX.(AWG#32) / AFTER TEST:
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 TEST)	30P: 50.0N MAX. / 40P: 60.0N MAX. / 50P: 70.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P: 5.0N MIN. / 40P: 6.0N MIN. / 50P: 7.0N MIN.
CABLE RETENTION FORCE	30.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1383
TEST REPORT	TR-07048
PACKING STANDARD	PLUG HOUSING ASS'Y: 300-584 / PLUG SHELL-A: 300-585
INSTRUCTION MANUAL	HIM-09007
ASSEMBLY MANUAL	ASM-07005
APPEARANCE CRITERIA No.	QLS-A***

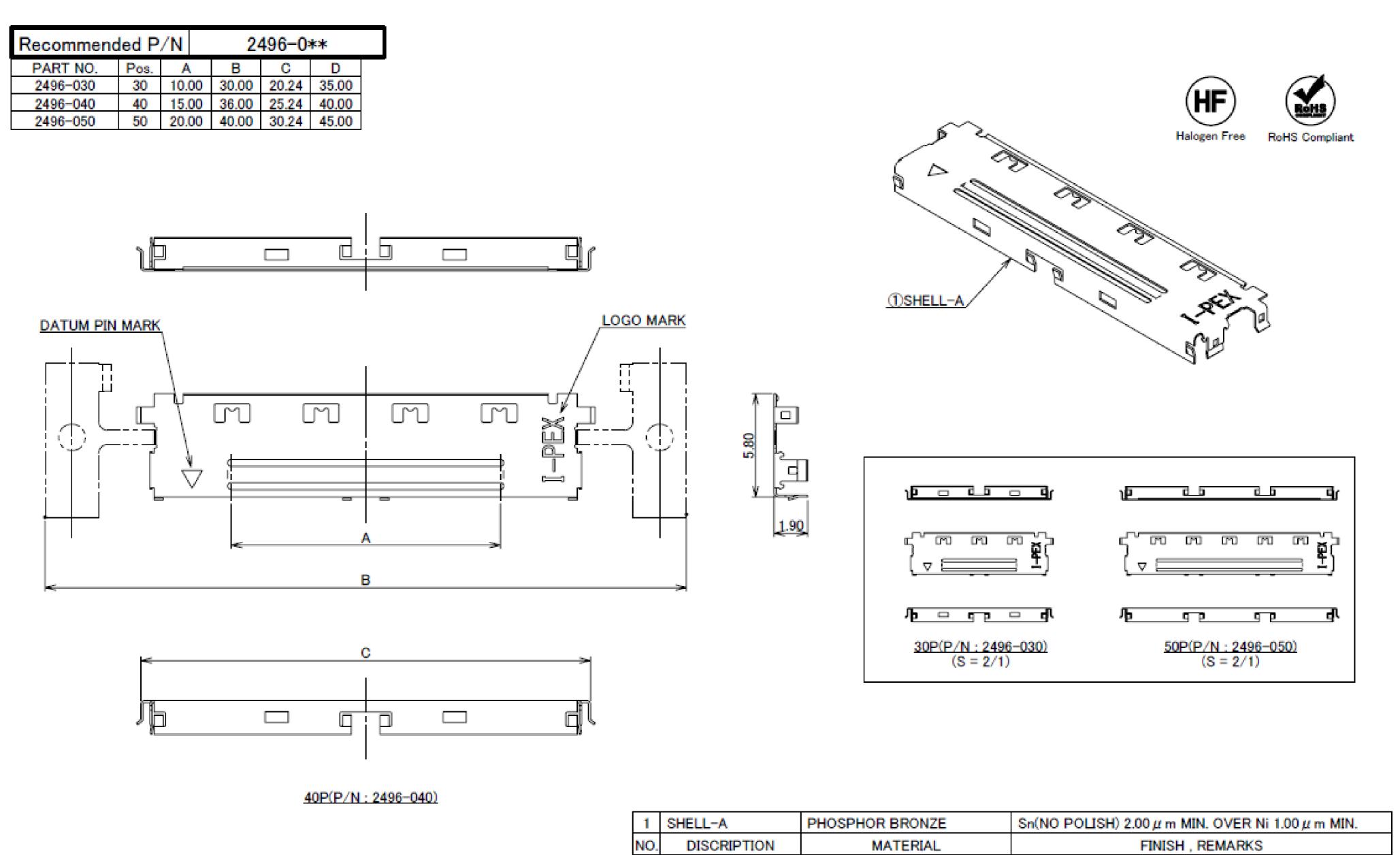
Rev.19

Plug Housing Assembly



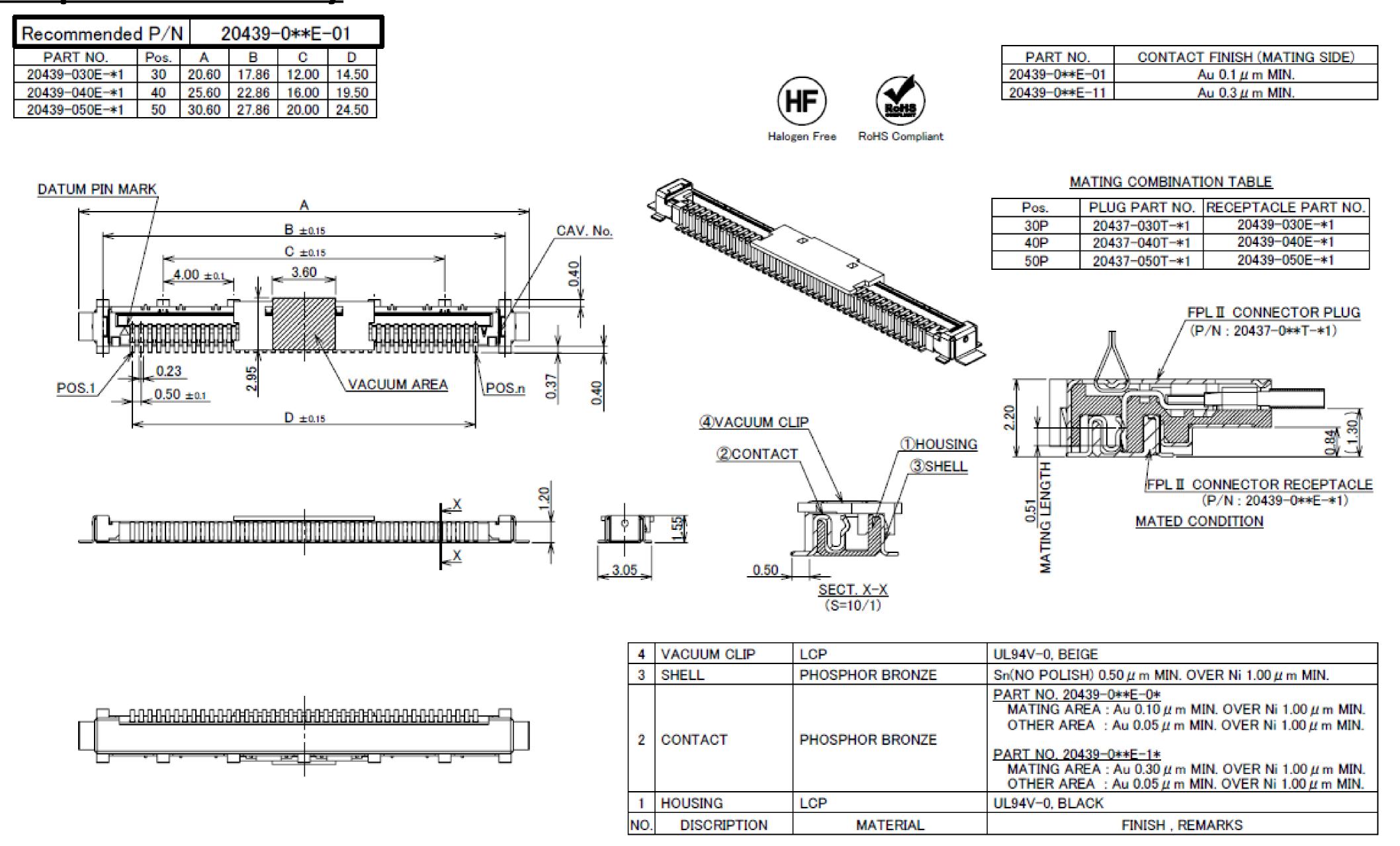


Plug Shell-A



Rev.11

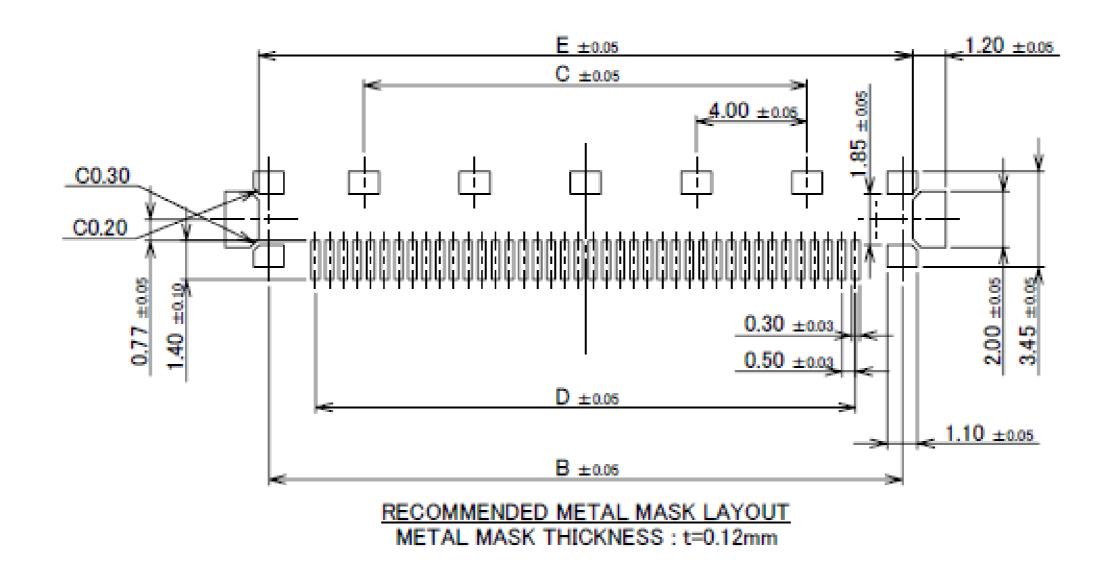
Receptacle Assembly





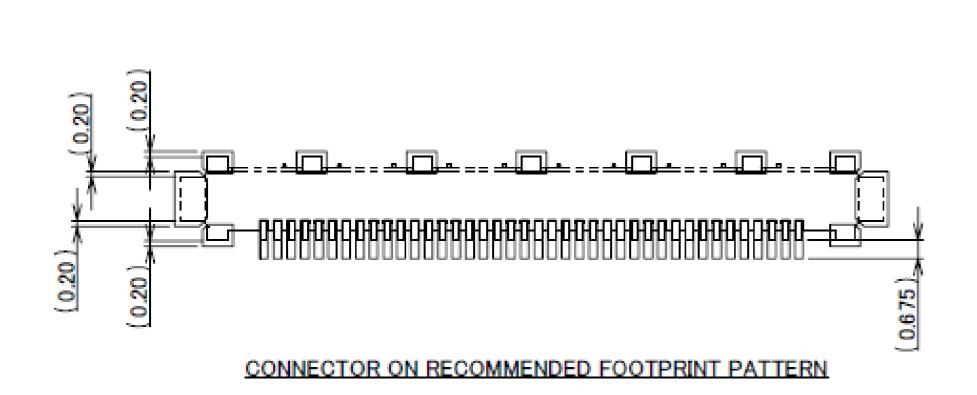
Receptacle Assembly

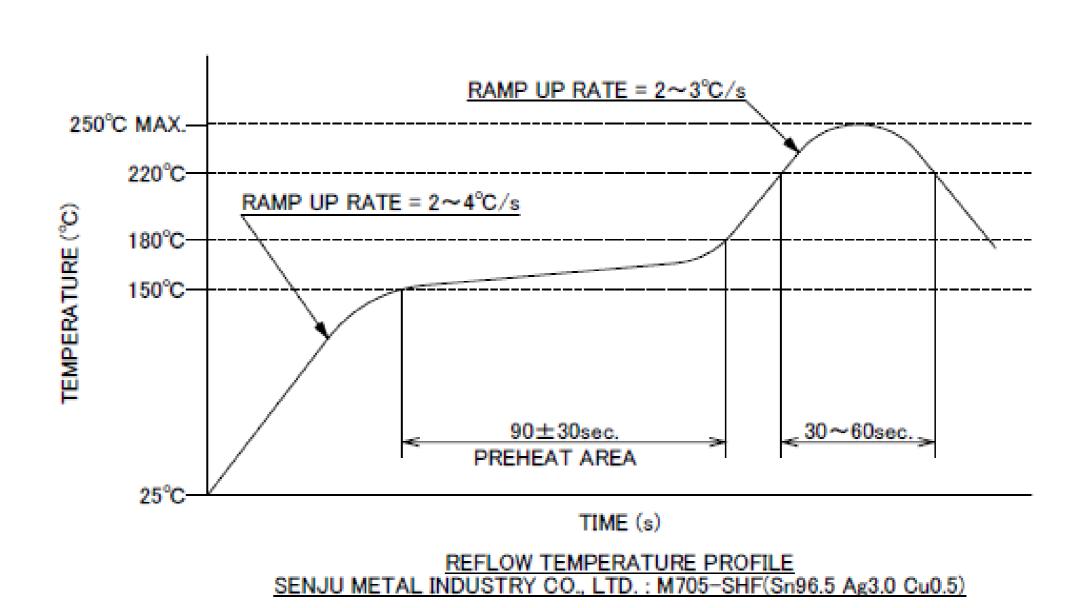
PART NO.	Pos.	В	С	D	Е		
20439-030E-*1	30	17.86	12.00	14.50	18.60		
20439-040E-*1	40	22.86	16.00	19.50	23.60		
20439-050E-*1	50	27.86	20.00	24.50	28.60	E ±0.05	1.20 ±0.05
					C0.30 C0.20	9 ♀ <u>0.50 ±0.03 </u>	3.45 ±0.05



RECOMMENDED FOOTPRINT PATTERN LAYOUT

Rev.24



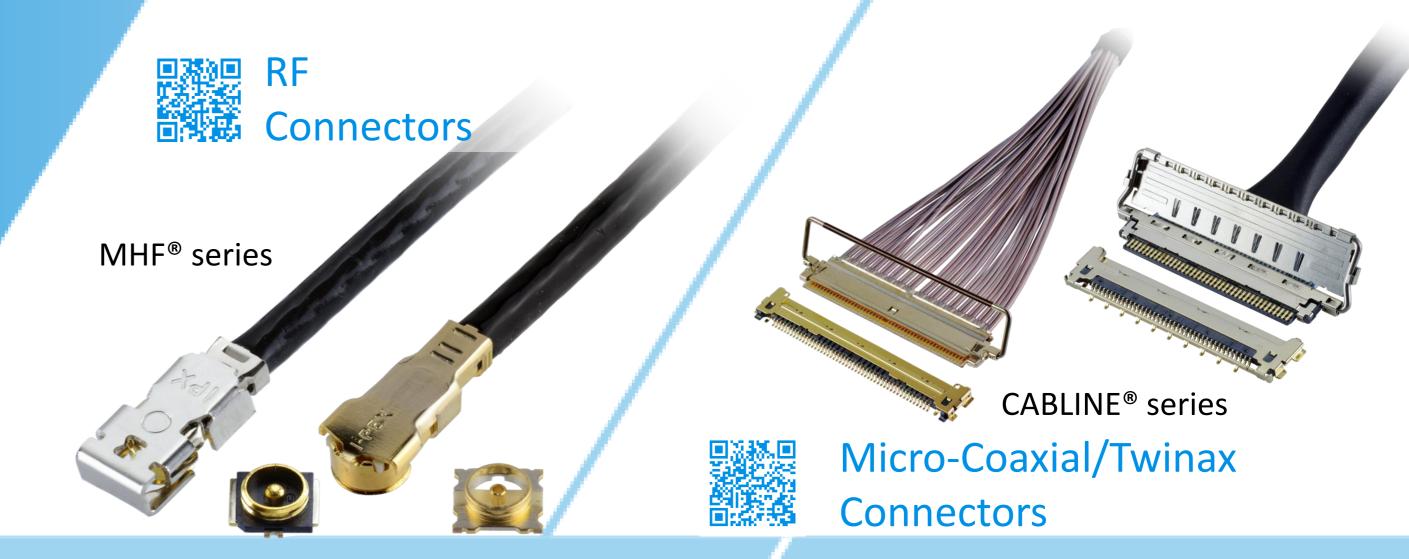


Receptacle Assembly

ITEMS	SPECIFICATION			
APPLICABLE CABLE	MICRO-COAXIAL CABLE: AWG# 40, 38, 36, 34, 32 DISCRETE WIRE: AWG# 36, 34, 32 TWINAX CABLE: AWG# 40			
RATING VOLTAGE	100V AC (PER CONTACT PIN)			
RATING AMPERAGE (FOR CONTACT)	0.3A AC/DC [AWG#40] PER CONTACT PIN / UP TO 50 CONTACTS 0.6A AC/DC [AWG#38] PER CONTACT PIN / UP TO 6 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT PIN / UP TO 4 CONTACTS 1.0A AC/DC [AWG#34, 32] PER CONTACT PIN / UP TO 7 CONTACTS TESTING BY REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.			
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)			
OPERATING HUMIDITY	85% MAX.			
CONTACT RESISTANCE	INITIAL: 145mohm MAX.(AWG#32) / AFTER TEST: \(\square \) 40mohm MAX. 185mohm MAX.(AWG#34) 210mohm MAX.(AWG#36) 335mohm MAX.(AWG#38) 575mohm MAX.(AWG#40)			
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 TEST)	30P: 50.0N MAX. 40P: 60.0N MAX. 50P: 70.0N MAX.			
UNMATING FORCE (INITIAL / AFTER TEST)	30P: 5.0N MIN. 40P: 6.0N MIN. 50P: 7.0N MIN.			
CABLE RETENTION FORCE	30.0N MIN.			
COPLANARITY	0.10 MAX.			
PRODUCT SPECIFICATION	PRS-1383			
TEST REPORT	TR-07048			
PACKING STANDARD	300-583			
INSTRUCTION MANUAL	HIM-09007			
ASSEMBLY MANUAL	ASM-07005			
APPEARANCE CRITERIA No.	QLS-A***			



Custom
Connectors
Available

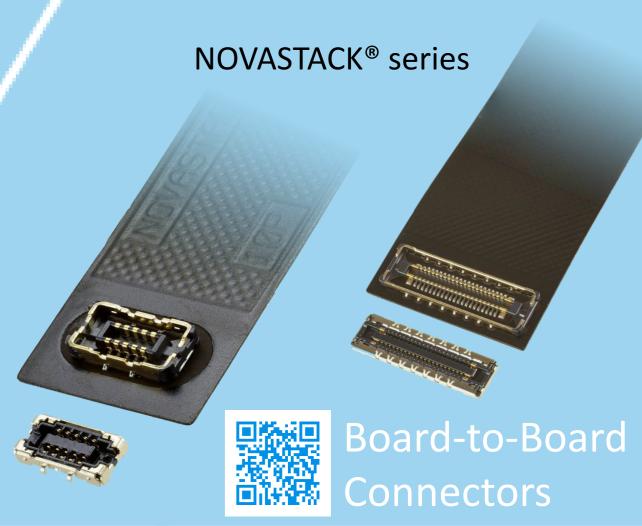




AP series

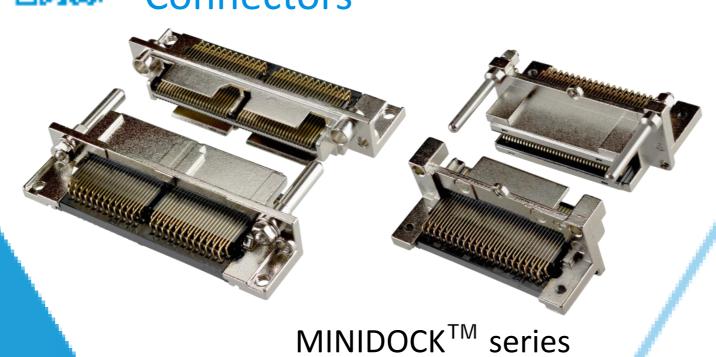






MINIFLEX® series

















EVAFLEX® series

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