

CABLINE®-CAL

较低嵌合高度(嵌合高度 = 0.7 mm), 高速数据传输(20+ Gbps/lane), 机械锁扣, 0.4 mm间距, 水平对插款的极细同轴线连接器

Product Specifications:

Mating type		Horizontal
Board Pitch (mm)		0.4
Wiping Length (mm)		0.4
Mated size (mm)	Height	0.7 +/- 0.1
	Width	Formula: 10-20p: 6.85 +(0.4*?p)
	Depth	Formula: 22-40p: 8.05 +(0.4*?p)
Pin Counts	Range	Up to 40
	Available	30, 40

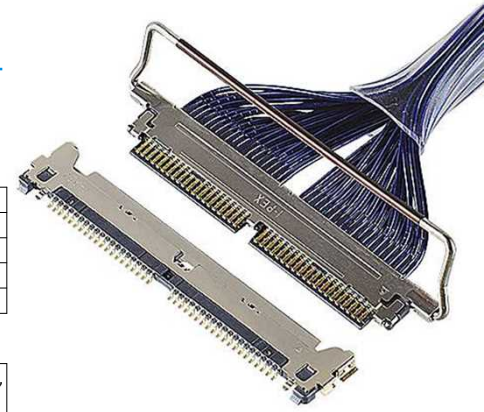
Applicable Cable Size:

Maximum O.D. (mm)	0.4
Micro-Coaxial for Signal (AWG)	45 ohm: #38 or smaller 50 ohm: #40 or smaller
Twin Coaxial (AWG)	-
Discrete (AWG)	#34 or smaller

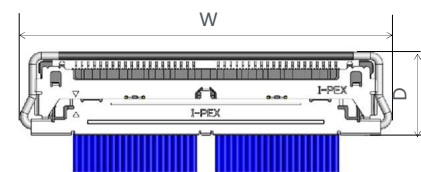
Applicable Standards (Reference Only):

Thunderbolt 4 (20 Gbps/lane), PCIe® Gen 4 (16 GT/s), USB® 3.1 Gen 2 (10 Gbps), eDP HBR 3 (8.1 Gbps)

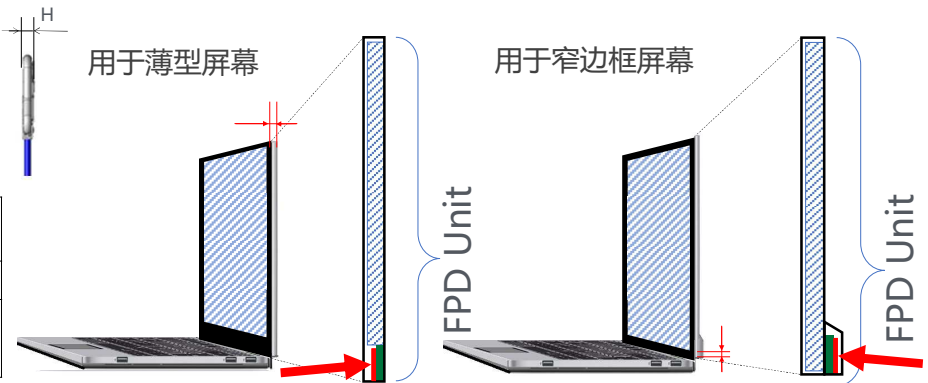
*如您需要了解未列出或不在范围内的Pin数, 请咨询我们。



适用于低空间的连接器



CABLINA®-CAL 40p 一套嵌合后的尺寸(mm)		
W	D	H
24.05	5.50	0.70 (0.80 max.)



高速率传输, USB4 / Thunderbolt 4 (20 Gbps/lane)应用的理想之选

USB4 / Thunderbolt 4 (20 Gbps/lane)

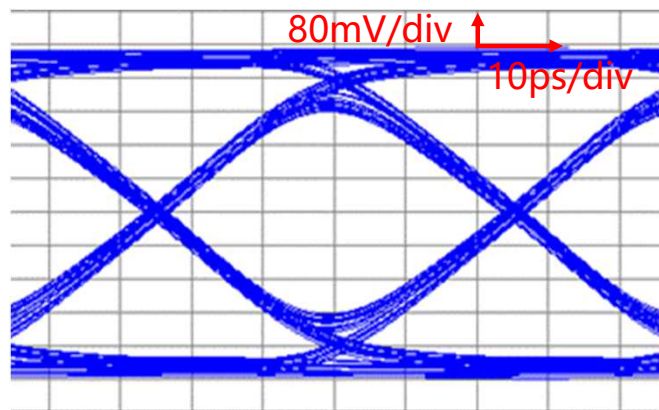
眼图 (微分)

比特率: 20 Gbps

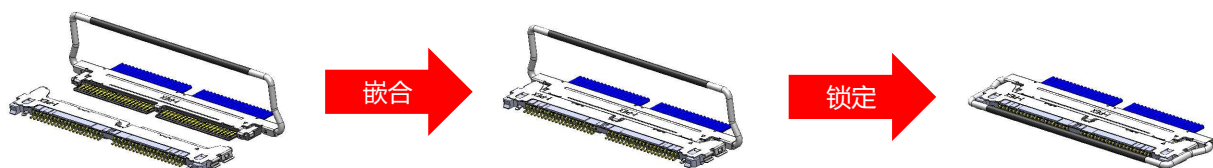
上升时间: 30ps (10-90%)

输入电压: 800mVp-p

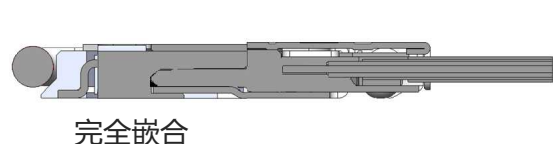
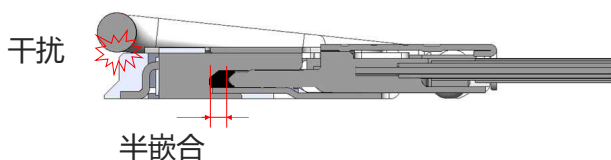
*更多测试细节, 请联系I-PEX 连接器。



机械式锁扣防止半嵌合和连接器弹出/未嵌合

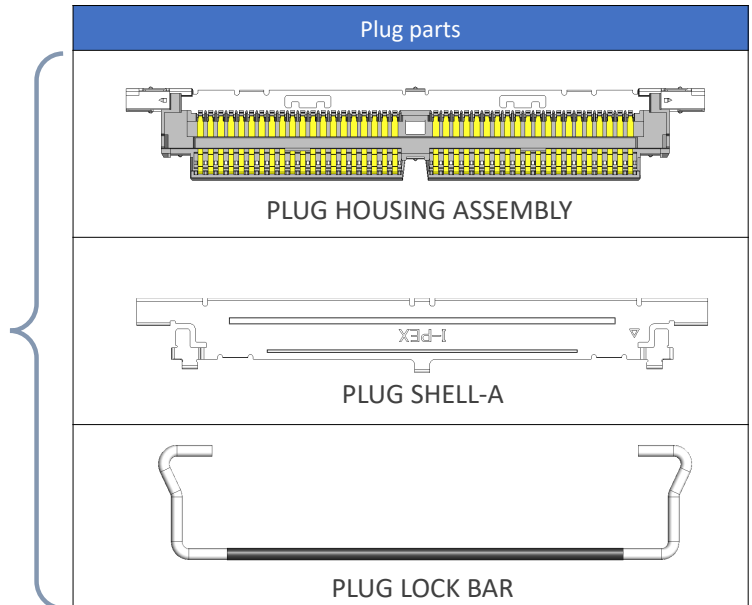
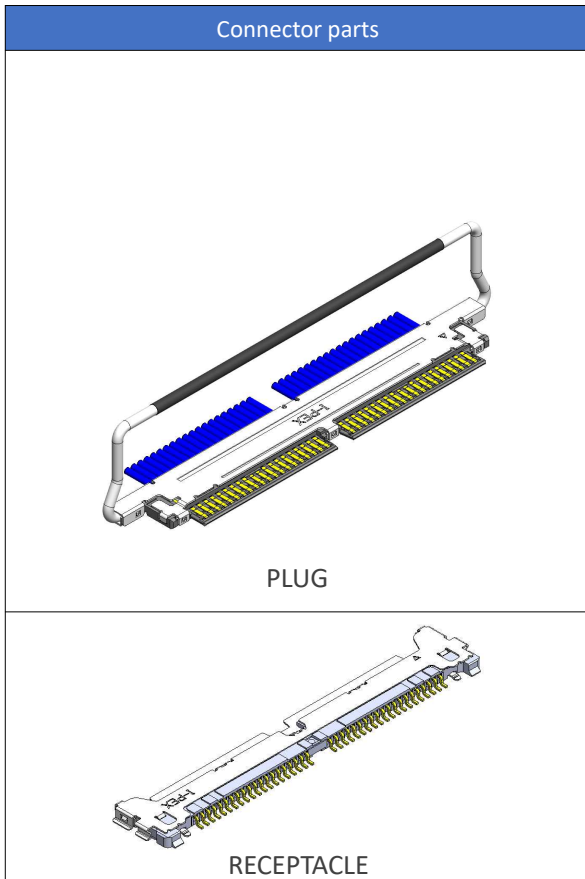


只有当公座完全和母座嵌合时, 机械锁扣才能锁上。



Component Parts Details

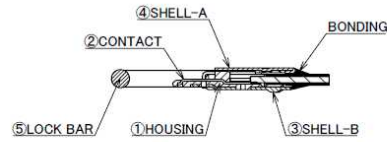
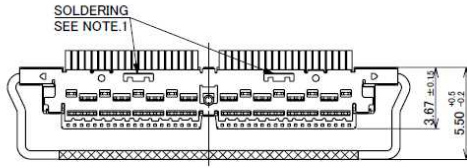
Component Parts



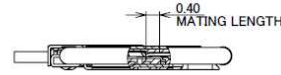
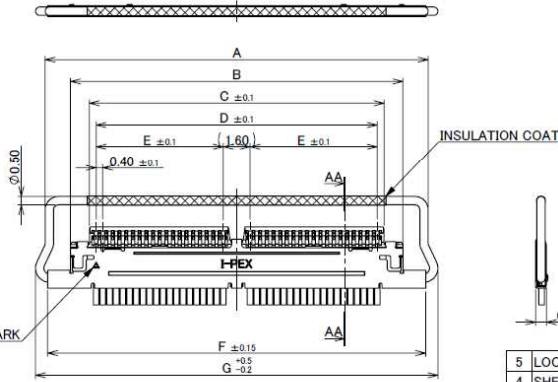
Plug for Cable Assembly

Recommended P/N 20728-0**T-01

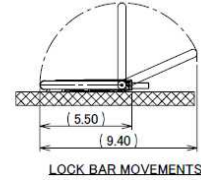
PART NO.	Pos.	A	B	C	D	E	F	G
20728-030T-01	30	18.89	15.86	13.60	12.80	5.60	18.60	20.05
20728-040T-01	40	22.89	19.86	17.60	16.80	7.60	22.60	24.05



SECT. AA-AA
(S=10/1)



MATING CONDITION



LOCK BAR MOVEMENTS



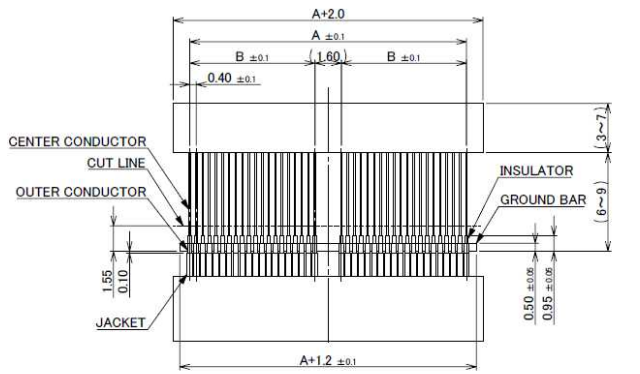
RECOMMENDED CABLE BENDING DIMENSIONS

NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS
5	LOCK BAR	SUS	-
4	SHELL-A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μm MIN. OVER Ni 1.0 μm MIN.
3	SHELL-B	PHOSPHOR BRONZE	PARTIAL Au 0.003 μm MIN. OVER Ni 1.0 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.0 μm MIN. CONTACT & SOLDERING AREA : Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK, RED PHOSPHORUS FREE

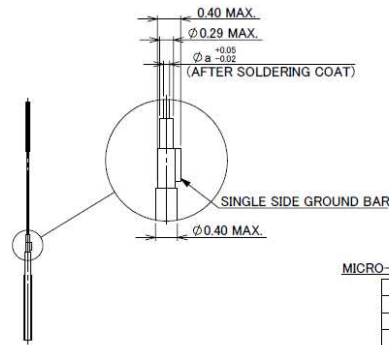
NOTES.
1. SOLDERING IS ONLY A CASE WITH GND-BAR.

Rev.4

PART NO.	Pos.	A	B
20728-030T-0#	30	12.80	5.60
20728-040T-0#	40	16.80	7.60

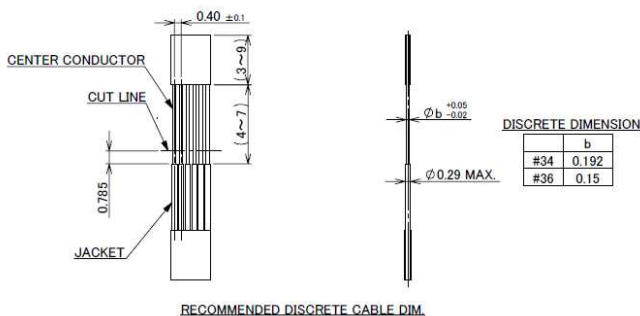


RECOMMENDED MICRO-COAX CABLE DIM.



MICRO-COAX DIMENSION

	a
#38	0.12
#40	0.09
#42	0.075
#44	0.063



RECOMMENDED DISCRETE CABLE DIM.

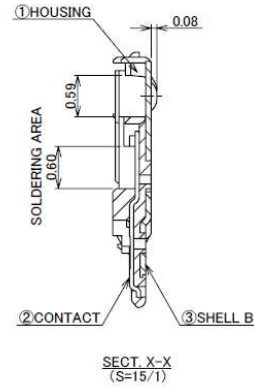
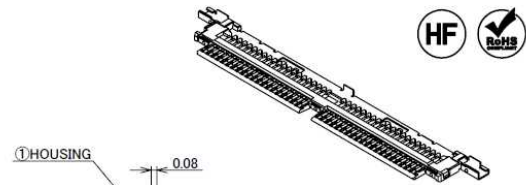
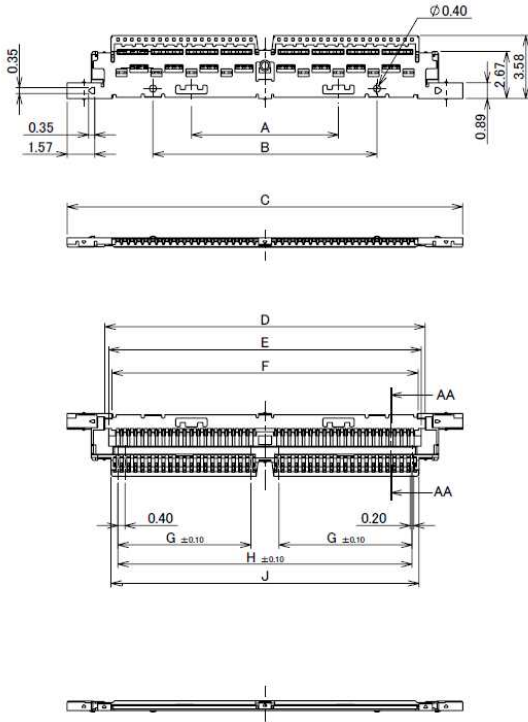
DISCRETE DIMENSION

	b
#34	0.192
#36	0.15

Rev.4

Plug Housing Assembly

Recommended P/N		20777-0**T-01									
PART No.	Pos.	A	B	C	D	E	F	G	H	J	
20777-030T-01	30	4.40	8.80	18.60	14.30	13.85	13.50	5.60	12.80	13.60	
20777-040T-01	40	8.40	12.80	22.60	18.30	17.85	17.50	7.60	16.80	17.60	



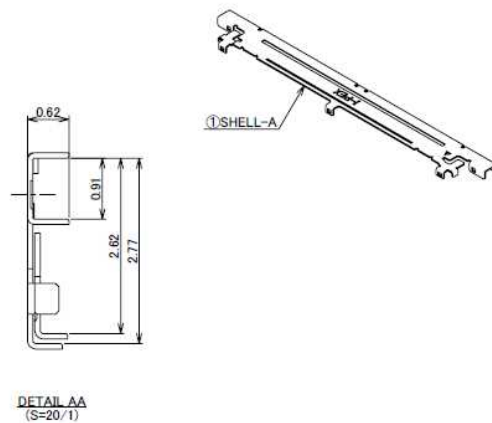
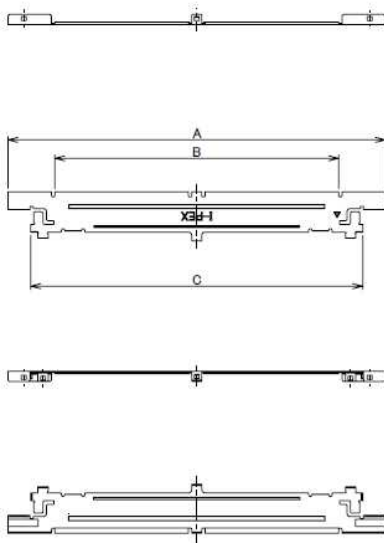
NOTES:
1. THIS PART IS ASSEMBLED WITH P/N: 3298-0**1 AND 3300-**1 AFTER SOLDERING CABLES AND SHALL BE ASSIGNED AS P/N: 20728-0**T-01.

NO.	DISCRIPTION	MATERIAL	FINISH . REMARKS
3	SHELL-B	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT & SOLDERING AREA : Au 0.03 μ m MIN.
1	HOUSING	LCP	UL94-0, BLACK, RED PHOSPHORUS FREE

Rev.4

Plug Shell-A

Recommended P/N		3298-0**1		
PART No.	Pos.	A	B	C
3298-0301	30	18.60	12.98	15.86
3298-0401	40	22.60	16.98	19.86

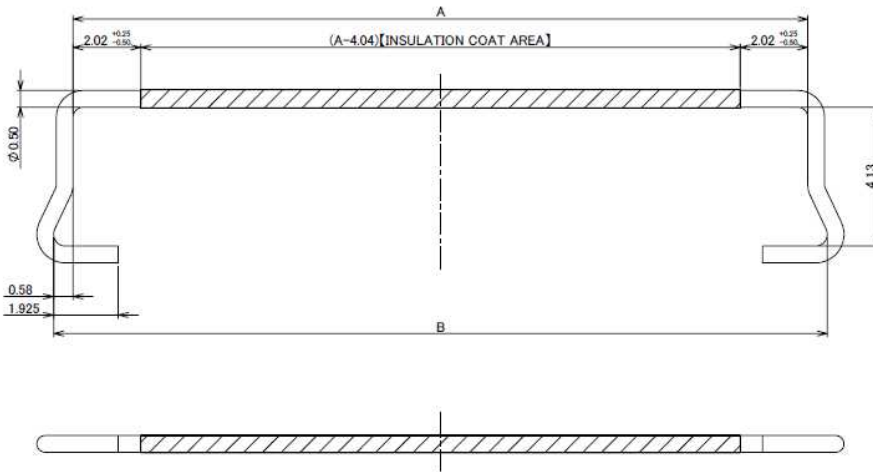


NO.	DISCRIPTION	MATERIAL	FINISH . REMARKS
1	SHELL-A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.0 μ m MIN.

Rev.3

Plug Lock Bar

Recommended P/N		3300-0**1	
PART No.	Pos.	A	B
3300-0301	30	17.89	19.05
3300-0401	40	21.89	23.05

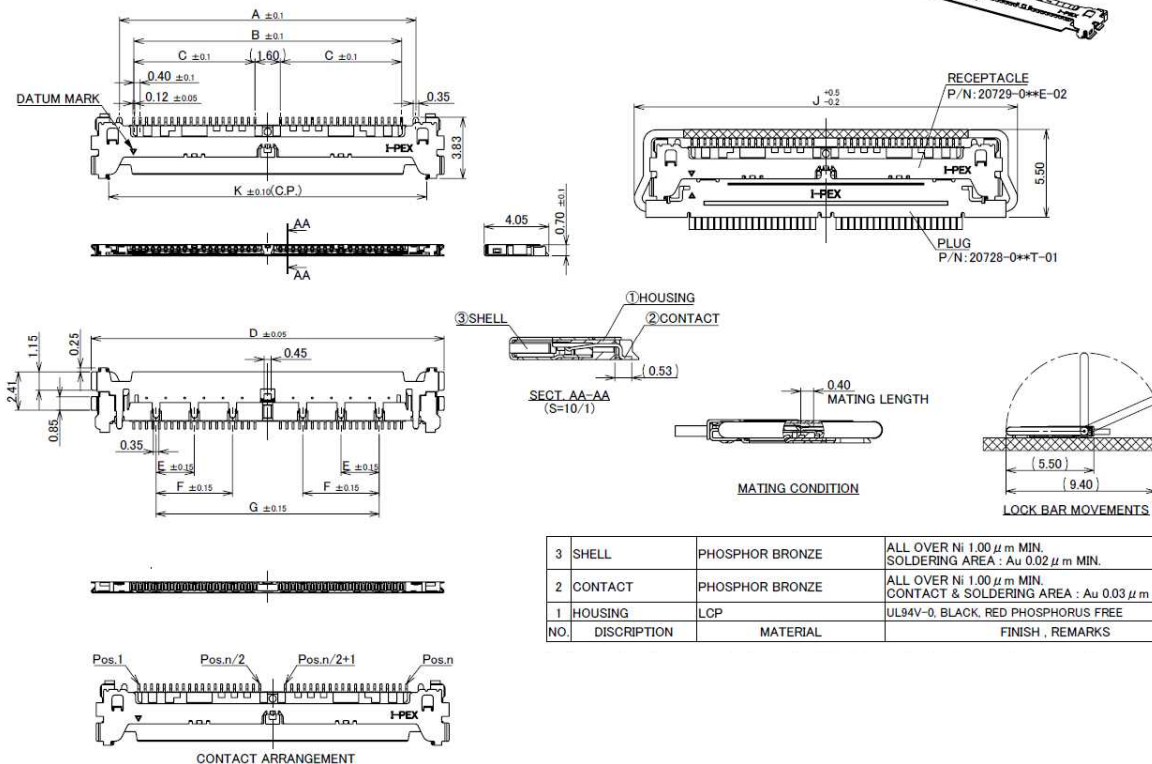


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
1	LOCK BAR	SUS	-

Rev.3

Receptacle Assembly

Recommended P/N		20729-0**E-02									
PART NO.	Pos.	A	B	C	D	E	F	G	H	K	
20729-030E-02	30	14.60	12.80	5.60	18.14	-	2.80	10.00	20.05	15.95	
20729-040E-02	40	18.60	16.80	7.60	22.14	2.40	4.80	14.00	24.05	19.95	



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. SOLDERING AREA: Au 0.02 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT & SOLDERING AREA : Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK, RED PHOSPHORUS FREE

Rev.5

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO COAX : AWG# 38,40,42,44 DISCRETE : AWG# 34,36
RATING VOLTAGE	100V AC (PER CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.10A AC/DC [AWG#44] 0.24A AC/DC [AWG#42] 0.30A AC/DC [AWG#40] 0.50A AC/DC [AWG#38] 0.80A AC/DC [AWG#36] 1.00A AC/DC [AWG#34] ※ TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 180mohm MAX.(AWG#34) / AFTER TEST : \triangleleft 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 : \triangleleft 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 : 12.0N MAX. 40P : 16.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.80N MIN. 40P : 2.40N MIN.
CABLE RETENTION FORCE	30P : 11.8N MIN. 40P : 12.4N MIN.
PRODUCT SPECIFICATION	PRS-2371
TEST REPORT	TR-17036
INSTRUCTION MANUAL	HIM-17010
ASSEMBLY MANUAL	ASM-17003
APPEARANCE CRITERIA No.	QLS-A***

Rev.4

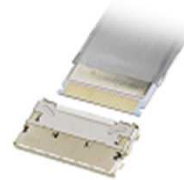
Board to Board



High-Density



Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Power



High-Power



I/O (Input/Output)



Quick charge



Effector



Custom Connectors Available

Inquiry



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