

# CABLINE®-SS

窄型，坚固，垂直插拔，水平出线，能够承受较大电流（AWG#34）  
间距0.4 mm，耐高温，耐高湿型可选

## Product Specifications:

Mating type		Right angle vertical
Board Pitch (mm)		0.4
Wiping Length (mm)		0.3
Mated size (mm)	Height	1.65 +/- 0.2
	Width	5.8 + (0.4*?p)
	Depth	3.0
Pin Counts	Range	Up to 50
	Available	10, 14, 20, 30, 32, 35, 40, 50

## Applicable Cable Size:

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

## Applicable Standards (Reference Only):

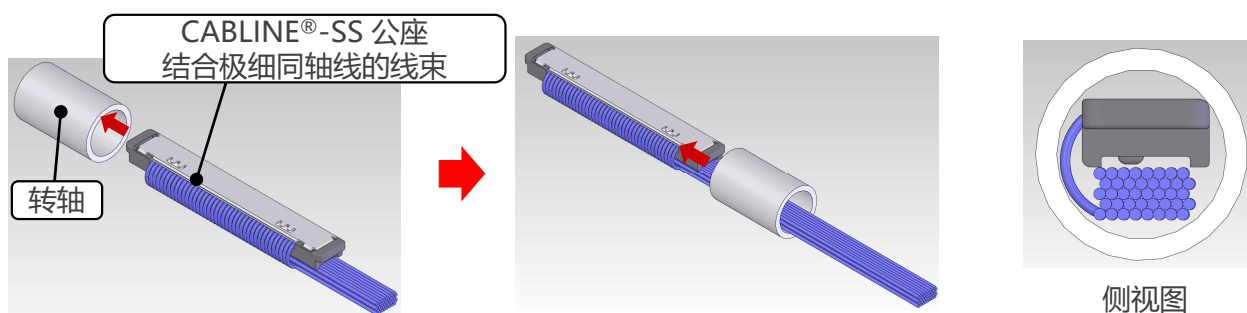
eDP HBR 2 (5.4 Gbps)	USB 3.0 (5 Gbps)
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\*如您需要了解未列出或不在范围内的Pin数，请咨询我们。

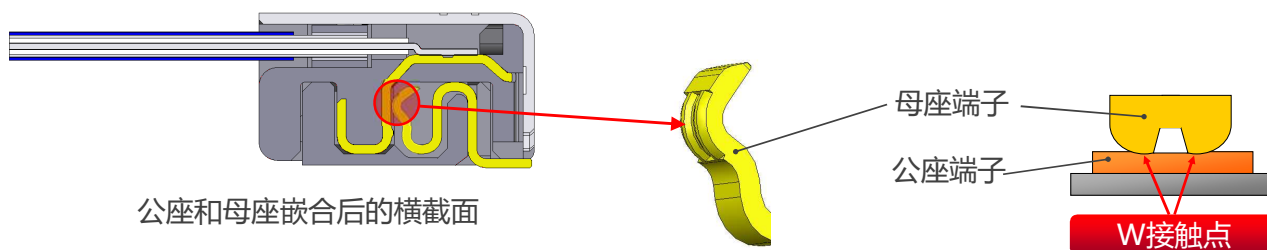


## ► 窄小型设计适于穿孔，电源供电用途用最大可配合AWG#34线缆使用

窄小型公座的线束可以穿过小型转轴。



## ► 独特W-Point双触点设计，实现高接触可靠



W-Point接点技术，能够在恶劣环境下维持公座端子与母座端子间的良好接触品质，  
相较单点接触方式，具有更好的而接触可靠度。

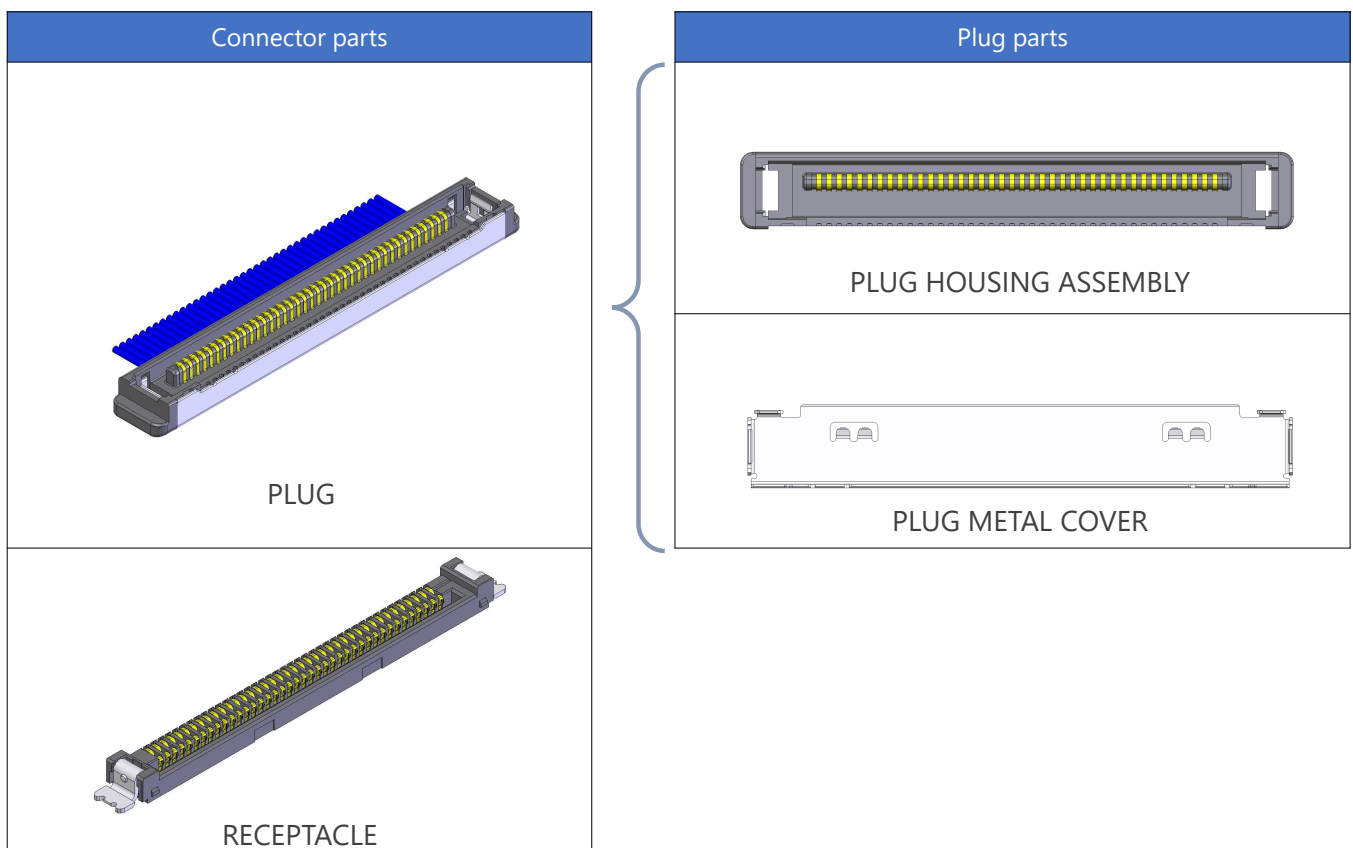
## ► 耐高温/高湿度(高压灭菌)可选

适用于需要无菌环境下工作的医疗设备，高压灭菌对应



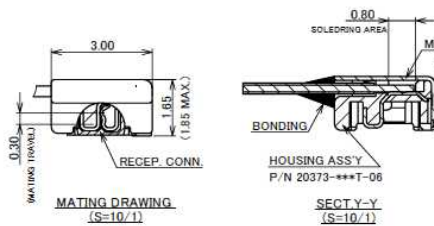
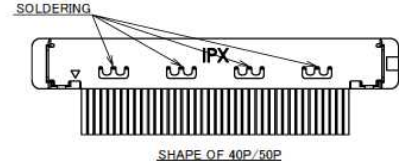
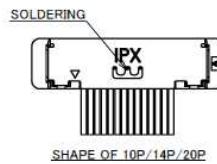
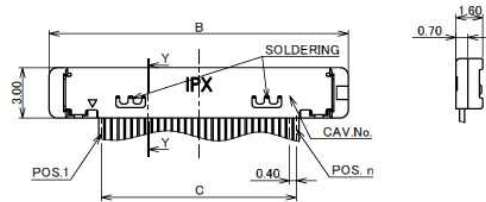
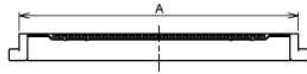
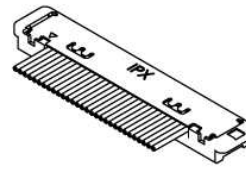
# Component Parts Details

## Component Parts



# Plug for Cable Assembly

Recommended P/N		20380-R**T-06 (10P / 14P / 20P / 30P / 32P / 35P)			20380-R**T-16 (40P / 50P)		
PART NO.	POS.	MATING RECP. P/N	A	B	C		
20380-R10T-06	10	20374-R10E-31	8.6	9.8	3.6		
20380-R14T-06	14	20374-R14E-31	10.2	11.4	5.2		
20380-R20T-06	20	20374-R20E-31	12.6	13.8	7.6		
20380-R30T-06	30	20374-R30E-31	16.6	17.8	11.6		
20380-R32T-06	32	20374-R32E-31	17.4	18.6	12.4		
20380-R35T-06	35	20374-R35E-31	18.6	19.8	13.6		
20380-R40T-16	40	20374-R40E-31	20.6	21.8	15.6		
20380-R50T-16	50	20374-R50E-31	24.6	25.8	19.6		

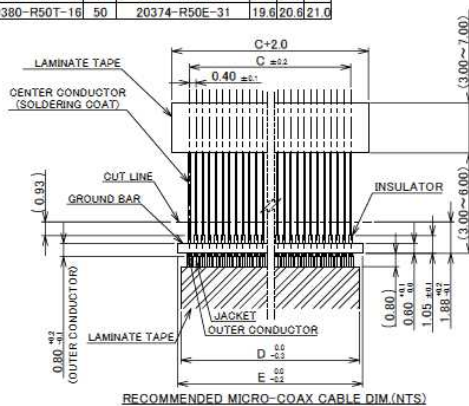


NOTES.  
1. THE CABLE MUST NOT HOLD WHEN UN-MATING A CONNECTOR.

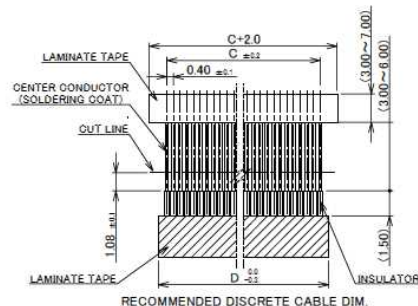
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS
3	METAL COVER	PHOSPHOR BRONZE	Sn REFLOW 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.10 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

Rev.26

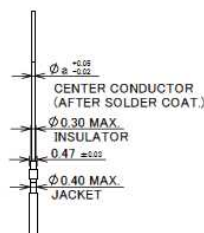
Recommended P/N		20380-R**T-06 (10P / 14P / 20P / 30P / 32P / 35P)			20380-R**T-16 (40P / 50P)		
PART NO.	POS.	MATING RECP. P/N	C	D	E		
20380-R10T-06	10	20374-R10E-31	3.6	4.6	5.0		
20380-R14T-06	14	20374-R14E-31	5.2	6.2	6.6		
20380-R20T-06	20	20374-R20E-31	7.6	8.6	9.0		
20380-R30T-06	30	20374-R30E-31	11.6	12.6	13.0		
20380-R32T-06	32	20374-R32E-31	12.4	13.4	13.8		
20380-R35T-06	35	20374-R35E-31	13.6	14.6	15.0		
20380-R40T-16	40	20374-R40E-31	15.6	16.6	17.0		
20380-R50T-16	50	20374-R50E-31	19.6	20.6	21.0		



RECOMMENDED MICRO-COAX CABLE DIM(NTS)



RECOMMENDED DISCRETE CABLE DIM.



MICRO COAX CABLE  
(AWG #42,40,36)

CHARACTERISTIC IMPEDANCE MACHING MICRO COAX CABLE

	a
#40	φ 0.09
#42	φ 0.075

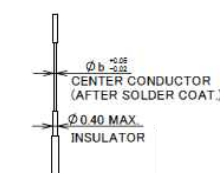
CHARACTERISTIC IMPEDANCE UN-MACHING MICRO COAX CABLE

	a
#36	φ 0.15

MICRO COAX CABLE #36 : NOT RECOMMENDED FOR HIGH SPEED SIGNAL TRANSFAER

DISCRETE CABLE DIMENSION

	b
#34	φ 0.192
#36	φ 0.15

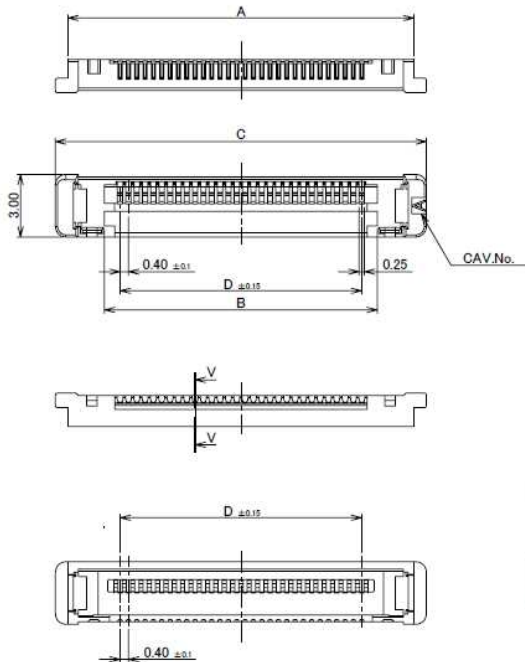


DISCRETE CABLE  
(AWG #36,34)

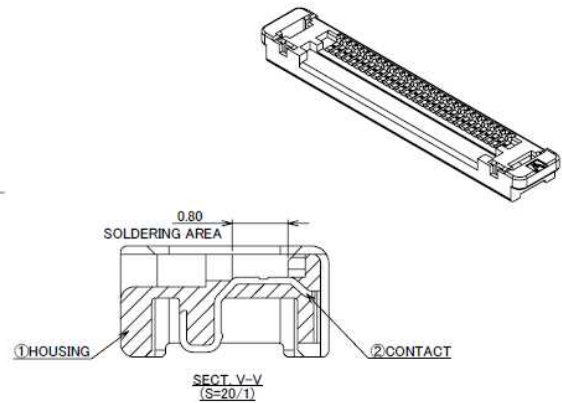
Rev.26

## Plug Housing Assembly

Recommended P/N		20373-R**T-06			
PART NO.	Pos.	A	B	C	D
20373-R10T-06	10	8.60	5.10	9.80	3.60
20373-R14T-06	14	10.20	6.70	11.40	5.20
20373-R20T-06	20	12.60	9.10	13.80	7.60
20373-R30T-06	30	16.60	13.10	17.80	11.60
20373-R32T-06	32	17.40	13.90	18.60	12.40
20373-R35T-06	35	18.60	15.10	19.80	13.60
20373-R40T-06	40	20.60	17.10	21.80	15.60
20373-R50T-06	50	24.60	21.10	25.80	19.60



FOR AWG #34,#36,#40,#42



### NOTES

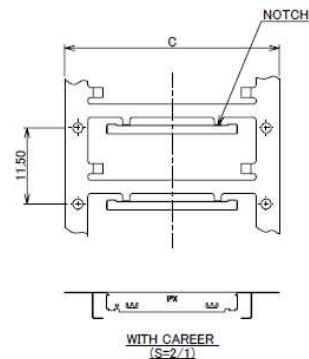
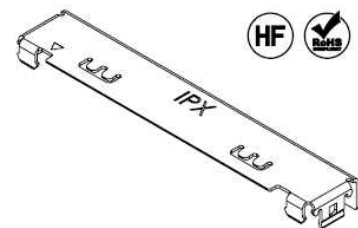
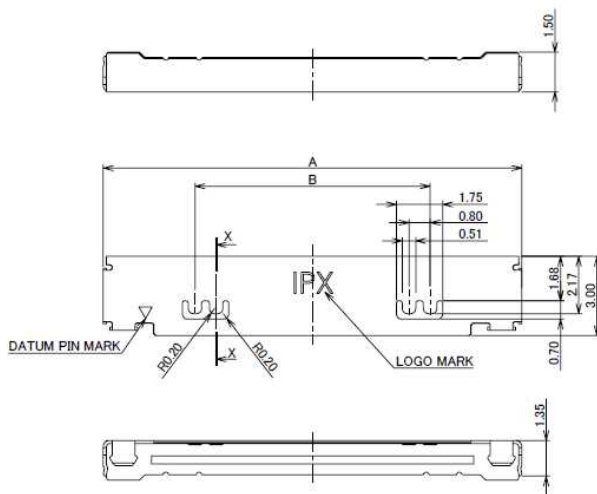
1. THIS PART IS ASSEMBLED WITH METAL COVER (P/N 2182-0\*\*-03(10P,14P,20P,30P,32P,35P) or 2182-0\*\*-04(40P,50P)) AFTER SOLDERED CABLE, AND IT BECOMES P/N 20380-R\*\*T-06(10P,14P,20P,30P,32P,35P) or 20380-R\*\*T-16(40P,50P)

2	CONTACT	PHOSPHOR BRONZE	Au 0.10 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.
1	HOUSING	LCP (RED PHOSPHORUS IS NOT USED)	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS

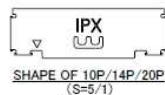
Rev.21

## Plug Metal Cover

Recommended P/N		2182-0**-03 (10P / 14P / 20P / 30P / 32P / 35P)				2182-0**-04 (40P / 50P)	
PART NO.	POS.	A	B	C			
2182-010-03	10	7.84	-	24.50			
2182-014-03	14	9.44	-	24.50			
2182-020-03	20	11.84	-	24.50			
2182-030-03	30	15.84	8.90	28.50			
2182-032-03	32	16.64	9.70	29.30			
2182-035-03	35	17.84	10.90	30.50			



1	METAL COVER	PHOSPHOR BRONZE	Sn REFLOW 1.00 $\mu$ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS

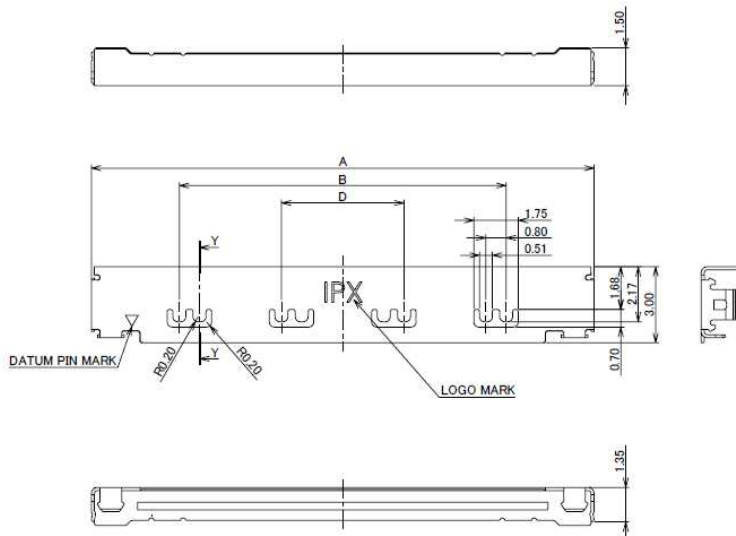
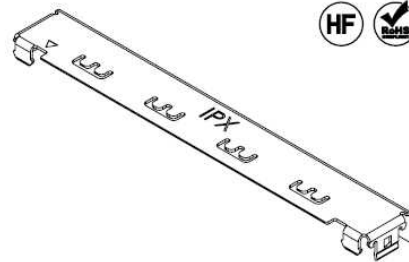


Rev.19

## Plug Metal Cover

Recommended P/N 2182-0\*\*-03 (10P / 14P / 20P / 30P / 32P / 35P) 2182-0\*\*-04 (40P / 50P)

PART NO.	POS.	A	B	C	D
2182-040-04	40	19.84	12.90	32.50	4.84
2182-050-04	50	23.84	16.90	36.50	6.17



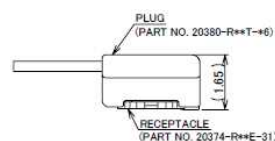
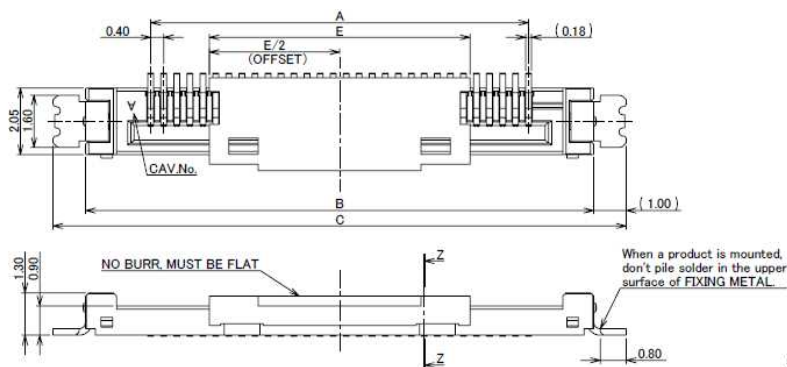
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
1	METAL COVER	PHOSPHOR BRONZE	Sn REFLOW 1.00 $\mu$ m MIN.

Rev.19

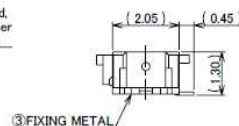
## Receptacle Assembly

Recommended P/N 20374-R\*\*E-31

PART NO.	POS.	A	B	C	D	E
20374-R10E-31	10	3.60	7.60	9.60	7.20	5.50
20374-R14E-31	14	5.20	9.20	11.20	8.80	5.50
20374-R20E-31	20	7.60	11.60	13.60	11.20	8.00
20374-R30E-31	30	11.60	15.60	17.60	15.20	9.00
20374-R32E-31	32	12.40	16.40	18.40	16.00	8.00
20374-R35E-31	35	13.60	17.60	19.60	17.20	8.00
20374-R40E-31	40	15.60	19.60	21.60	19.20	8.00
20374-R50E-31	50	19.60	23.60	25.60	23.20	8.00



MATING CONDITION



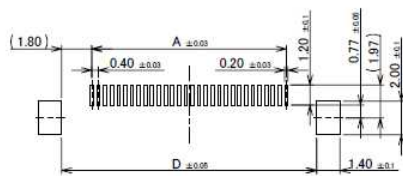
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	VACUUM CRIP	LCP	UL94V-0, BEIGE
3	FIXING METAL	PHOSPHOR BROZE	Sn/Cu(98/2) (LUSTER) 2.0 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.
2	CONTACT	PHOSPHOR BROZE	CONTACT AREA: Au 0.1 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN. SOLDERING AREA: Au 0.05 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.
1	HOUSING	LCP (RED PHOSPHORUS IS NOT USED)	UL94V-0, BLACK

Rev.30

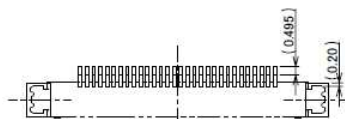


# Receptacle Assembly

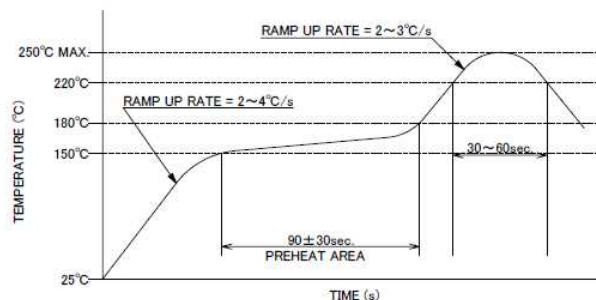
PART NO.	POS.	A	D
20374-R10E-31	10	3.60	7.20
20374-R14E-31	14	5.20	8.80
20374-R20E-31	20	7.60	11.20
20374-R30E-31	30	11.80	15.20
20374-R32E-31	32	12.40	16.00
20374-R35E-31	35	13.60	17.20
20374-R40E-31	40	15.60	19.20
20374-R50E-31	50	19.60	23.20



**RECOMMENDED FOOTPRINT PATTERN (MOUNT SIDE)**  
Recommended Thickness of Metal Mask : t=0.13mm  
Recommended Opening Ratio of Metal Mask : 79.6%



**CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN**



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

Rev.30

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO COAX : AWG# 42 , 40 , 36 DISCRETE : AWG# 36 , 34
RATING VOLTAGE	100V AC (PER CONTACT)
RATING AMPERAGE (FOR CONTACT)	0.24A AC/DC [AWG#42] AVAILABLE TO 50 PIN 0.25A AC/DC [AWG#40] AVAILABLE TO 50 PIN 0.30A AC/DC [AWG#40] AVAILABLE TO 32 PIN 0.35A AC/DC [AWG#36] AVAILABLE TO 50 PIN 0.40A AC/DC [AWG#36] AVAILABLE TO 37 PIN 0.35A AC/DC [AWG#34] AVAILABLE TO 50 PIN 1.00A AC/DC [AWG#34] AVAILABLE TO 2 PIN
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 180mohm MAX. (AWG#34) / AFTER TEST : 140mohm MAX. 275mohm MAX. (AWG#36) 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) (INITIAL CONTAINS THE CONDUCTOR RESISTANCE OF A CABLE 100mm)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : 140mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	10P : 29.00N MAX. 32P : 33.40N MAX. 14P : 29.80N MAX. 35P : 34.00N MAX. 20P : 31.00N MAX. 40P : 35.00N MAX. 30P : 33.00N MAX. 50P : 38.00N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	10P : INITIAL : 4.00N MIN. / AFTER 30 CYCLES : 2.87N MIN. 14P : INITIAL : 4.40N MIN. / AFTER 30 CYCLES : 3.23N MIN. 20P : INITIAL : 5.00N MIN. / AFTER 30 CYCLES : 3.76N MIN. 30P : INITIAL : 6.00N MIN. / AFTER 30 CYCLES : 4.65N MIN. 32P : INITIAL : 6.20N MIN. / AFTER 30 CYCLES : 4.64N MIN. 35P : INITIAL : 6.50N MIN. / AFTER 30 CYCLES : 5.07N MIN. 40P : INITIAL : 7.00N MIN. / AFTER 30 CYCLES : 5.50N MIN. 50P : INITIAL : 8.00N MIN. / AFTER 30 CYCLES : 6.41N MIN.
CABLE RETENTION FORCE	10P : 4.90N MIN. 32P : 15.68N MIN. 14P : 6.86N MIN. 35P : 17.15N MIN. 20P : 9.80N MIN. 40P : 19.60N MIN. 30P : 14.70N MIN. 50P : 24.50N MIN.
PRODUCT SPECIFICATION	PRS-1239
TEST REPORT	TR-04037
INSTRUCTION MANUAL	HIM-04001
ASSEMBLY MANUAL	ASM-04001
APPEARANCE CRITERIA No.	QLS-A***

Rev.26

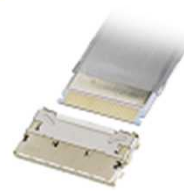
Board to  
Board



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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