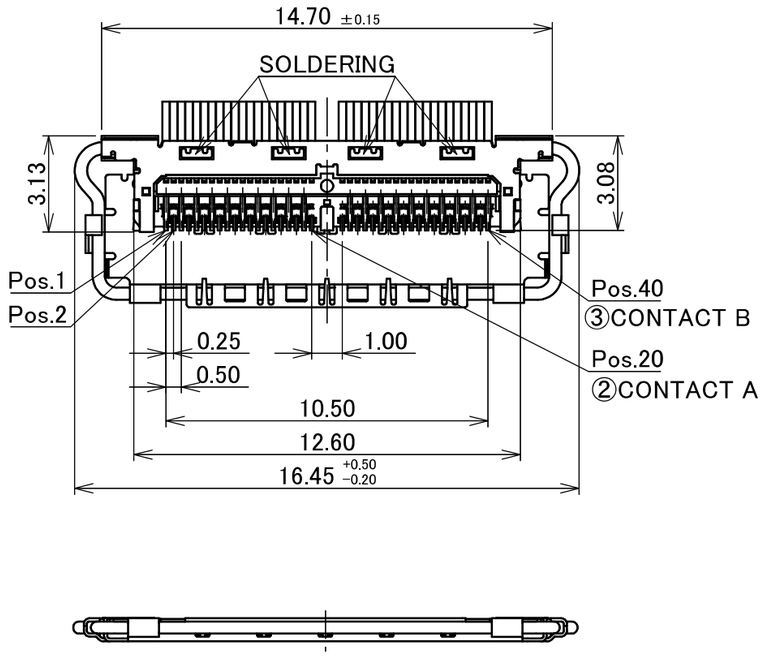
Recommended P/N	20977-040T-01

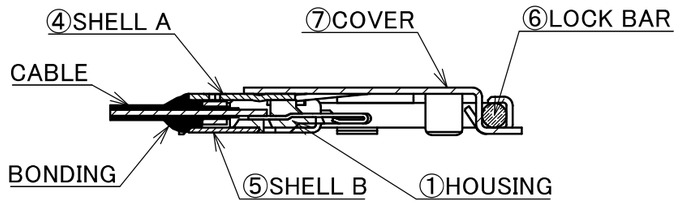
PART NO.	Pos.
20977-040T-01	40

HF Halogen Free

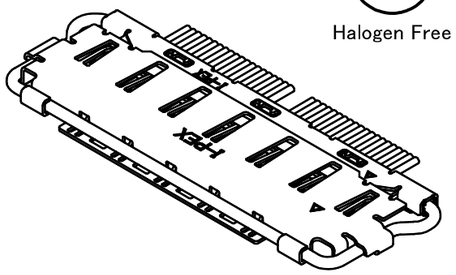
RoHS Compliant

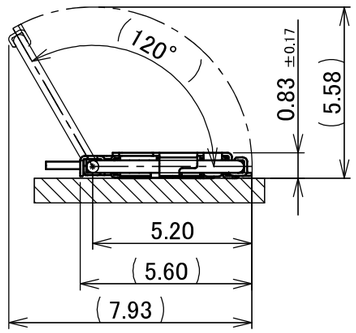
BOTTOM VIEW



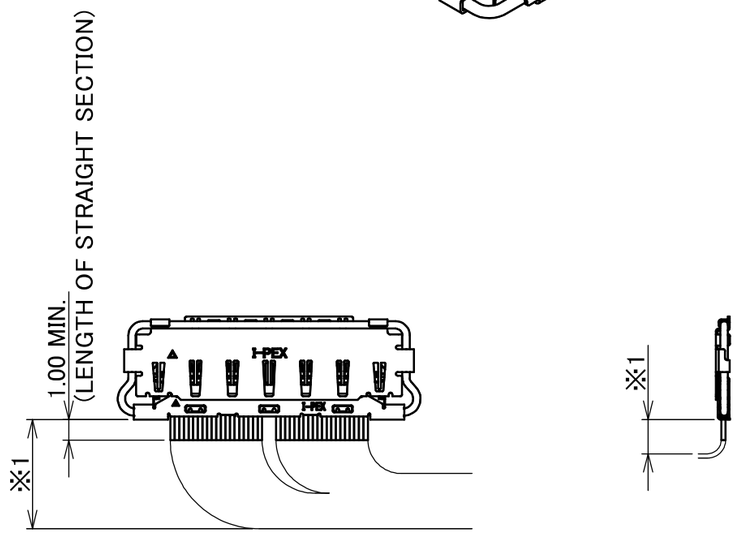


SECT. AA-AA
(S= 10 : 1)



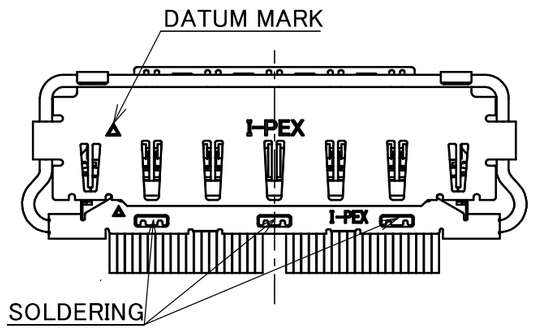


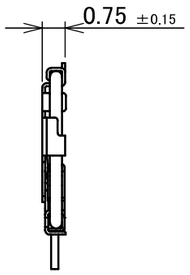
LOCK BAR MOVEMENT

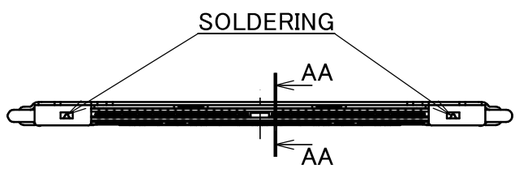


REFERENCE CABLE BENDING DIMENSIONS

TOP VIEW







※1 : THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES.
PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
7	COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN.
6	LOCK BAR	SUS	–
5	SHELL B	SUS	PARTIAL Au 0.003 μm MIN. OVER Ni 1.00 μm MIN.
4	SHELL A	SUS	PARTIAL Au 0.003 μm MIN. OVER Ni 1.00 μm MIN.
3	CONTACT B	CORSON ALLOY	CONTACT AREA : Au 0.25 μm MIN. OVER Ni 2.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT A	CORSON ALLOY	CONTACT AREA : Au 0.25 μm MIN. OVER Ni 2.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

REV.	ECN	BY	DATE	APP.
4	Z250424	R.H	2025/03/13	H.I
3	Z241433	T.T	2024/10/16	H.I
2	Z240027	R.H	2024/01/10	H.I
1	Z230096	R.H	2023/01/24	H.I
0	Z191044	S.Y	2019/08/08	

REVISION RECORD

ANGLE	±2°	6 OVER 30 MAX.	±0.3
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5

GENERAL TOLERANCE.

DWG.	DATE
S.Yamaguchi	2019/08/08
CHK. T.Kurachi	
APP. Y.Shimada	

PROJECTION | SERIES No. R1/R0/R0

CUSTOMER COPY

TITLE
CABLINE® -CX II
PLUG WITH COVER
CABLE ASSEMBLY

SCALE	UNIT
5:1	mm

I-PEX

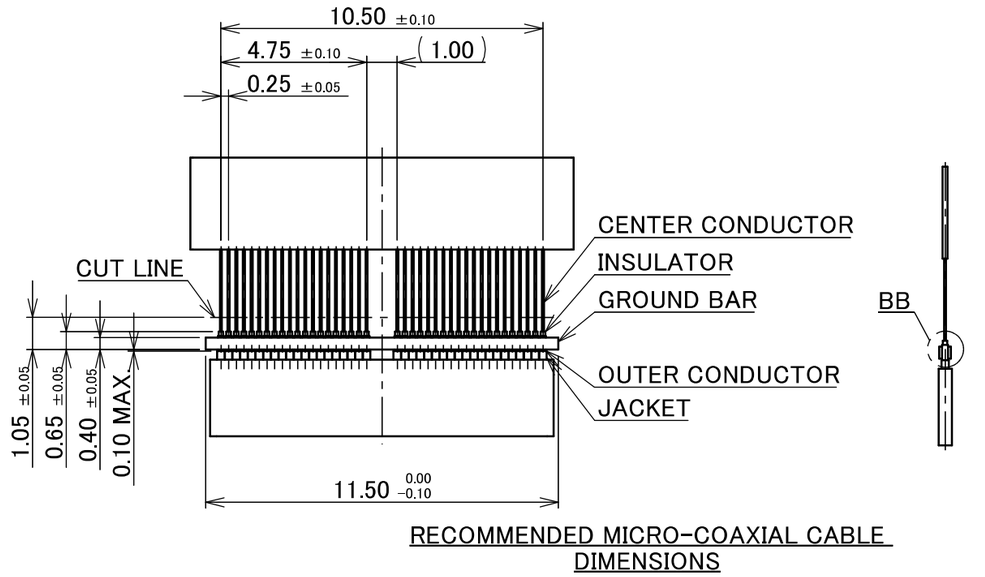
DWG. No.	SIZE	SHEET	REV.
20977	A3	1/3	4

Confidential C

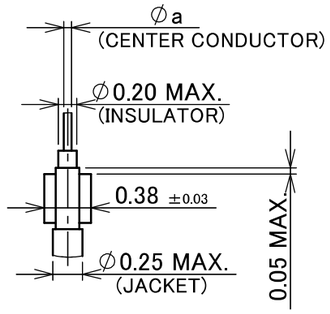
I-PEX Inc.

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 46,44,39 DISCRETE WIRE : AWG# 39
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)	0.10A AC/DC [AWG#46] PER CONTACT PIN/UP TO 40 CONTACTS 0.15A AC/DC [AWG#44] PER CONTACT PIN/UP TO 40 CONTACTS 0.50A AC/DC [AWG#39] PER CONTACT PIN/UP TO 8 CONTACTS ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERTURE RISE MAY AFFECTED BY ACTUAL SITUATION
OPERATING TEMPERATURE	233～358K(-40℃～+85℃) (CONTAINING TEMPERATURE RISE BY CURRENT)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 388mohm MAX.(AWG#39) / AFTER TEST : ⊿40mohm MAX. INITIAL : 1,080mohm MAX.(AWG#44) INITIAL : 1,830mohm MAX.(AWG#46)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : ⊿40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1,000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / 20 CYCLES)	40P : 30.0N MAX.
UNMATING FORCE (INITIAL / 20 CYCLES)	40P : 4.0N MIN.
CABLE RETENTION FORCE	40P : 19.60N MIN.
PRODUCT SPECIFICATION	PRS-2403
TEST REPORT	TR-17063
INSTRUCTION MANUAL	HIM-17035
ASSEMBLY MANUAL	ASM-17008
APPEARANCE CRITERIA No.	QLS-A***

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R1/R0/R0		
GENERAL TOLERANCE.				TITLE		SCALE	
DWG.		DATE		CABLINE® -CX II PLUG WITH COVER CABLE ASSEMBLY		–	I-PEX
CHK.						UNIT mm	
APP.				DWG. No.		SIZE	SHEET / REV.
				20977		A3	2/3 / 4



RECOMMENDED MICRO-COAXIAL CABLE DIMENSIONS



DETAIL. BB
(S= 20 : 1)

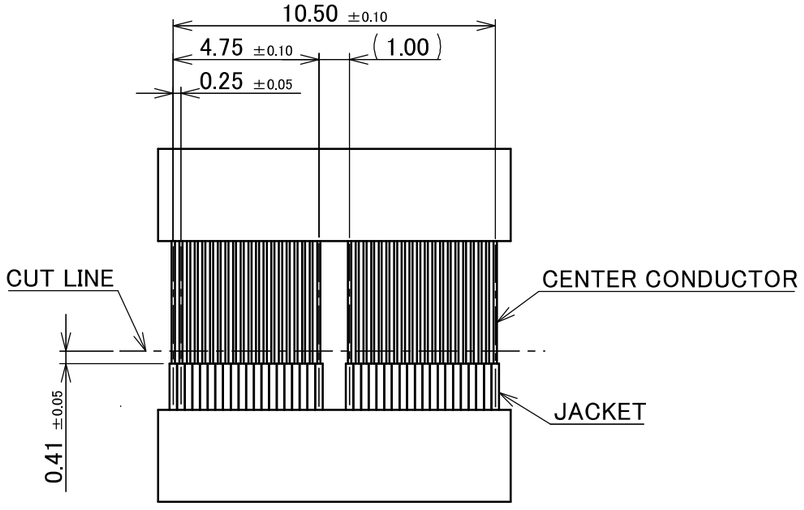
CHARACTERISTIC IMPEDANCE MATCHING MICRO-COAXIAL CABLE

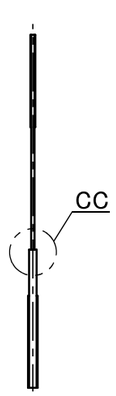
	a
#44	0.063
#46	0.048

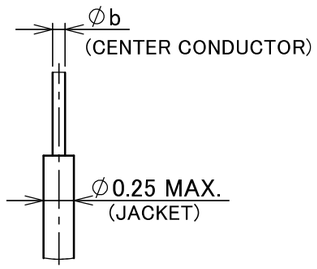
CHARACTERISTIC IMPEDANCE UN-MATCHING MICRO-COAXIAL CABLE

	a
#39	0.102

MICRO-COAXIAL CABLE #39 : NOT RECOMMENDED
FOR HIGH SPEED SIGNAL TRANSFER







DETAIL CC
(S= 20 : 1)

DISCRETE WIRE DIMENSION

	b
#39	0.102

RECOMMENDED DISCRETE WIRE DIMENSIONS

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R1/R0/R0	
GENERAL TOLERANCE.				TITLE	SCALE	
DWG.	DATE			CABLINE® -CX II PLUG WITH COVER CABLE ASSEMBLY	5:1	I-PEX
CHK.					UNIT mm	
APP.				DWG. No. 20977	SIZE A3 / SHEET 3/3 / REV. 4	