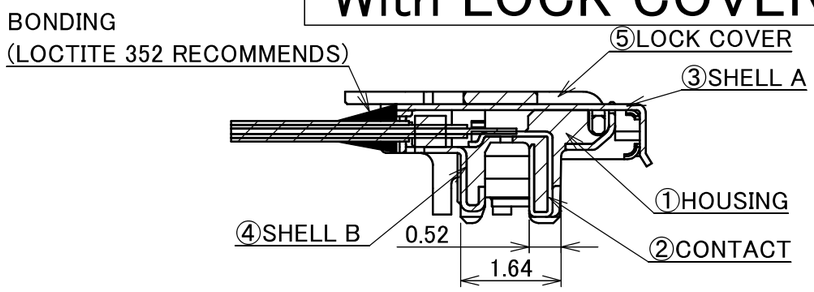
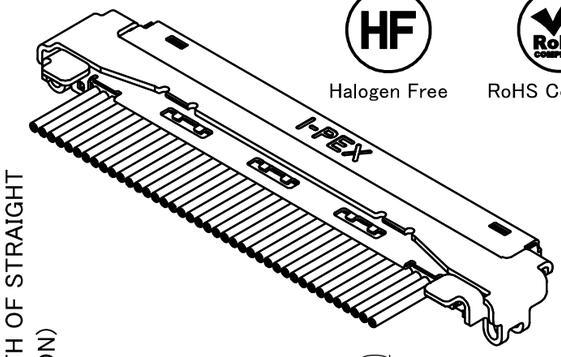
Recommended P/N	20877-0**T-01

PART NO.	Pos.	A	B	C	D	E
20877-030T-01	30	16.20	13.85	13.65	11.60	17.00
20877-040T-01	40	20.20	17.85	17.65	15.60	21.00
20877-050T-01	50	24.20	21.85	21.65	19.60	25.00
20877-060T-01	60	28.20	25.85	25.65	23.60	29.00

With LOCK COVER

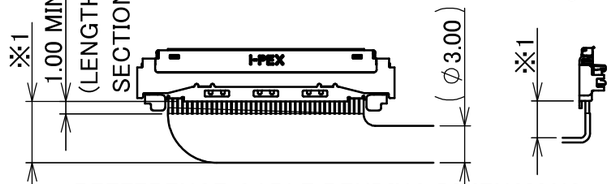


SECT. Y-Y
(S=10/1)



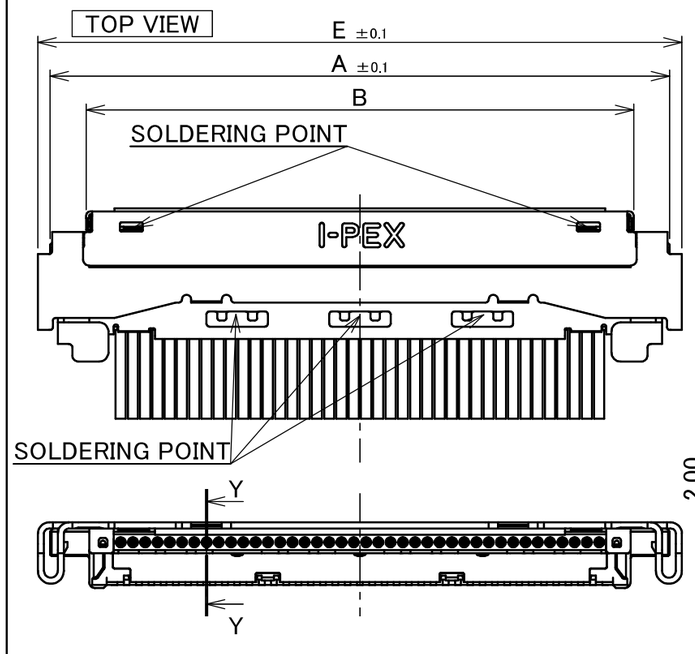
Halogen Free

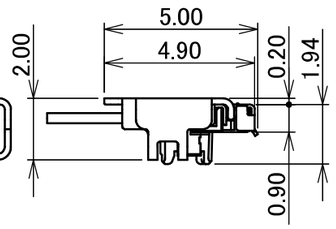
RoHS Compliant

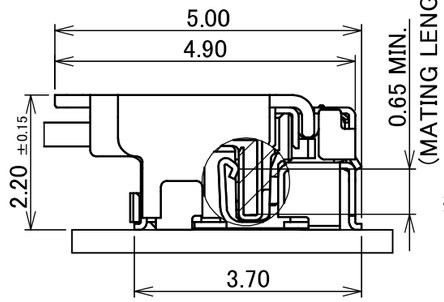


REFFERENCE CABLE BENDING DIMENSIONS

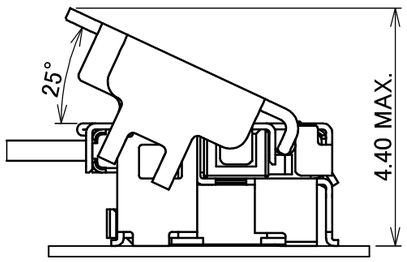
※1: THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES.
PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.



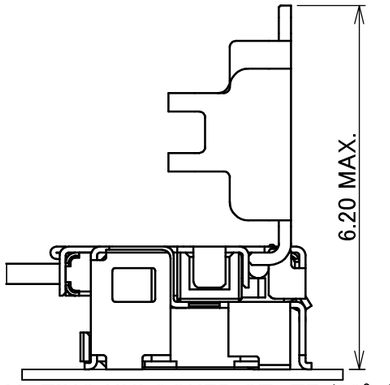




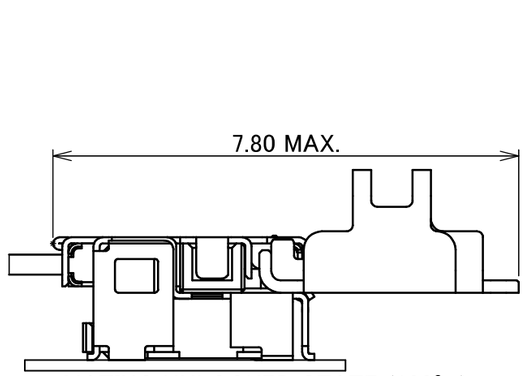
MATING LOCKED STATE
(S=10/1)



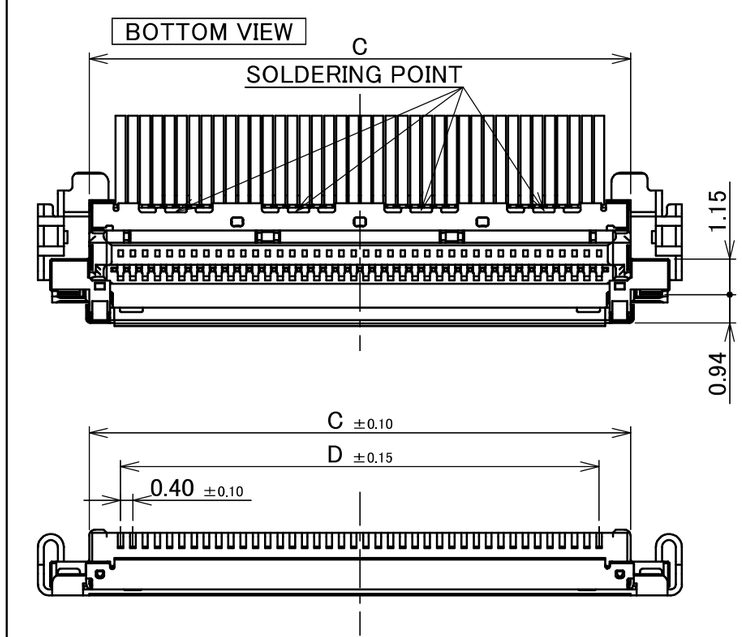
MATING UNLOCKED STATE (25°)
(S=10/1)



MATING UNLOCKED STATE (90°)
(S=10/1)



MATING UNLOCKED STATE (180°)
(S=10/1)



NOTES.
1. THE LOCK COVER MUST BE OPENED AT LEAST 25° TO PROPERLY UNMATE THE PLUG/HARNESS.

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

REV.	ECN	BY	DATE	APP.
17	Z250942	K.W	2025/06/16	M.T
16	Z241484	T.Ono	2024/10/23	T.M
15	Z241387	K.Ta	2024/10/09	T.M
14	Z240534	R.M	2024/05/02	T.M
13	Z240502	R.M	2024/04/22	T.M
12	Z240414	T.Ono	2024/04/04	T.M

REVISION RECORD

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

GENERAL TOLERANCE.

DWG. T.Masunaga DATE 2019/01/10

CHK. –

APP. H.Ikari

PROJECTION

SERIES No. R3R2R2R0

CUSTOMER COPY

TITLE
CABLINE®-UM
PLUG CABLE ASSEMBLY

SCALE 5:1

UNIT mm

DWG. No. 20877

SIZE A3

SHEET 1/5

REV. 17

I-PEX

PATENT PENDING

Recommended P/N	20877-0**T-01

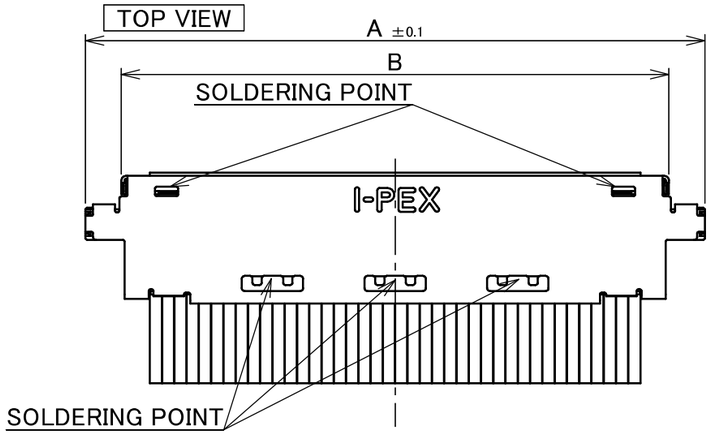
PART NO.	Pos.	A	B	C	D
20877-030T-02	30	16.20	13.85	13.65	11.60
20877-040T-02	40	20.20	17.85	17.65	15.60
20877-050T-02	50	24.20	21.85	21.65	19.60
20877-060T-02	60	28.20	25.85	25.65	23.60

Without LOCK COVER

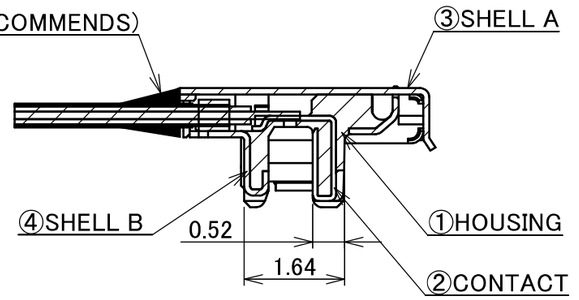
Halogen Free

RoHS Compliant

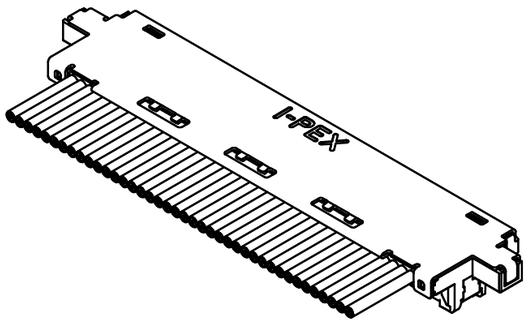
TOP VIEW

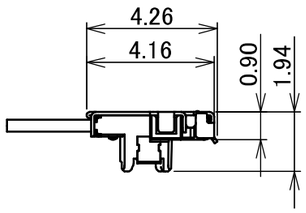


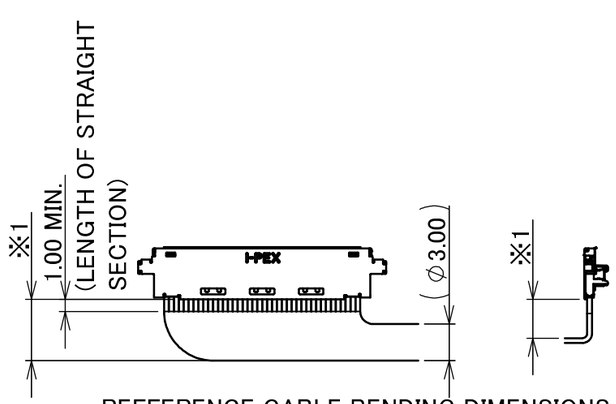
BONDING
(LOCTITE 352 RECOMMENDS)



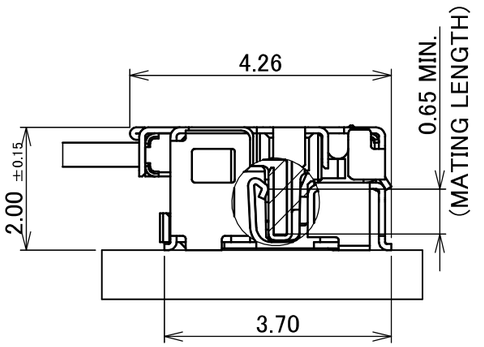
SECT. Y-Y
(S=10/1)





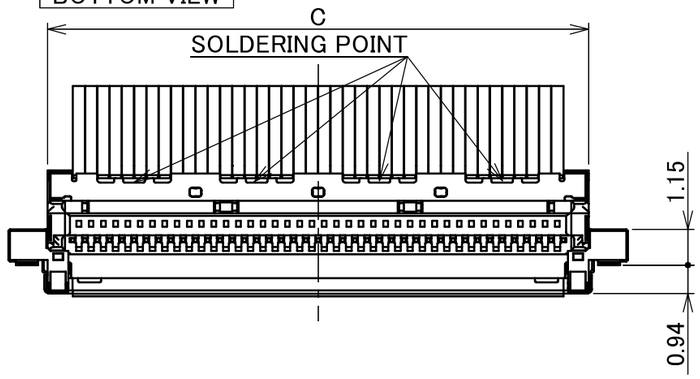


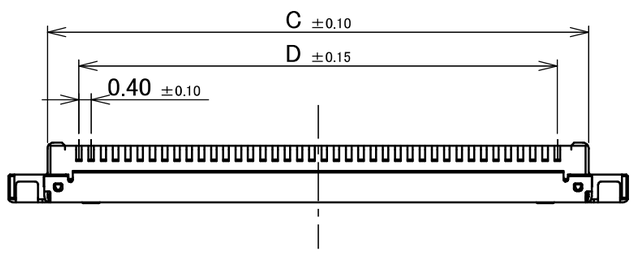
REFFERENCE CABLE BENDING DIMENSIONS



MATING
(S=10/1)

BOTTOM 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
4	SHELL B	PHOSPHOR BRONZE	PARTIAL Au 0.003 μm MIN. OVER Ni 1.0 μm MIN.
3	SHELL A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μm MIN. OVER Ni 1.0 μm MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.0 μm MIN. CONTACT & SOLDERING AREA : Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0 ,BLACK

PATENT PENDING

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R3R2R2R0
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		CUSTOMER COPY
GENERAL TOLERANCE.				TITLE: CABLINE®-UM PLUG CABLE ASSEMBLY	SCALE 5:1
DWG.	DATE				UNIT mm
CHK.					I-PEX
APP.				DWG. No. 20877	SIZE A3 / SHEET 2/5 / REV. 17

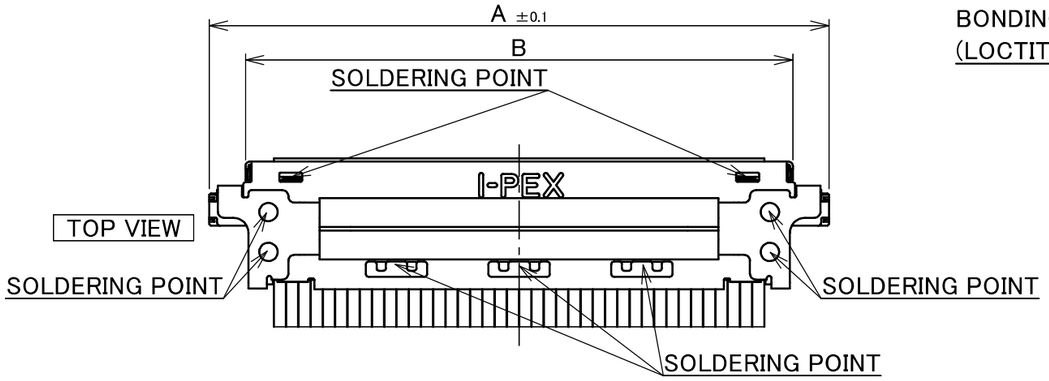
Recommended P/N	20877-0**T-01

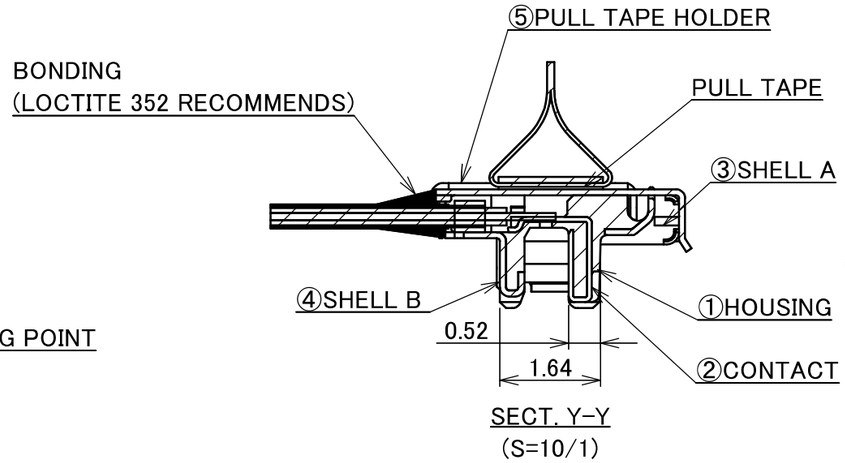
PART NO.	Pos.	A	B	C	D	F	G
20877-030T-03	30	16.20	13.85	13.65	11.60	9.00	10.00
20877-040T-03	40	20.20	17.85	17.65	15.60	13.00	14.00
20877-050T-03	50	24.20	21.85	21.65	19.60	17.00	18.00
20877-060T-03	60	28.20	25.85	25.65	23.60	21.00	22.00

With PULL TAPE HOLDER

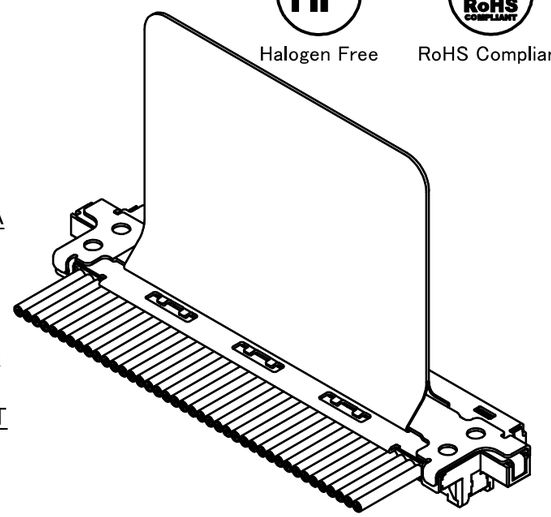
Halogen Free

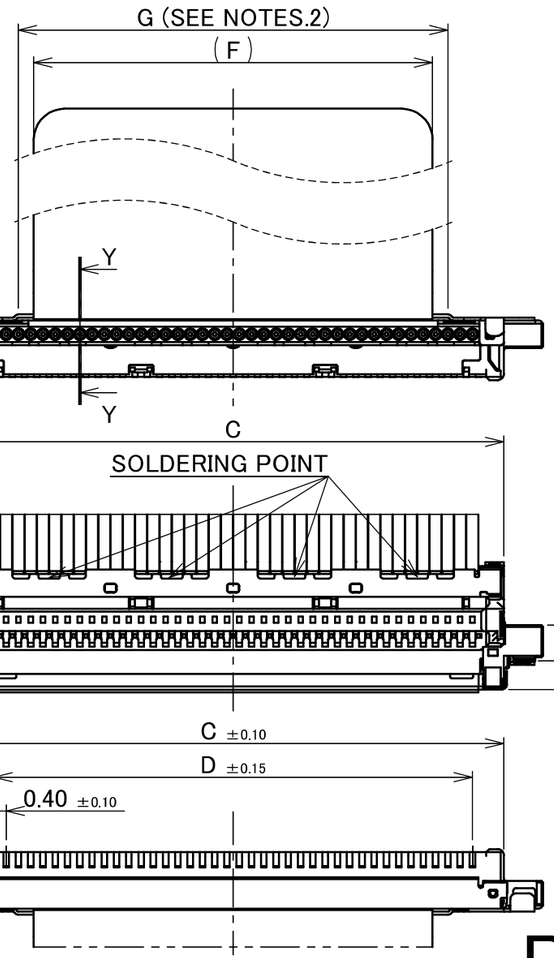
RoHS Compliant

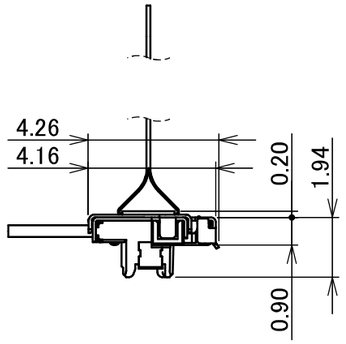


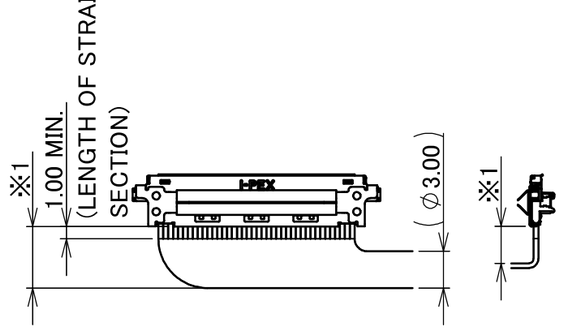


SECT. Y-Y
(S=10/1)

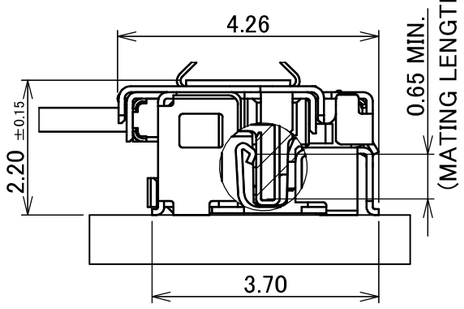








REFFERENCE CABLE BENDING DIMENSIONS



MATING
(S=10/1)

※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
5	PULL TAPE HOLDER	PHOSPHOR BRONZE	PARTIAL Au 0.003μm MIN. OVER Ni 1.0μm MIN.
4	SHELL B	PHOSPHOR BRONZE	PARTIAL Au 0.003μm MIN. OVER Ni 1.0μm MIN.
3	SHELL A	PHOSPHOR BRONZE	PARTIAL Au 0.003μm MIN. OVER Ni 1.0μm MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.0μm MIN. CONTACT & SOLDERING AREA : Au 0.03μm MIN.
1	HOUSING	LCP	UL94V-0 ,BLACK

NOTES.
2.RECOMMENDED PULL-TAPE
PULL-TAPE : TERAOKA's INSULATION TAPE No.650S(#50) t=0.08
3.PULL-TAPE CAN BE PUT WITHIN THE RANGE OF "G" STRIAGHT AREA.

PATENT PENDING

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R3R2R2R0	

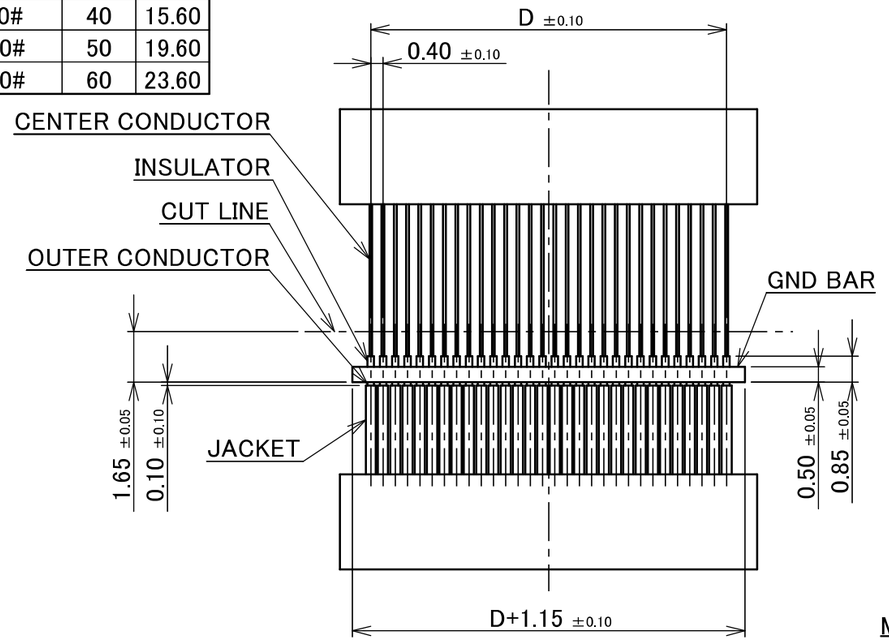
GENERAL TOLERANCE.

DWG.	DATE	TITLE	SCALE	
		CABLINE®-UM PLUG CABLE ASSEMBLY	5:1	I-PEX
CHK.			UNIT	
			mm	
APP.		DWG. No. 20877	SIZE A3	SHEET 3/5 REV. 17

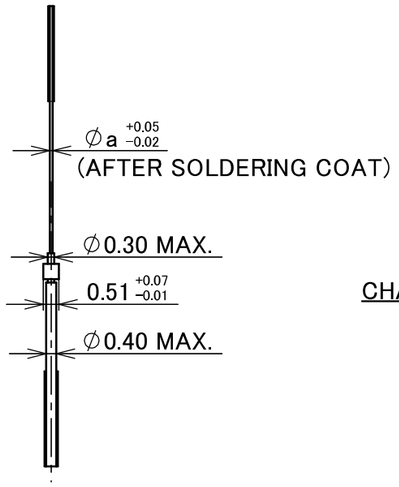
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG #44 , 42 , 40 , 38 , 36 DISCRETE WIRE : AWG #36 , 34 TWINAXIAL CABLE : AWG #40 , 42
RATED VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATED AMPERAGE (FOR CONTACT)	0.15A AC/DC [AWG #44] PER CONTACT PIN/UP TO 60 CONTACTS 0.24A AC/DC [AWG #42] PER CONTACT PIN/UP TO 49 CONTACTS 0.3A AC/DC [AWG #40] PER CONTACT PIN/UP TO 38 CONTACTS 0.5A AC/DC [AWG #38] PER CONTACT PIN/UP TO 19 CONTACTS 0.8A AC/DC [AWG #36] PER CONTACT PIN/UP TO 12 CONTACTS 1.0A AC/DC [AWG #34] PER CONTACT PIN/UP TO 10 CONTACTS ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233 TO 378K (-40℃ TO +105℃)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 180mohm MAX.(AWG #34) / AFTER TEST : ⊿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 : ⊿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 : 34.00N MAX. 50P : 46.00N MAX. 40P : 40.00N MAX. 60P : 52.00N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 3.0N MIN. 50P : 5.0N MIN. 40P : 4.0N MIN. 60P : 6.0N MIN.
CABLE RETENTION FORCE	30P : 14.70N MIN. 50P : 24.50N MIN. 40P : 19.60N MIN. 60P : 29.40N MIN.
PRODUCT SPECIFICATION	PRS-2514
TEST REPORT	TR-18067 (RECEPTACLE:20879-0**E-01) TR-18088 (RECEPTACLE:20879-0**E-02)
INSTRUCTION MANUAL	HIM-18033
ASSEMBLY MANUAL	ASM-18003
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		R3R2R2R0		
GENERAL TOLERANCE.		TITLE		SCALE	
DWG. DATE		CABLINE®-UM PLUG CABLE ASSEMBLY		–	I-PEX
CHK.				UNIT mm	
APP.		DWG. No. 20877		SIZE A3	SHEET 4/5 REV. 17

PART NO.	Pos.	D
20877-030T-0#	30	11.60
20877-040T-0#	40	15.60
20877-050T-0#	50	19.60
20877-060T-0#	60	23.60



RECOMMENDED MICRO-COAXIAL CABLE DIM.



MICRO-COAXIAL CABLE AWG #**

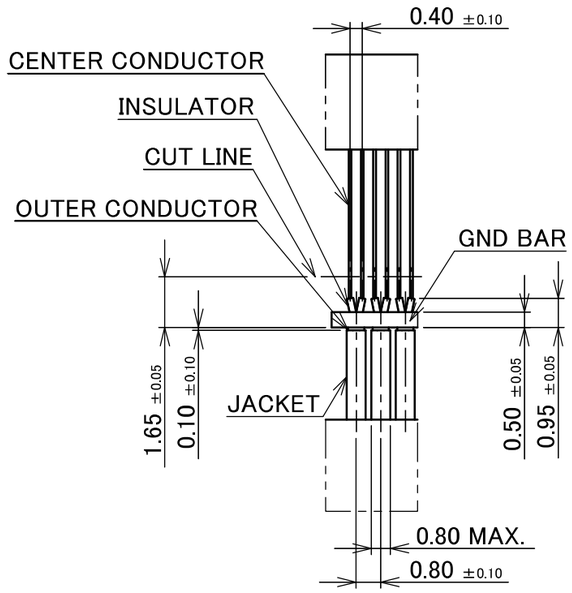
CHARACTERISTIC IMPEDANCE MATCHING MICRO-COAXIAL CABLE

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

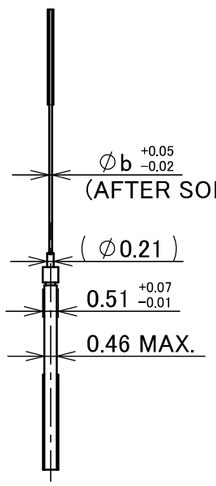
CHARACTERISTIC IMPEDANCE UN-MATCHING MICRO-COAXIAL CABLE

	a
#36	0.15

MICRO-COAXIAL CABLE #36 : NOT RECOMMENDED FOR HIGH SPEED SIGNAL TRANSFER



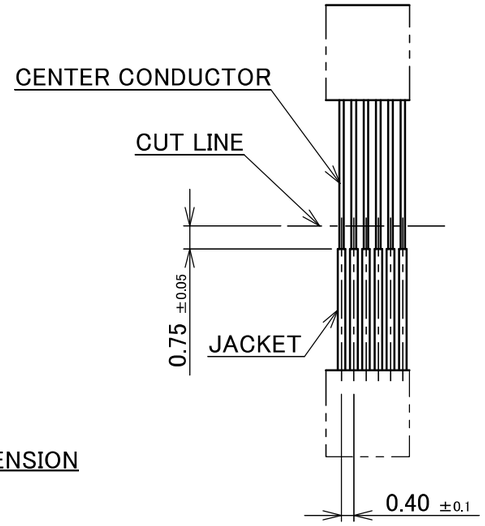
RECOMMENDED TWINAXIAL CABLE DIM.



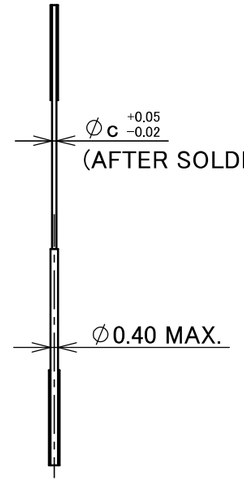
TWINAXIAL CABLE AWG #**

TWINAXIAL CABLE DIMENSION

	b
#40	0.09
#42	0.075



RECOMMENDED DISCRETE WIRE DIM.



DISCRETE WIRE AWG #**

DISCRETE WIRE DIMENSION

	c
#34	0.192
#36	0.15

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R3R2R2R0
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		

GENERAL TOLERANCE.

DWG. DATE

CHK.

APP.

TITLE: CABLINE®-UM PLUG CABLE ASSEMBLY

DWG. No. 20877

CUSTOMER COPY

SCALE 5:1 | UNIT mm | SIZE A3 | SHEET 5/5 | REV. 17

I-PEX