Recommended P/N	20453-2**T-03(20P/30P/40P)	20453-250T-03S(50P)

PART NO.	Pos.	A	B	C	D	E	F	G	H
20453-#20T-#1	20	9.50	10.30	12.56	16.00	16.15	13.00	17.55	14.45
20453-#30T-#1	30	14.50	15.30	17.56	21.00	21.15	18.00	22.55	19.45
20453-#40T-#1	40	19.50	20.30	22.56	26.00	26.15	23.00	27.55	24.45
20453-#50T-#1S	50	24.50	25.30	27.56	31.00	31.15	28.00	32.55	29.45

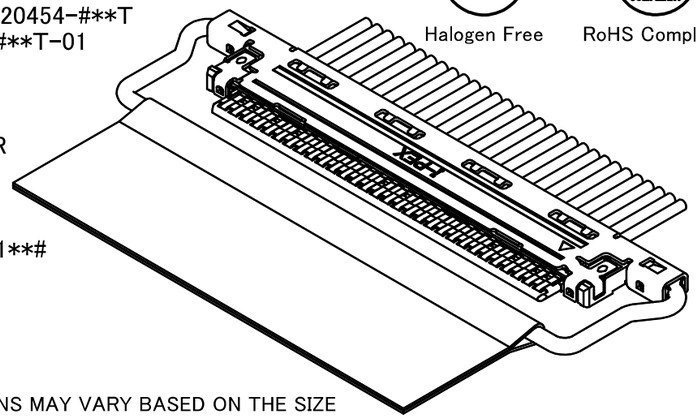
WITH PULL-BAR & PULL-TAPE

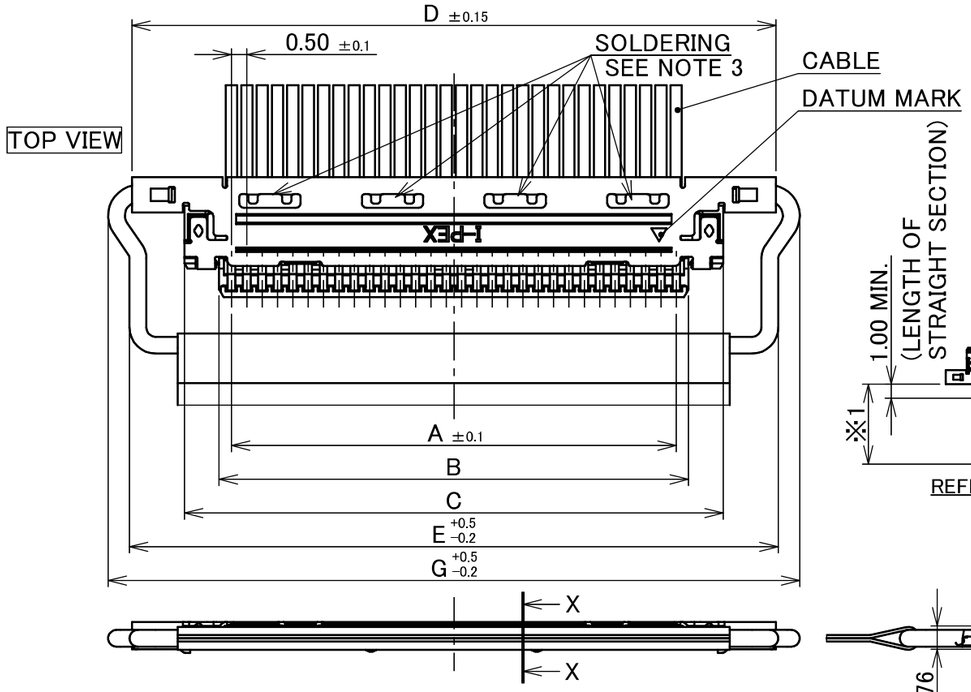
HF Halogen Free

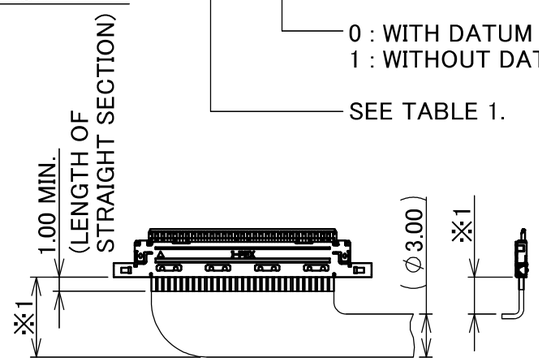
RoHS COMPLIANT RoHS Compliant

P/N:20453- # **T-# # #

- NOTHING : HOUSING ASSEMBLY P/N 20454-#**T
  S : HOUSING ASSEMBLY P/N 20454-#**T-01
- 1 : WITH PULL-BAR P/N 2576-0**-00
  2 : WITHOUT PULL-BAR
  3 : WITH INSULATION COAT PULL-BAR P/N 2576-1**-00
- 0 : WITH DATUM MARK P/N 2574-0**#
  1 : WITHOUT DATUM MARK P/N 2574-1**#
- SEE TABLE 1.

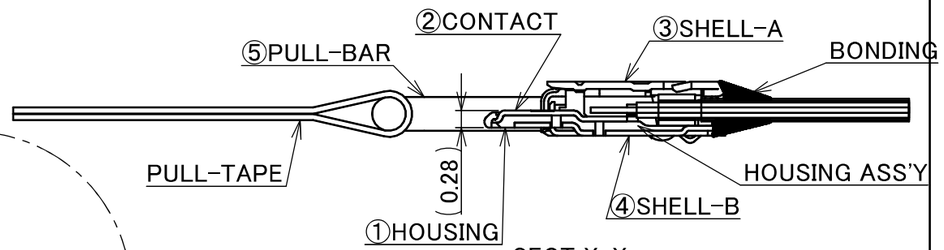




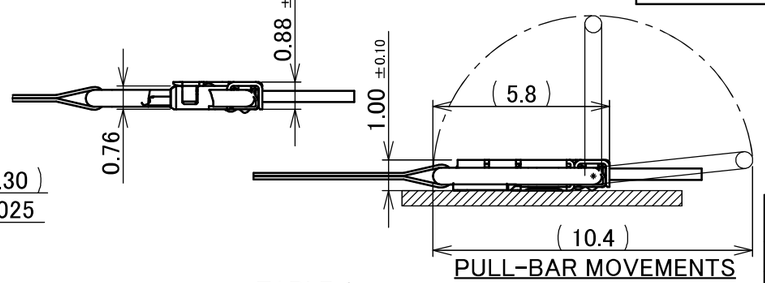


REFFERENCE CABLE BENDING DIMENTIONS

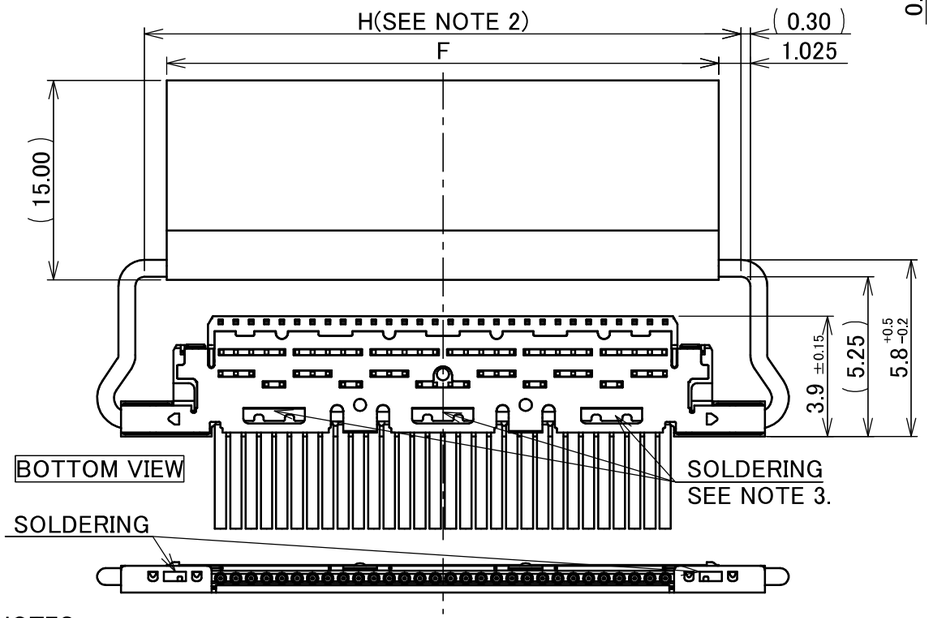
※1: THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES.
PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.



SECT X-X
S= 10 : 1



PULL-BAR MOVEMENTS



NOTES.
1.RECOMMENDED PULL-TAPE
PULL-TAPE : TERAOKA's INSULATION TAPE No.650S(#50) t=0.08
2.PULL-TAPE CAN BE PUT WITHIN THE RANGE OF "H"(STRAIGHT AREA)
3.SOLDERING IS ONLY A CASE WITH GND-BAR

PATENT REGISTERED

PART NO.

CABLE ASSEMBLY PART NO.	HOUSING ASSEMBLY PART NO.	SHELL-A PART NO.	PULL-BAR PART NO.
20453-0**T-#1#	20454-0**T-##	2574-#**	2576-0**-00
20453-2**T-#1#	20454-2**T-##	2574-#**2	2576-0**-00

TABLE 1

PART NO.	CONTACT FINISH	SHELL-A FINISH	SHELL-B FINISH
20453-0**T-###	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.	TOP SIDE : Au 0.05 μm MIN. OVER Ni 1.00 μm MIN. BOTTOM SIDE : Au 0.015 μm MIN. OVER Ni 1.00 μm MIN.	TOP SIDE : Au 0.015 μm MIN. OVER Ni 1.00 μm MIN. BOTTOM SIDE : Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
20453-2**T-###	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.	TOP SIDE : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN. BOTTOM SIDE : Ni 1.00 μm MIN.(THERE IS THE POSSIBILITY THAT Au ATTACHES RANDOMLY)	TOP SIDE : Ni 1.00 μm MIN.(THERE IS THE POSSIBILITY THAT Au ATTACHES RANDOMLY) BOTTOM SIDE : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
5	PULL-BAR	SUS	
4	SHELL-B	PHOSPHOR BRONZE	SEE ABOVE TABLE 1.
3	SHELL-A	PHOSPHOR BRONZE	SEE ABOVE TABLE 1.
2	CONTACT	PHOSPHOR BRONZE	SEE ABOVE TABLE 1.
1	HOUSING	LCP	UL94V-0, BLACK

REV.	ECN	BY	DATE	APP.
38	Z250907	Y.I	2025/06/09	M.T
37	Z250299	K.Ta	2025/02/26	T.M
36	Z241657	T.Ono	2024/11/22	T.M
35	Z241418	T.Ono	2024/10/11	T.M
34	Z231013	T.Ono	2023/09/27	T.M
33	Z211561	R.M	2021/12/21	H.I

REVISION RECORD

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

GENERAL TOLERANCE.

DWG.	H.Ikari
DATE	2007/09/27
CHK.	_
APP.	E.Kawabe

PROJECTION | SERIES No. R12R3R0 | CUSTOMER COPY

TITLE: CABLINE®-VS PLUG CABLE ASSEMBLY

SCALE	UNIT	SIZE	SHEET	REV.
5:1	mm	A3	1/6	38

DWG. No. 20453

I-PEX

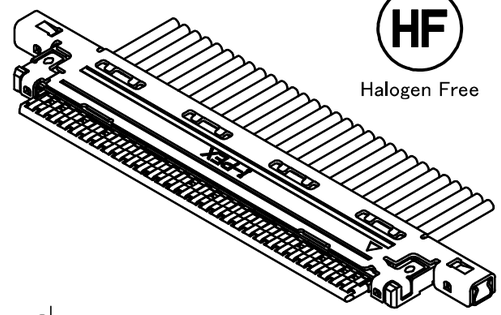
Recommended P/N	20453-2**T-03(20P/30P/40P)	20453-250T-03S(50P)

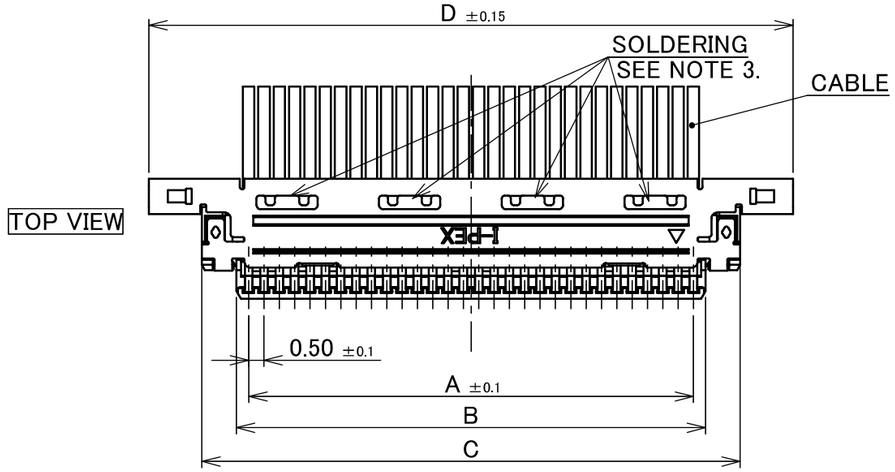
PART NO.	Pos.	A	B	C	D
20453-#20T-#2	20	9.50	10.30	12.56	16.00
20453-#30T-#2	30	14.50	15.30	17.56	21.00
20453-#40T-#2	40	19.50	20.30	22.56	26.00
20453-#50T-#2S	50	24.50	25.30	27.56	31.00

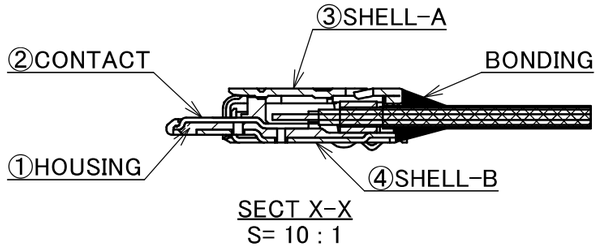
WITHOUT PULL-BAR

HF Halogen Free

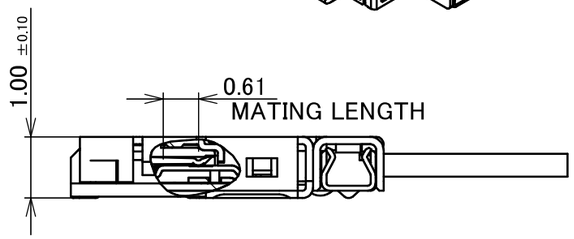
RoHS Compliant



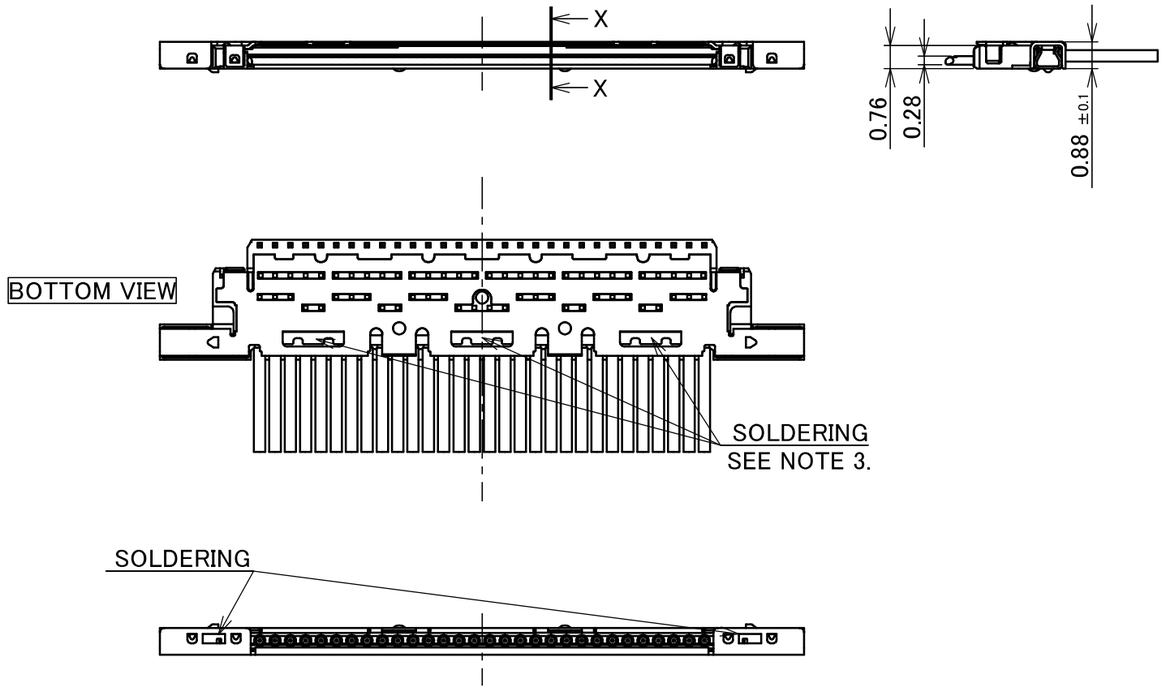




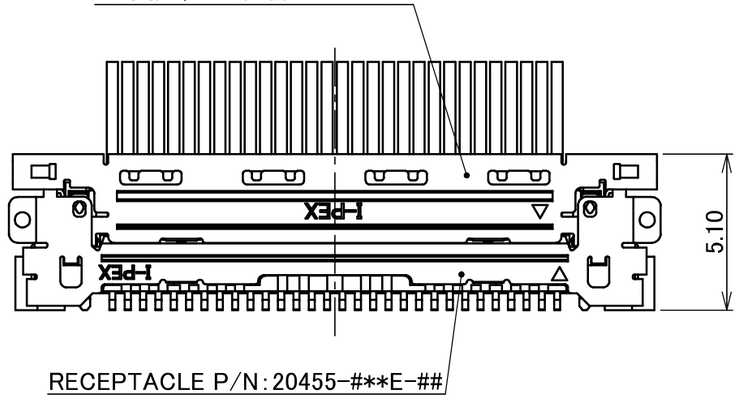
SECT X-X
S= 10 : 1



MATING CONDITION



PLUG P/N:20453-#**T-#2#



RECEPTACLE P/N:20455-#**E-##

PATENT REGISTERED

PART NO.

CABLE ASSEMBLY PART NO.	HOUSING ASSEMBLY PART NO.	SHELL-A PART NO.	PULL-BAR PART NO.
20453-0**T-#2#	20454-0**T-##	2574-#**	-
20453-2**T-#2#	20454-2**T-##	2574-#**2	-

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R12R3R0
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		CUSTOMER COPY

GENERAL TOLERANCE.

DWG. DATE

CHK.

APP.

TITLE: CABLINE®-VS PLUG CABLE ASSEMBLY

SCALE 5:1 | UNIT mm

DWG. No. 20453 | SIZE A3 | SHEET 2/6 | REV. 38

I-PEX

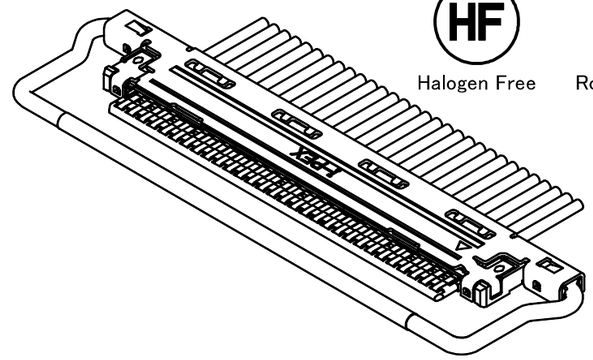
Recommended P/N	20453-2**T-03(20P/30P/40P)	20453-250T-03S(50P)

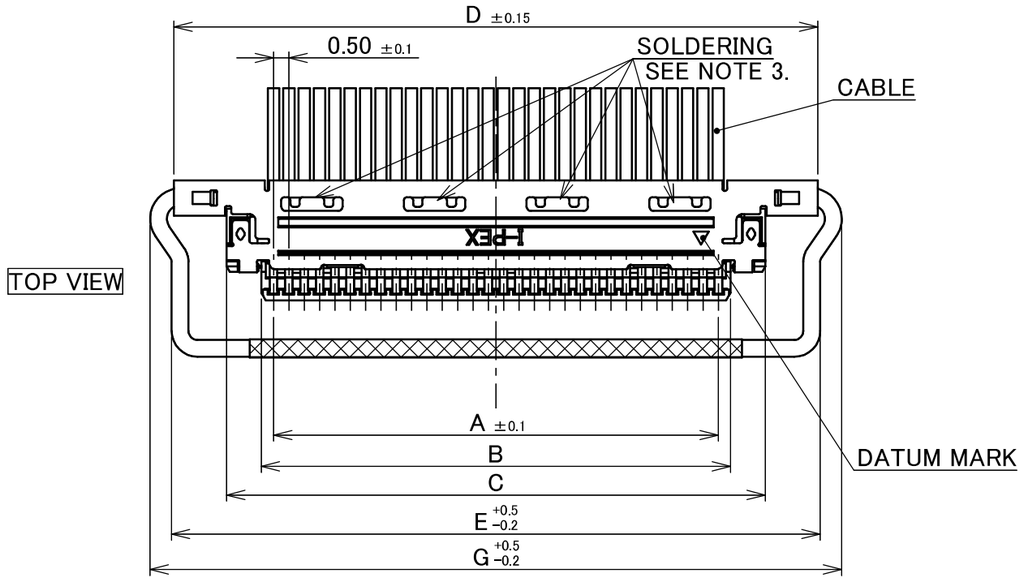
PART NO.	Pos.	A	B	C	D	E	G
20453-#20T-#3	20	9.50	10.30	12.56	16.00	16.15	17.55
20453-#30T-#3	30	14.50	15.30	17.56	21.00	21.15	22.55
20453-#40T-#3	40	19.50	20.30	22.56	26.00	26.15	27.55
20453-#50T-#3S	50	24.50	25.30	27.56	31.00	31.15	32.55

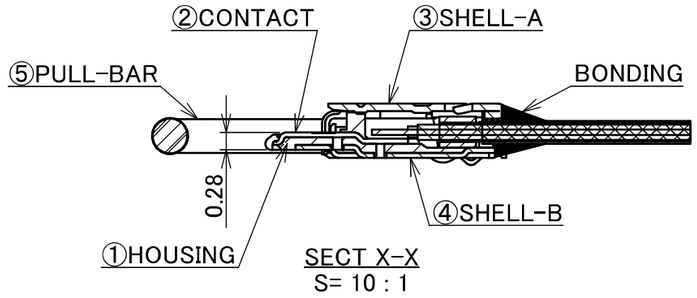
WITH INSULATION COAT PULL-BAR

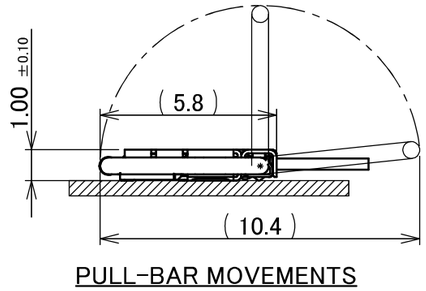
HF Halogen Free

RoHS Compliant

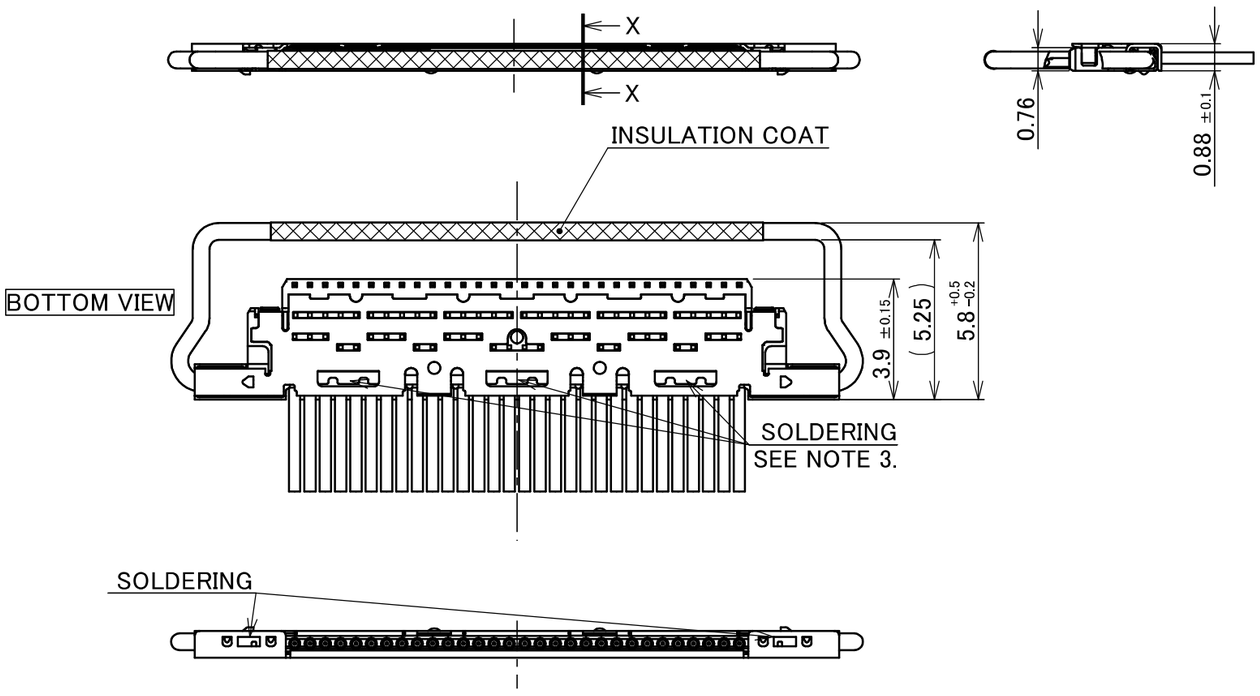








PULL-BAR MOVEMENTS



PATENT REGISTERED

PART NO.

CABLE ASSEMBLY PART NO.	HOUSING ASEMBLY PART NO.	SHELL-A PART NO.	PULL-BAR PART NO.
20453-0**T-#3#	20454-0**T-##	2574-#**	2576-1**-00
20453-2**T-#3#	20454-2**T-##	2574-#**2	2576-1**-00

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R12R3R0
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		CUSTOMER COPY

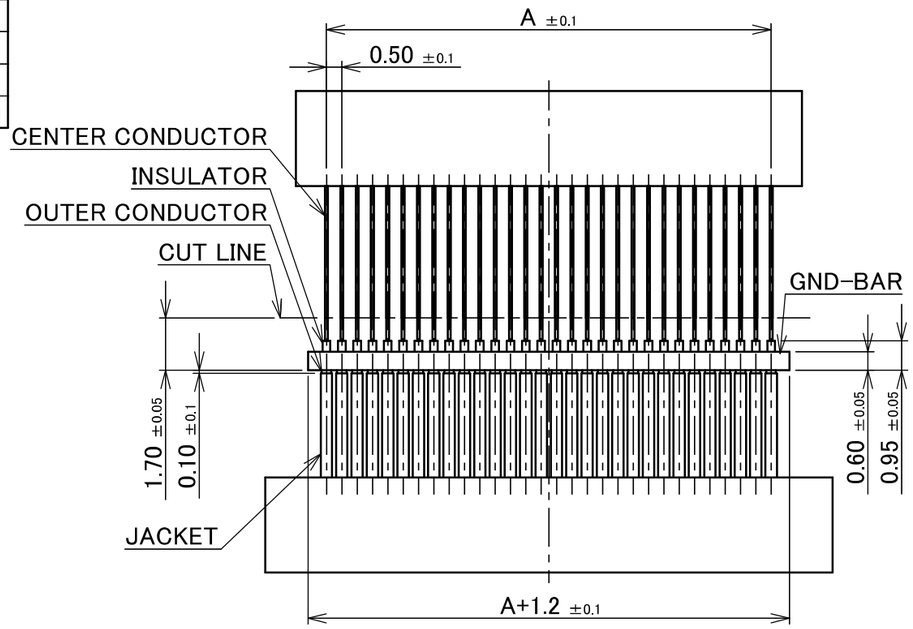
GENERAL TOLERANCE.

DWG. / DATE	TITLE: CABLINE®-VS PLUG CABLE ASSEMBLY	SCALE 5:1	I-PEX
CHK.		UNIT mm	
APP.	DWG. No. 20453	SIZE A3	SHEET 3/6 — REV. 38

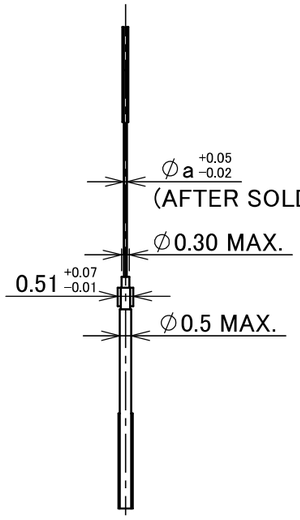
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG #44, 42, 40, 38, 36 DISCRETE WIRE : AWG #36, 34, 32 TWINAXIAL CABLE : AWG #40
RATED VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATED CURRENT (FOR CONTACT)	0.1A AC/DC [AWG #44] PER CONTACT PIN/UP TO 50 CONTACTS 0.24A AC/DC [AWG #42] PER CONTACT PIN/UP TO 50 CONTACTS 0.3A AC/DC [AWG #40] PER CONTACT PIN/UP TO 50 CONTACTS 0.5A AC/DC [AWG #38] PER CONTACT PIN/UP TO 14 CONTACTS 0.8A AC/DC [AWG #36] PER CONTACT PIN/UP TO 10 CONTACTS 1.0A AC/DC [AWG #34] PER CONTACT PIN/UP TO 6 CONTACTS 1.0A AC/DC [AWG #32] PER CONTACT PIN/UP TO 6 CONTACTS TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERTURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233 TO 358K(-40℃ TO +85℃)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 140mohm MAX.(AWG #32) / AFTER TEST : ⊿40mohm MAX. 180mohm MAX.(AWG #34) 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	AC 250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	20P : 9.45N MAX. 30P : 12.15N MAX. 40P : 16.20N MAX. 50P : 20.25N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	20P : 2.0N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN.
CABLE RETENTION FORCE	20P : 9.80N MIN. 30P : 14.70N MIN. 40P : 19.60N MIN. 50P : 24.50N MIN.
PRODUCT SPECIFICATION	PRS-1427
TEST REPORT	TR-08047 (20453-0**T-###) / TR-13084 (20453-2**T-###)
INSTRUCTION MANUAL	HIM-08004
ASSEMBLY MANUAL	ASM-08003
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		R12R3R0		
GENERAL TOLERANCE.				TITLE		SCALE	
DWG.		DATE		CABLINE®-VS PLUG CABLE ASSEMBLY		UNIT mm	I-PEX
CHK.							
APP.				DWG. No.		SIZE	SHEET / REV.
				20453		A3	4/6 / 38

PART NO.	Pos.	A
20453-#20T-##	20	9.50
20453-#30T-##	30	14.50
20453-#40T-##	40	19.50
20453-#50T-##S	50	24.50



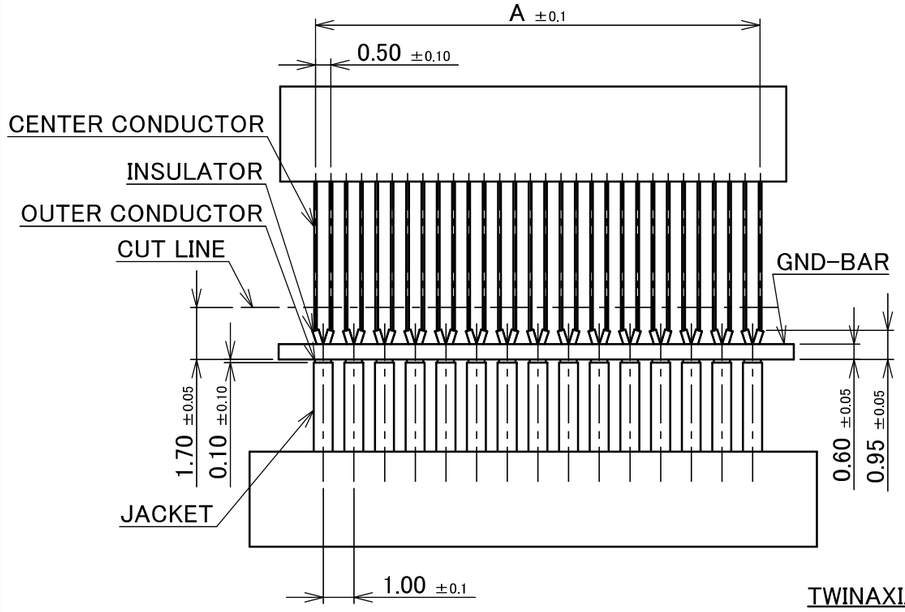
RECOMMENDED MICRO-COAXIAL CABLE DIMENSION



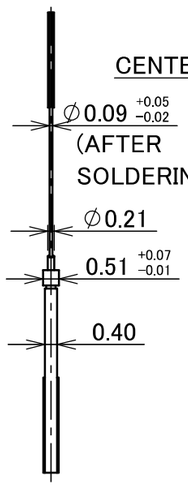
MICRO-COAXIAL CABLE AWG #**

MICRO-COAXIAL CABLE DIMENSION

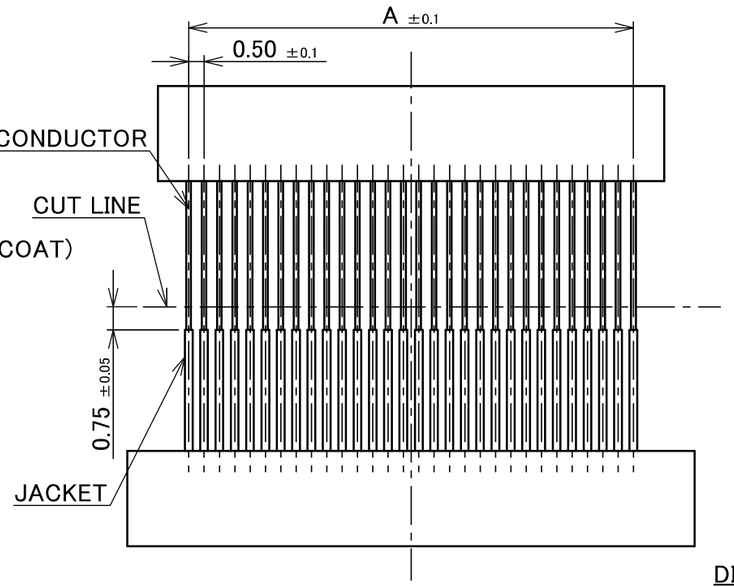
	a
#36	0.15
#38	0.12
#40	0.09
#42	0.075
#44	0.063



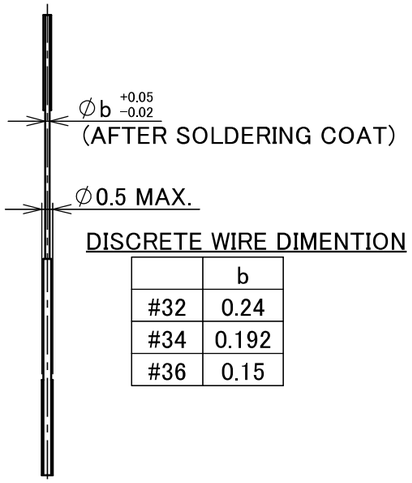
RECOMMENDED TWINAXIAL CABLE DIMENSION



TWINAXIAL CABLE AWG #40



RECOMMENDED DISCRETE WIRE DIMENSION



DISCRETE WIRE DIMENTION

	b
#32	0.24
#34	0.192
#36	0.15

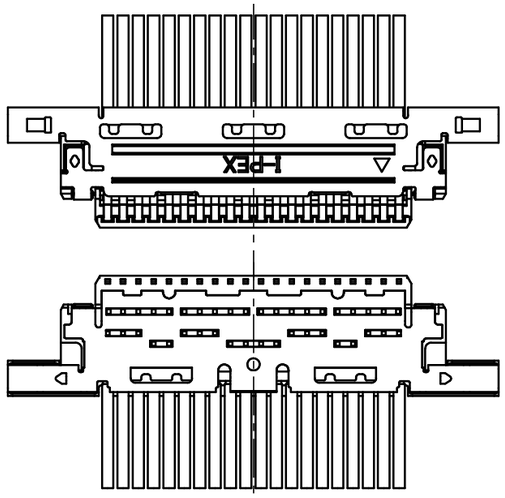
DISCRETE WIRE AWG #**

ANGLE ±2°	6 OVER 30 MAX. ±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX. ±0.2	30 OVER 120 MAX. ±0.5		R12R3R0		
GENERAL TOLERANCE.		TITLE		SCALE	
DWG. DATE		CABLINE®-VS PLUG CABLE ASSEMBLY		5:1	I-PEX
CHK.				UNIT mm	
APP.		DWG. No. 20453		SIZE A3	SHEET 5/6 REV. 38

THE EXTERNAL APPEARANCE

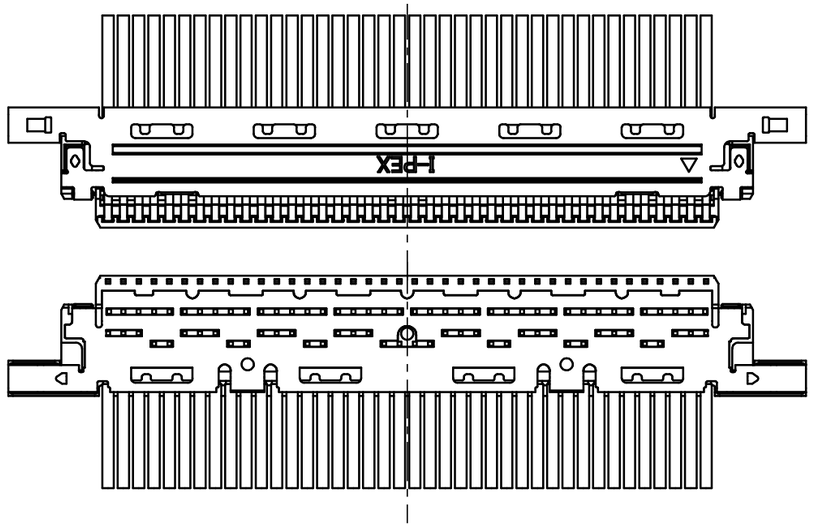
20P

TOP VIEW



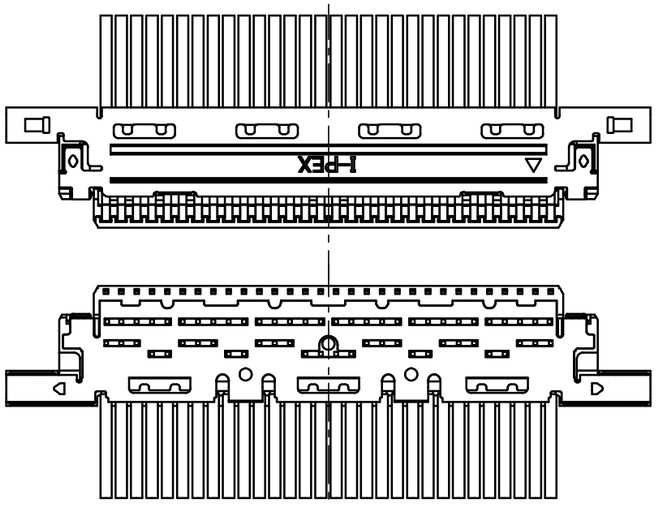
BOTTOM VIEW

40P



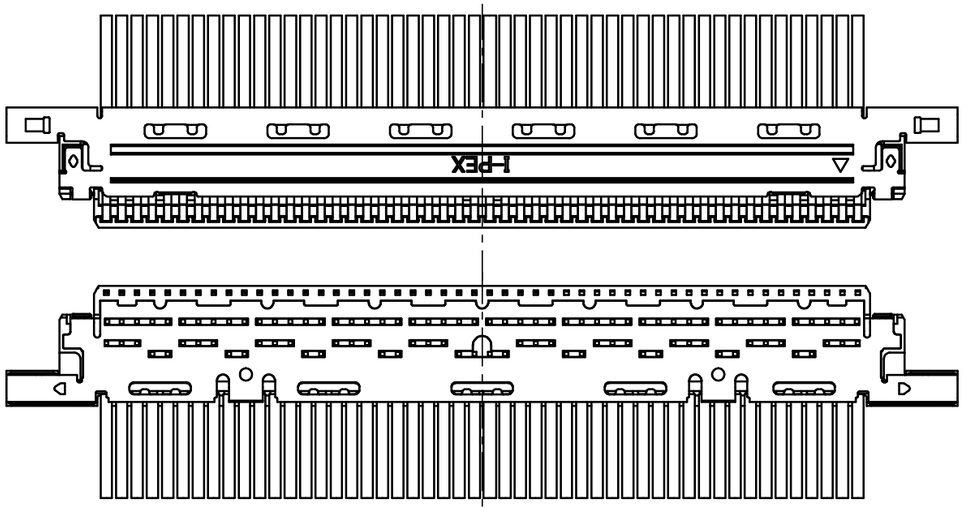
30P

TOP VIEW



BOTTOM VIEW

50P



ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R12R3R0		
GENERAL TOLERANCE.				TITLE		SCALE	
DWG.		DATE		CABLINE®-VS PLUG CABLE ASSEMBLY		5:1	I-PEX
CHK.						UNIT mm	
APP.				DWG. No. 20453		SIZE A3	SHEET 6/6 REV. 38