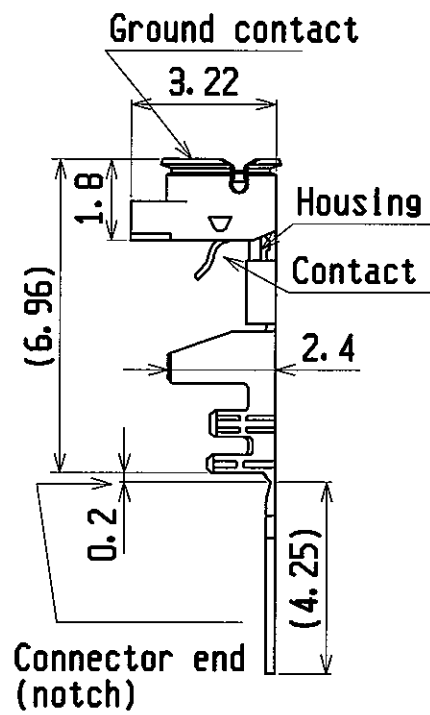
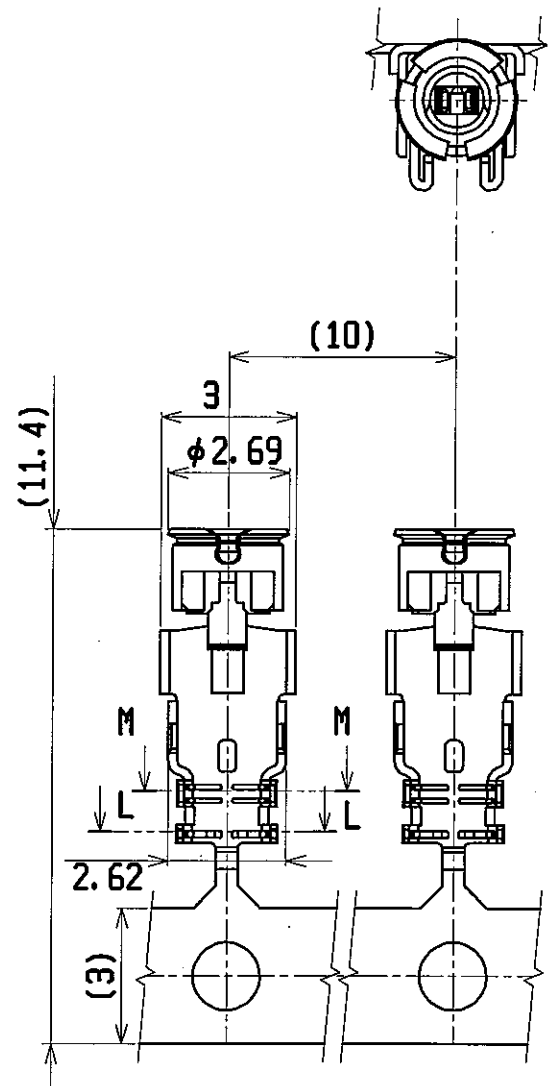
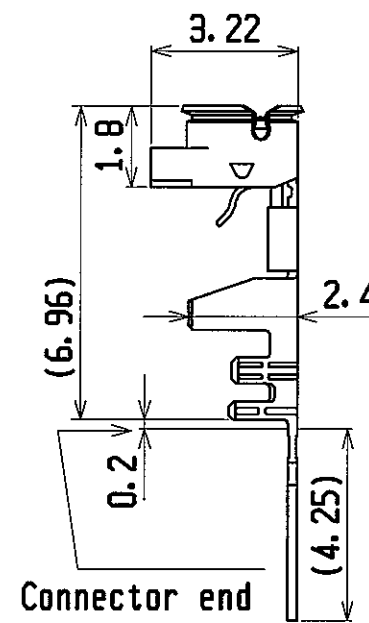


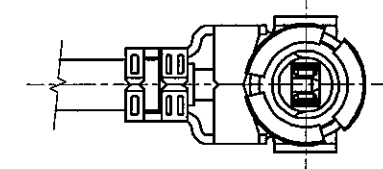
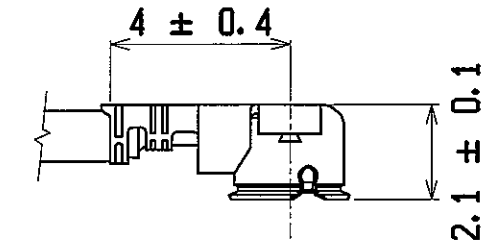
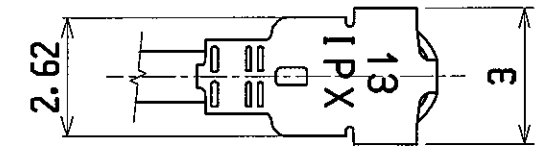
PART NO.  
20278-1R-1R-...



Part No. 20278-101R-08  
20278-101R-13  
20278-101R-32  
For hand tool  
(with notch)

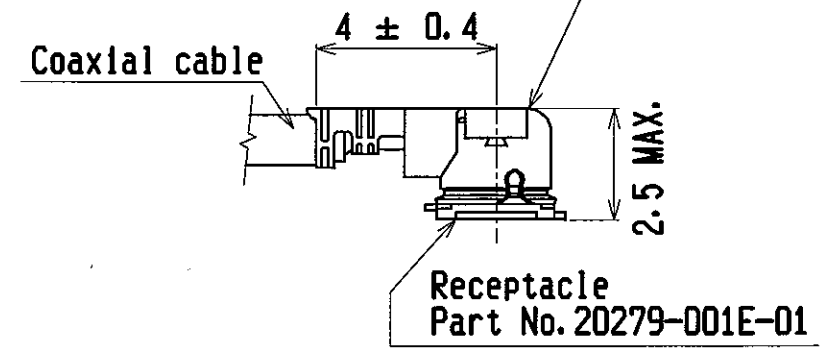


Part No. 20278-111R-08  
20278-111R-13  
20278-111R-32  
For semi auto  
termination machine  
(without notch)



Cable Ass'y

Plug  
P/N 20278-1.1R-08  
P/N 20278-1.1R-13  
P/N 20278-1.1R-32



MATING

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

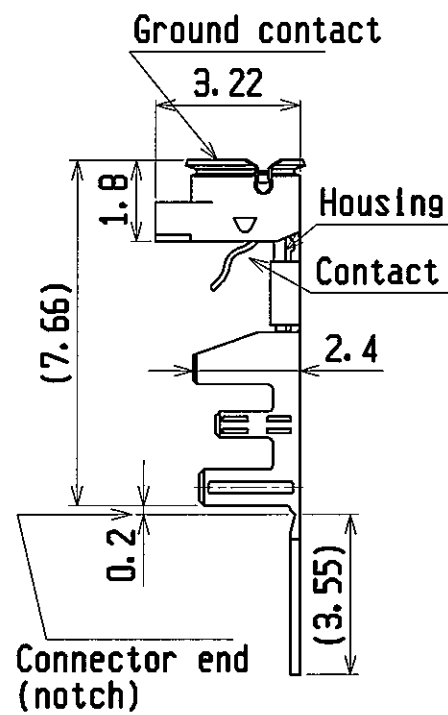
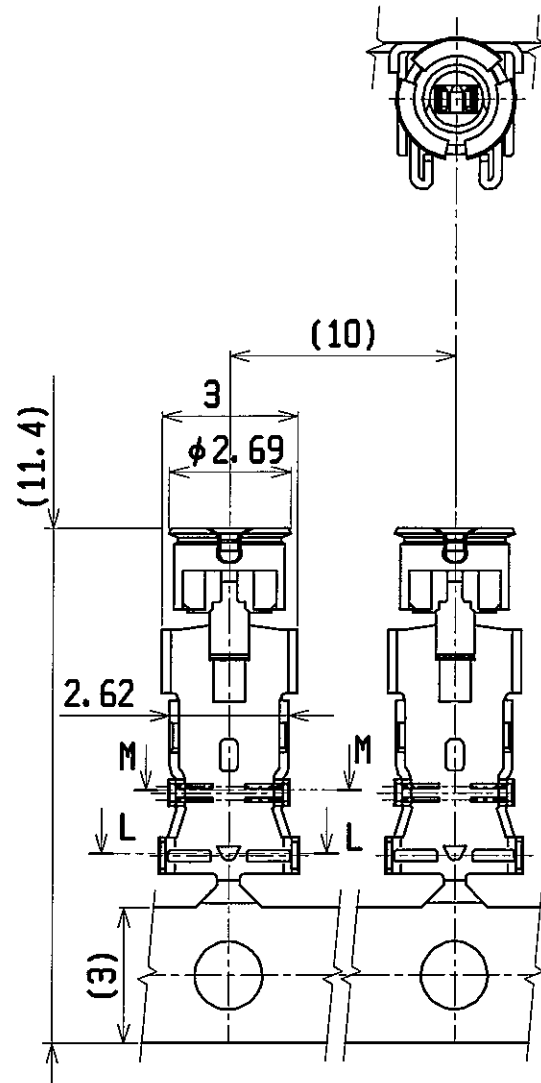
REV	ECN	BY	DATE	APP	REV	ECN	BY	DATE	APP	SERIES No.
17C	Z05233	K.O	May/18/05	J.H	11C	Z3041	K.O	Mar/24/03	K.K	4
16C	Z05024	K.O	Jan/20/05	T.H	10C	Z3014	K.O	JAN/31/03	K.K	3
15C	Z04398	K.O	Nov/12/04	T.H	9C	Z2239	K.O	NOV/15/02	E.K	2
14C	Z04339	K.O	Oct/01/04	T.H	8C	Z2224	K.O	OCT/17/02	E.K	1
13C	Z3074	A.H	May/22/03	K.K	7B	Z2180	K.O	JUL/29/02	E.K	0
12C	Z3052	K.O	Apr/16/03	K.K	6B	Z2146	K.O	JUN/24/02	K.K	REV
					5B	Z2117	A.H	MAY/17/02	K.K	ECN
										BY
										DATE
										APP

DESIGN'D BY	DATE
K. Ohbayashi	JUN/13/01
CHK'D BY	DATE
APP'D BY	DATE
K. Katabuchi	JUN/13/01
CUSTOMER COPY	PROJECTION
	6/1

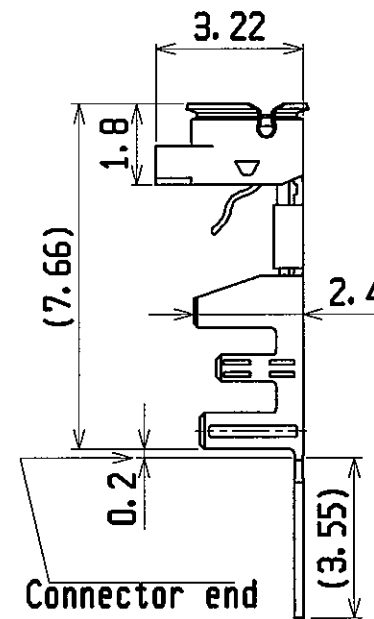
**I-PEX** Interconnect and Packaging Electronics TOKYO, JAPAN

TITLE MHF series micro coaxial connector plug vertical (ground contact : gold plating)  
SCALE 6/1 UNIT mm DWG. No. 20278 SHEET 1/4 REV. 17C

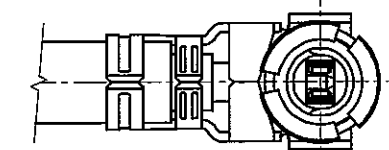
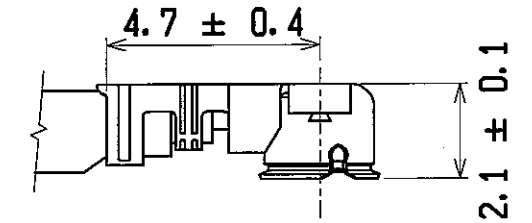
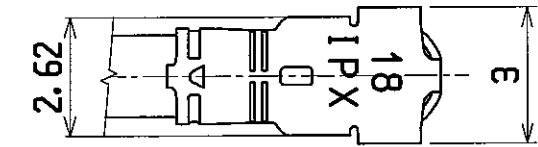
PART NO.  
20278-1R-18



Part No. 20278-101R-18  
For handtool  
(with notch)

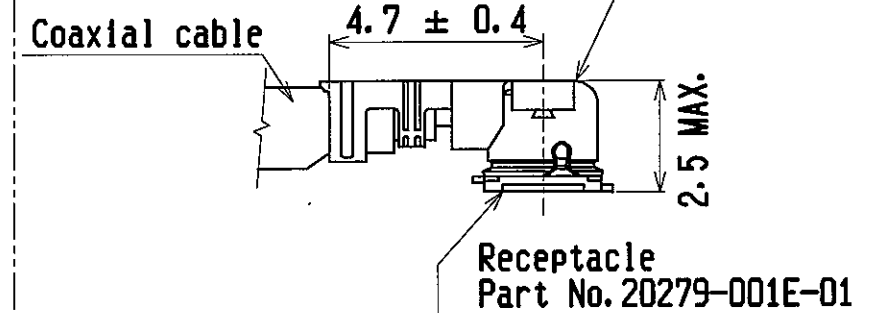


Part No. 20278-111R-18  
For semi auto  
termination machine  
(without notch)



Cable Ass'y

Plug  
P/N 20278-1R-18



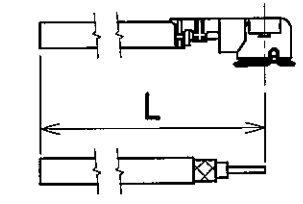
MATING

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

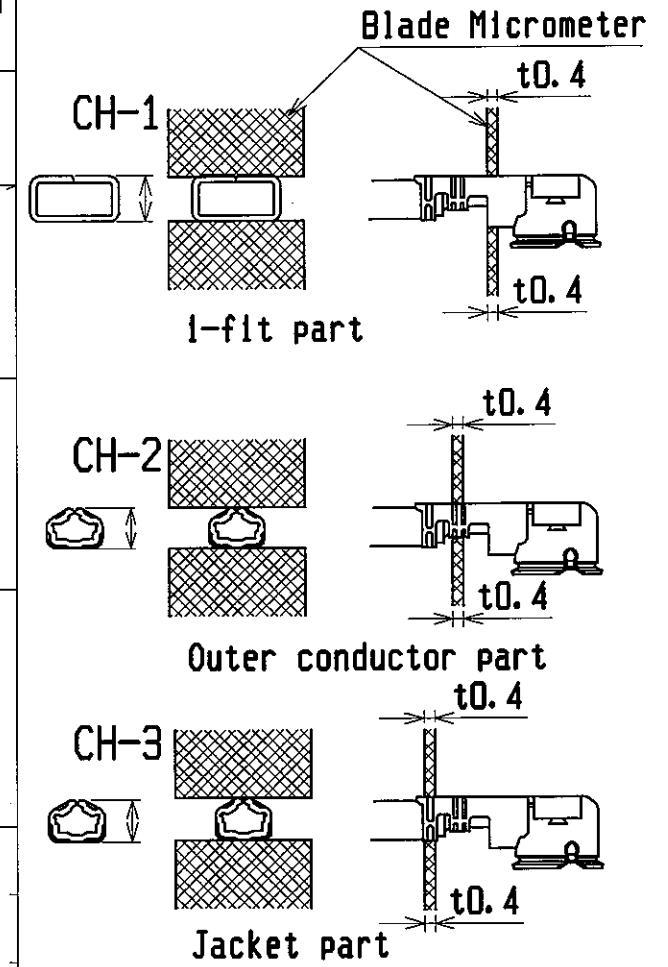
DESIGN D BY	DATE	 Interconnect and Packaging Electronics TOKYO, JAPAN								
CHK D BY	DATE									
APP D BY	DATE									
REV	ECN	BY	DATE	APP	TITLE	SCALE	UNIT	DWG. No.	SHEET	REV.
					MHF series micro coaxial connector plug vertical (ground contact : gold plating)	6/1	mm	20278	2/4	17C
REV. RECORD					CUSTOMER COPY	PROJECTION				
SERIES No. 2814										

Part No.	20278-101R-08 20278-111R-08	20278-101R-13 20278-111R-13	20278-101R-32 20278-111R-32	20278-101R-18 20278-111R-18	
Housing color	White	Black	Black	White	
Applicable cable nominal dimension	<p>2.09±0.1 1.25±0.1 1.16±0.1 φ0.81 Nominal (φ0.65) φ0.4 Nominal ANG#36(7/0.05)</p> <p>* NOTE-1</p>	<p>2.09±0.1 1.25±0.1 1.16±0.1 φ1.13 Nominal (φ0.93) φ0.68 Nominal ANG#32(7/0.08)</p> <p>* NOTE-1</p>	<p>2.09±0.1 1.25±0.1 1.16±0.1 φ1.32 Nominal (φ1.12) φ0.66 Nominal ANG#32(7/0.08)</p> <p>* NOTE-1</p>	<p>2.09±0.1 1.25±0.1 1.16±0.1 RG178 B/U φ1.8 Nominal (φ1.35) φ0.84 Nominal ANG#30(7/0.102)</p> <p>* NOTE-1</p>	
Braided shield of Outer conductor 外部導体の編組	Single / 1重編組	Single / 1重編組	Double / 2重編組	Single / 1重編組	
P/N of hand Tool	90187-008C	90187-013C	90187-032C	90233-018	
P/N of semi auto termination machine	90213-008C	90213-013C	90213-032C	90232-018	
Sect. M-M	<p>1.68 1.12</p>	<p>2.24 1.48</p>	<p>2.29 1.56</p>	<p>2.71 1.9</p>	
Sect. L-L	<p>1.72 1.19</p>	<p>2.28 1.55</p>	<p>2.37 1.71</p>	<p>3.1 2.26</p>	
Crimp Height	CH-1	1.34~1.40	1.34~1.40	1.34~1.40	1.34~1.40
	CH-2	0.76~0.84	1.06~1.14	1.20~1.30	1.41~1.49
	CH-3	0.85~0.97	1.15~1.35	1.26~1.46	1.70~1.80

Cable cut length



Crimp Height



NOTE-1  
中心導体, 外部導体への半田コーティングは不可  
Must not use solder coated  
Inner conductor and outer conductor.

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

DESIGN D BY	DATE			
CHK D BY	DATE			
APP D BY	DATE			
REV	ECN	BY	DATE	APP
REV. RECORD				
SERIES No.		2814		
CUSTOMER COPY		PROJECTION		

**I-PEX** Interconnect and Packaging Electronics TOKYO, JAPAN

TITLE MHF series micro coaxial connector plug vertical (ground contact : gold plating)

SCALE UNIT DWG. No. SHEET REV.  
-/- mm 20278 3/4 17C

Notes

1. Material

(1) Housing : PBT , UL94V-0

(2) Contact

phosphor bronze  
gold plating 0.1 $\mu$ m MIN.  
over nickel 1.27 $\mu$ m MIN.

(3) Ground contact

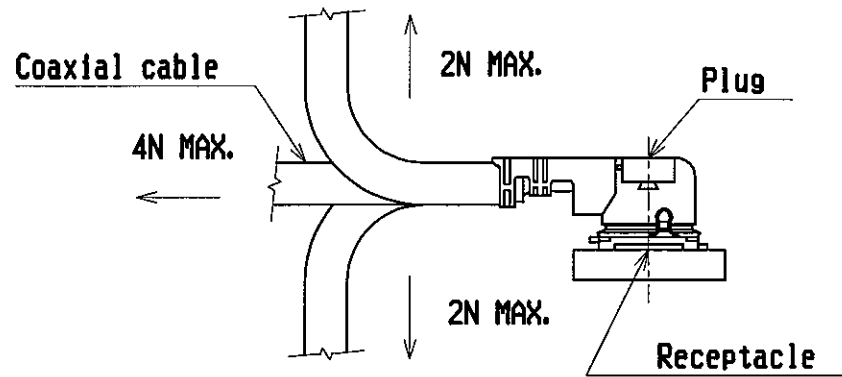
phosphor bronze  
gold plating 0.05 $\mu$ m MIN.  
over nickel 1.27 $\mu$ m MIN.

2. Packing : reel

3. Mating partner part No.

: 20279-001E-01

4. Permissible load of cable at mating



5. Suggestions for mating & unmating operation.

5-1 Mating.

Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle.

As excessive slant angle mating may break the connector , please don't do it.

1. 材料

(1) ハウジング : PBT , UL94V-0

(2) コンタクト

りん青銅  
金メッキ0.1 $\mu$ m MIN.  
下地 ニッケル1.27 $\mu$ m MIN.

(3) グランドコンタクト

りん青銅  
金メッキ0.05 $\mu$ m MIN.  
下地 ニッケル1.27 $\mu$ m MIN.

2. 梱包 : リール

3. かん合相手 part No.

: 20279-001E-01

4. コネクタかん合後のケーブルに対する荷重

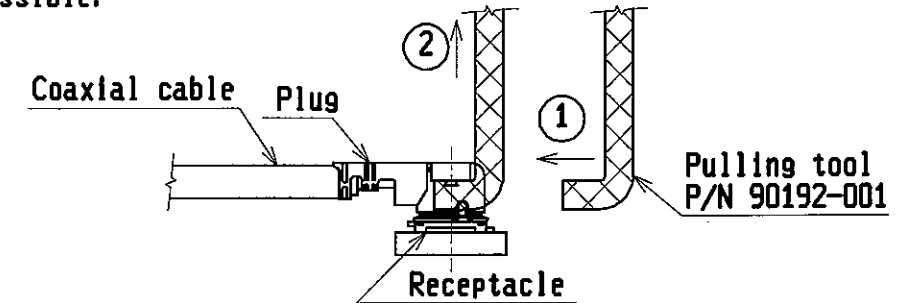
5. コネクタかん合時および抜去時の注意

5-1 コネクタ挿入時

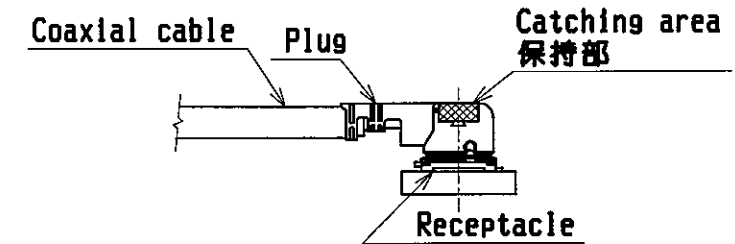
PlugとReceptacleのかん合軸を合わせ、できるだけ垂直に挿入して下さい。極端な斜め挿入は行わないで下さい。コネクタ破損の原因となりますので、過度なこじり挿入は行わないで下さい。

5-2 Unmating.

(1) In case of unmating by pulling tool.  
Please use the pulling tool as the following drawing, and please pull plug to vertical direction as directly as possible.



(2) In case of unmating directly by hand  
Please catch the catching area of plug , and please pull plug to vertical direction as directly as possible.



5-2 コネクタ抜去時

(1) 抜去ジグを用いる場合  
下図のようにできるだけ垂直に引き抜いて下さい。

(2) 手で直接引き抜く場合  
下図の保持部をつかみ、できるだけ垂直に引き抜いて下さい。

5-3 Crimp over standards of outer conductor

Standards: Less than 10% from total numbers of outer conductor  
(Numbers of outer conductor's crimp over from outer conductor's barrel)

5-4 Caution about Heat shrinkage tubes

Please be careful not to melt housing when using heat shrinkage tubes.  
It will become cause of open circuit.

6. This is 'Pb-free' connector.

5-3 外部導体はみ出し量



外部導体はみ出し量規定 : 外部導体トータル本数の10%以下 (外部導体パレルの外にはみ出し量)

5-4 熱収縮チューブについての注意

熱収縮チューブで外部導体を覆う場合は、導通不良の原因となりますので、熱によりハウジングを溶融させないよう注意してください。

6. 本コネクタは 'Pb-free' である

GENERAL TOLERANCE	
6 MAX.	$\pm 0.2$
6 OVER MAX. 30	$\pm 0.3$
30 OVER MAX. 120	$\pm 0.5$
ANGLE	$\pm 2^\circ$

DESIGN D BY	DATE	 <b>I-PEX</b> Interconnect and Packaging Electronics TOKYO, JAPAN								
CHK' D BY	DATE									
APP' D BY	DATE									
REV	ECN	BY	DATE	APP	TITLE	SCALE	UNIT	DWG. No.	SHEET	REV.
REV. RECORD					CUSTOMER COPY	PROJECTION	UNIT	DWG. No.	SHEET	REV.
SERIES No. 2814							mm	20278	4/4	17C