

sheet	revision	index	sheet
H	1	1	1
F	2	2	2
B	3	3	3
H	4	4	4

code	description	date	author
H	19038	10/27/74	J. T. SAO
F	17017	09/07/73	T. CHEN
F	17016	08/15/73	T. CHEN
F	16434	06/19/73	T. CHEN
D	16038	06/19/73	T. CHEN
C	13075	12/01/72	T. CHEN

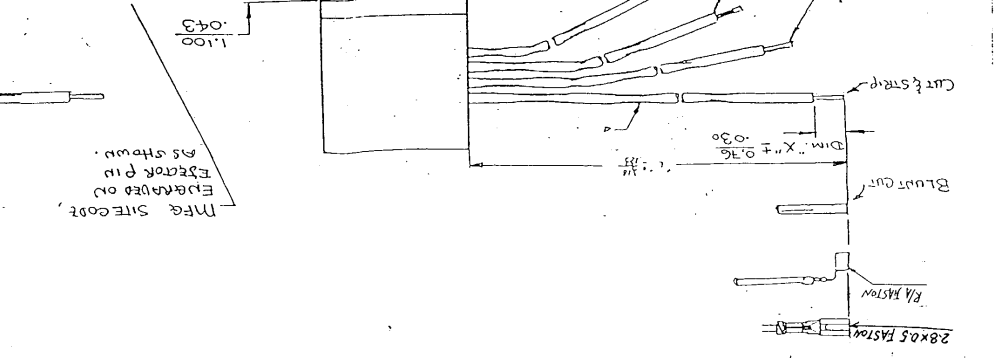
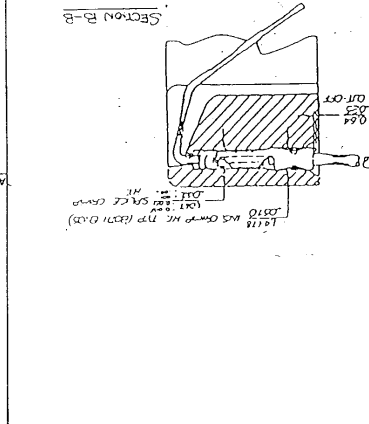
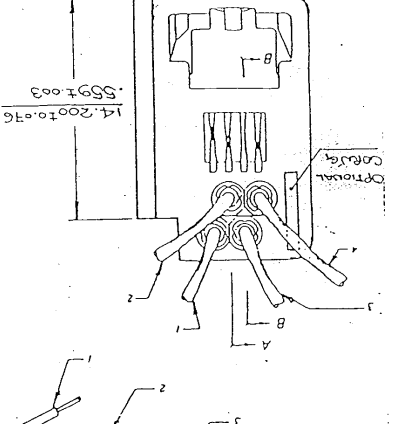
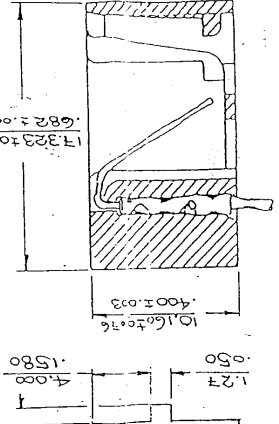
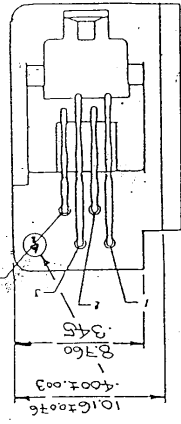
  

code	description	date	author
H	19038	10/27/74	J. T. SAO
F	17017	09/07/73	T. CHEN
F	17016	08/15/73	T. CHEN
F	16434	06/19/73	T. CHEN
D	16038	06/19/73	T. CHEN
C	13075	12/01/72	T. CHEN

for tolerance of wire length if not specified

6. ± 3.18/± 2.5 WHEN L ≤ 234.95/9.25  
 ± 0.35/± 0.5 WHEN L > 234.95/9.25

5. 27 AWG. WIRE: PFC UL 1061 AWG 27 OF AWG 26  
 26 AWG. 7 STRANES OF TINNED COPPER WIRE. PVC INSULATION.  
 25 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 24 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 23 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 22 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 21 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 20 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 19 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 18 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 17 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 16 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 15 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 14 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 13 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 12 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 11 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 10 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 9 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 8 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 7 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 6 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 5 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 4 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 3 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 2 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.  
 1 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.



NOTES:

1. FOR VISUAL MECHANICAL AND FUNCTIONAL REQUIREMENTS, SEE PREVIOUS SPECIFICATION.
2. HSG MATL: AGS MABLE CONDUIT FRAME RETRAIABLE PER UL 94-V0 SPRING CONTACT: PHOSPHOR BRONZE ALLOY, PER UL C 51000, 0.46mm/0.18 INCH DIA. PLUNGS SEE CHART. SPLICE: BRASS ALLOY PER UL 26600, PER UL 94-V0 SET CHART.
3. WIRE: PFC UL 1061 AWG 27 OF AWG 26 26 AWG. 7 STRANES OF TINNED COPPER WIRE. PVC INSULATION. 25 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 24 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 23 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 22 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 21 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 20 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 19 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 18 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 17 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 16 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 15 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 14 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 13 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 12 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 11 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 10 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 9 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 8 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 7 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 6 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 5 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 4 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 3 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 2 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION. 1 AWG. 7 STRANES OF TINNED COPPER WIRE. TOP COATED. PVC INSULATION.

MFG SITE CODE  
 ENGR'S PIN  
 AS SHOWN

28x05 Faston  
 RA FASTON  
 BLUNT CUT  
 DIM "X" ± 0.36  
 0.30  
 CUT & STRIP

OPTIONAL CONDUIT

SECTION A-A

PRODUCT NO.  
87178

REV	DESCRIPTION	BY	DATE
2			

PRODUCT NO	POS NO.	COLOR	WIRE LGTH DIM. 'L'	FINISH ON WIRE END	INS. STRIP DIM. 'X'	INS WIRE STYLE	HSE COLOR	HSE MAT'L	SPLICE PLATING	SPRING CONTACT PLATING
87178-001	1	YELLOW	55.00/2.17	CUT & STRIP	3.0 / .12					
	2	GREEN	180.00/7.09	↑	↑	B	LIGHT GRAY	ABS, UL94V-0	UNPLATED	30μ" GXT PLATED
	3	RED	180.00/7.09	↑	↑					
	4	BLACK	55.00/2.17	CUT & STRIP	3.0 / .12					
87178-002	2	RED	100.00/3.94	CUT & STRIP	3.0 / .12	B				
	3	GREEN	100.00/3.94	CUT & STRIP	3.0 / .12					
87178-003	1	BLACK	80.00/3.15	CUT & STRIP	3.0 / .12					
	2	RED	↑	↑	↑	B				30μ" GXT PLATED
	3	GREEN	↑	↑	↑					
	4	YELLOW	80.00/3.15	CUT & STRIP	3.0 / .12					
87178-004	1	RED	70.00/2.76	CUT	—	A				50μ" GOLD PLATED
	2	WHITE	70.00/2.76	↑	—					
	3	GREEN	230.00/9.06	↑	—					
	4	BLACK	230.00/9.06	CUT	—					
87178-005	1	RED	160.00/6.30	CUT & STRIP	5.0 / .20	B			UNPLATED	30μ" GOLD PLATED
	2	WHITE	↑	↑	↑					
	3	GREEN	↑	↑	↑					
	4	BLACK	160.00/6.30	CUT & STRIP	5.0 / .20					
87178-006	1	YELLOW	60.00/2.36	CUT & STRIP	4.0 / .16	B			TIN-LEAD PLATED	30μ" GOLD PLATED
	2	GREEN	↑	↑	↑					
	3	RED	↑	↑	↑					
	4	BLACK	60.00/2.36	CUT & STRIP	4.0 / .16					
87178-007	2	WHITE	180.00/7.09	CUT	—	A	LIGHT GRAY	ABS, UL94V-0	UNPLATED	50μ" GOLD PLATED
	3	GREEN	180.00/7.09	CUT	—					

SHEET INDEX | SH NO | 1 |

CUSTOMER		INSPECTION		TOLERANCES UNLESS OTHERWISE NOTED		INCH	MM	DR	DATE	MAT'L	DU PONT TAIWAN LTD. CHUNG LI TAOYUAN TAIWAN	
NEXT ASSY		USED ON		LINEAR		00 ±	00 ±	RYLW	4/19		TITLE	
APPLICATION		THIRD ANGLE PROJECTION		MM		000 ± .005	0.002 ± .012	ENGR	J.T.S/m	5/14/88	FINISH	616E MOD. JACK ASS'Y
DO NOT SCALE DRAWING		ANGLES ± 0° 30'		RADIUS ± 0.10 / 0.15				APP'D			SCALE	SIZE
										A3		DWG. NO.
												87178
												SHT 2

product no  
SEE CHART

PRODUCT NO.	WIRE POS.	WIRE COLOR	WIRE LNTH "L"	INSULATED WIRE STYLE.	HSG M"TRL & COLOR	FINISH ON WIRE END	INS. STRIP DIM "X"	SPLICE FINISH	SPRING CONTACT PLATING
87178-014	1	RED	40.00/1.575	A	ABS UL94V-0 LIGHT GRAY	STRIP & SOLDER DIP R/A FASTON R/A FASTON STRIP & SOLDER DIP	2.00	TIN-LEAD PLATED	30u" AU
	2	WHITE	200.00/7.874				---		
	3	GREEN	200.00/7.874				---		
	4	BLACK	40.00/1.575				2.00		
87178-015		NOT AVAILABLE YET							
87178-016	1	YELLOW	40.00/1.575	B	ABS UL94V-0 LIGHT GRAY	CUT & STRIP	3.0/.12	UNPLATED	30u" GXT
	2	GREEN	40.00/1.575				↕		
	3	RED	200.00/7.874				↕		
	4	BLACK	200.00/7.874				3.0/.12		
87178-017	1	BROWN	40.00/1.575	B	ABS UL94V-0 LIGHT GRAY	CUT & STRIP CUT & STRIP R/A FASTON R/A FASTON	3.0/.12	UNPLATED	30u" GXT
	2	GREEN	40.00/1.575				3.0/.12		
	3	RED	200.00/7.874				----		
	4	BLACK	200.00/7.874				----		
87178-018	1	YELLOW	40.00/1.575	B	ABS UL94V-0 LIGHT GRAY	CUT & STRIP	3.0/.12	UNPLATED	50u" AU
	2	GREEN	40.00/1.575				↕		
	3	RED	200.00/7.874				↕		
	4	BLACK	200.00/7.874				3.0/.12		

mat'l code SEE NOTE 1		tolerances unless otherwise specified		CUSTOMER COPY		<b>BERG</b> ELECTRONICS	
lr	ecr no	dr	date	linear	0.0-0.25 / .00-0.01	projection	title
C	T30375	TC	120193		0.00-0.13 / 0.00-0.005		616E MOD JACK ASSY
D	T60238	CL	06/10/96		0.000-0.05 / 0.000-0.002		
E	T60434	TC	102996	angles	+0° 30'		
F	T70126	CL	04/01/97	dr	T. CHIEN 090793	mm inch	product family MOD JACK code TWN
				engr	T. CHIEN 090793	←	size (dwg no)
				chr	J. TSAO 090893	→	87178
				appd	J. TSAO 090893	scale	N/A
sheet	revision	PDM: Rev: H		STAT	JS	Released	Printed: Oct 26, 2005

All rights strictly reserved. Reproduction or issue to third parties in any form without the written authority from the proprietor.  
 Propriété de BERG ELECTRONICS  
 Copyright BERG ELECTRONICS by



Tous droits réservés. Toute réimpression ou communication à des tiers sans autorisation écrite du propriétaire.  
 Propriété de BERG ELECTRONICS  
 Droits de reproduction BERG ELECTRONICS by

PRODUCT NO.  
SEE CHART

PRODUCT NO.	WIRE POS.	WIRE COLOR	WIRE LENGTH "L"	INSULATED WIRE STYLE	HSG MAT'L & COLOR	FINISH ON WIRE END	INS. STRIP DIM. "X"	SPLICE FINISH	SPRING CONTACT PLATING
87178-019	1	YELLOW	40.00/1.575	D	ABS UL94V-0 LIGHT GRAY	STRIP & SOLDER DIP	3.0 / .12	UNPLATED	30u" GXT
	2	GREEN	40.00/1.575						
	3	RED	200.00/7.874						
	4	BLACK	200.00/7.874						
87178-020	1	YELLOW	500.00/19.685	B	ABS UL94V-0 LIGHT GRAY	CUT & STRIP	3.0±0.76	UNPLATED	30u" GXT
	2	GREEN	500.00/19.685						
	3	RED	500.00/19.685						
	4	BLACK	500.00/19.685						

mat'l code	tolerance unless otherwise specified	CUSTOMER COPY	BERG ELECTRONICS
rev. ecn no.	dr. date	line or .0 ± 0.25	projection
	angles	± .000 ± 0.05	616E MOD JACK ASSY
	dr. CATHY LIN 04/28/98	unit mtr/inch	product family mod jack
	engr TONY CHIEN 04/28/98	scale	size dwg no. 87178
	chr TONY CHIEN 04/28/98	sheet	sheet 4 of 4
	ppd JENN TSAO 04/28/98	index sheet	