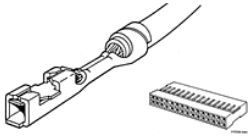


47715-000LF - Mini-PV™, Basics+ : 2.54 mm (0.1 in.) Centerline Crimp-to-Wire Receptacle



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Specifications

General

Product Type	Crimp-to-Wire Contact
Number of contacts (per housing)	10-50
Mating half	Mates with most 2.54 mm (0.1 in.) Centerline Products with 0.64 mm (0.025in.) Square or Round Pins
Series Number	47715

Dimensional

Size (Wire)	22 to 26 AWG
Height (Crimp)	0.81 - 0.86 mm (0.032 - 0.034 in.)
Size Insulation OD (Discrete contact)	0.91 mm (0.036 in.) to 2.62 mm (0.103 in.)
Size Insulation OD (Latch housing application)	0.91 mm (0.036 in.) to 1.52 mm (0.06 in.)
Thickness (Spring)	0.122 mm (0.0048 in.)

Electrical

Current rating	3A Continuous
Resistance (Contact)	15 M-ohms max.
Resistance (Insulation)	5000 M-ohms
Voltage rating	1000V rms

Mechanical

Insertion force	4.41N (450 gf)
Withdrawal Force	0.75N (75 gf)
Spring force	High

Physical

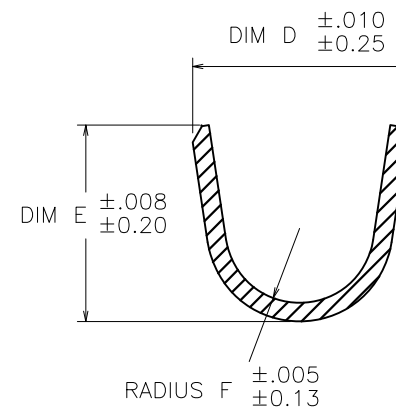
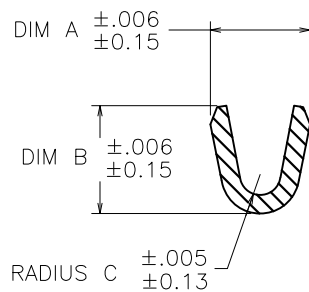
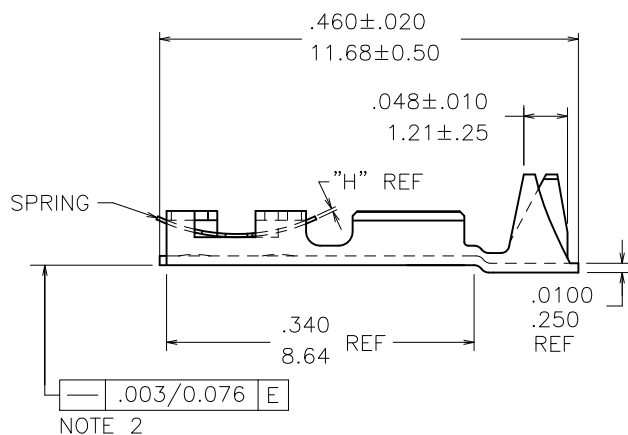
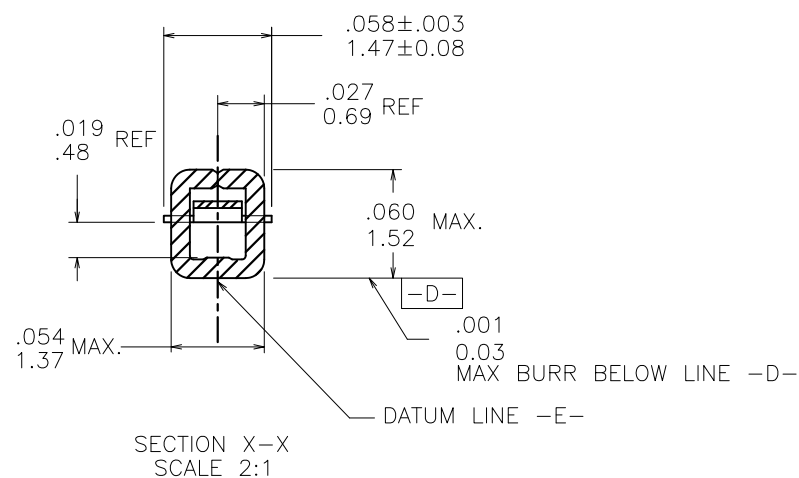
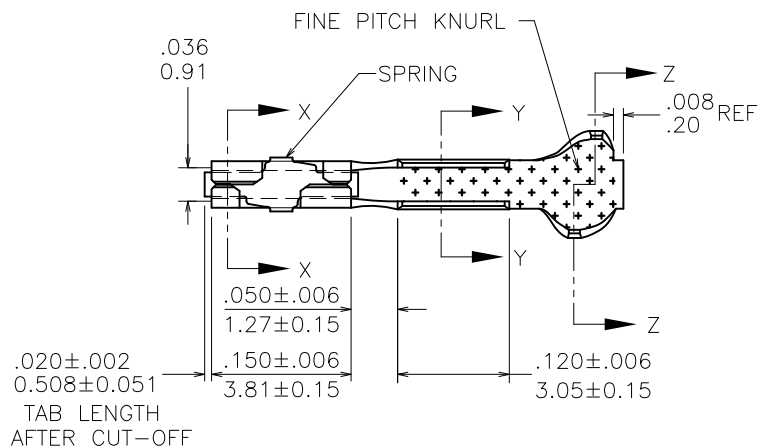
Material (Contact)	Copper Alloy
Plating (Contact area)	2.54 to 4.06 µm (100 to 160 µin.) Tin
Humidity Range	10% to 95%
Underplating	None
Material (Spring)	Copper Alloy
Temperature (Operating - range)	-65°C to +125°C

Approvals / Certifications

UL File Number	E66906
CSA File Number	LR46923
Approvals / Certifications	UL and CSA Approved

Other Features

Accessory	Ratcheting Hand Crimping Tool: Part Number HT-0095
Packaging (Type)	Box
Comments	PV™ Contact Removal Tool: Part Number HT-0080



mat'l. code SEE TABLE				surface ✓		tolerance		projection 		product family PV TERMINALS			
ltr	ecn	dr	date	tolerances unless otherwise specified						title			
AG	v07-0218	HTB	2007-03-16	angles	linear	.XX±.01/.X±.3		INCH/MM	MINI PV™ RECEPTACLE CRIMP TO WIRE				
AH	v08-0113	HTB	2008-03-28			.xxx±.005/.xx±.13							
AJ	F08-0159	HTB	2008-04-16			.xxxx±.0020/.xxx±.051							
AK	F08-0189	HTB	2008-06-25	dr	T. BREWBAKER	2006-04-18			dwg no		sheet 1 of 6	size	
AL	v08-0510	HTB	2008-12-02	engr	T. BREWBAKER	2006-04-18			47212		A3		
AM	v10-0359	HTB	2010-09-15	chr	T. BREWBAKER	2006-04-18							
AN	v12-0006	HTB	2012-01-05	appd	T. BREWBAKER	2006-04-18			type Product Customer Drawing				
sheet index	revision sheet	AN	AN	AN	AN	AN	AN						
		1	2	3	4	5	6						

PRODUCT NUMBER	AWG	WIRE BARREL			INSULATION BARREL				RECOMMENDED HANDTOOL FOR LOOSE PIECE APPLICATION
SEE SHEET 3	RANGE	DIM A	DIM B	RADIUS C	INSULATION DIAMETER RANGE	DIM D	DIM E	RADIUS F	
	18-20	.104/2.64	.104/2.64	.021/.53	.042/1.07-.103/2.62	.139/3.53	.120/3.05	.050/1.27	HT-0073
	22-26	.070/1.78	.070/1.78	.017/.43	.036/.91-.103/2.62	.139/3.53	.120/3.05	.050/1.27	HT-0095
	28-32	.054/1.37	.058/1.47	.011/.28	.028/.71-.054/1.37	.115/2.92	.105/2.67	.040/1.02	

NOTES:

1. TERMINAL MATES WITH .025±.002/0.64±0.05
SQUARE OR ROUND PIN.
- ② WHEN MEASURED ALONG DATUM -E- WITHIN .340/8.64 REF DIM.
3. PRODUCT SPECIFICATION: BUS-12-067.
APPLICATION SPECIFICATIONS:
TA-75: TERMINAL DATA FOR USE WITH MINI LATCH HOUSING.
TA-146: TERMINAL DATA FOR CONTACTS NOT USED IN HOUSINGS.
TA-210: TERMINAL DATA FOR CONTACTS USED WITH MINI
ROD HOUSINGS.
TA-228: APPLICATIONS USING 20 AWG WIRE.
TA-531: INSTALLING AND REMOVING TERMINALS.
- ④ PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
5. THIS PRODUCT IS NOT INTENDED TO BE EXPOSED
TO MANUFACTURING SOLDERING PROCESSES.
- ⑥ THIS PRODUCT HAS 100% TIN PLATING IN THE
INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER
GROWTH IN ALL INTERCONNECT ENVIRONMENTS.
- ⑦ CONTACT SIDE OF TERMINAL WILL HAVE 50μ"/1.27μm
NICKEL UNDERPLATE OVERALL WITH GOLD FLASH
REQUIRED INSIDE CONTACT BOX AND WIRE BARREL
ONLY. BACKSIDE OF TERMINALS TO BE PLATED WITH
30μ"/0.76μm NICKEL ONLY.

mat'l. code SEE TABLE				surface ☒		tolerance		projection		product family PV TERMINALS	
ltr	ecn no	dr	date	tolerances unless otherwise specified						title	
AN				angles	linear	.XX±.01/.X±.3 .XXX±.005/.XX±.13 XXXX±.0020/.XXX±.051		INCH/MM		MINI PV™ RECEPTACLE CRIMP TO WIRE	
								scale 1:1		dwg no	
				dr	T. BREWBAKER	2006-04-18				sheet 2 of 6	
				engr	T. BREWBAKER	2006-04-18				size	
				chr	T. BREWBAKER	2006-04-18				A3	
				appd	T. BREWBAKER	2006-04-18				type	
sheet	revision									Product Customer Drawing	
index	sheet										

1		2		3						4		5		6
MATERIAL & PLATING		SPRING THICKNESS DIM H±.0005/0.012	AWG RANGE	REELED NOTE 4	LOOSE NOTE 4	PLATING AVAILABILITY								
1/4 HARD BRASS BODY	Be/Cu SPRING					-000	-000LF	-001	-001LF	-002	-002LF			
CONTACT AREA UNDERPLATING: 50μ"/1.27μ Ni CONTACT AREA: 15μ"/0.38μ Au INSIDE BOX AREA: -000LF Au FLASH -001LF 15μ"/0.38μ Au -002LF 6μ"/0.15μ Au REMAINDER: -000LF SEE NOTE 7 -001LF 15μ"/0.38μ Au -002LF Au FLASH	Au FLASH	.0035/0.089	18-20	48241	48250	NO	YES	NO	NO	NO	NO			
			22-26	48242	48251	NO	YES	NO	NO	NO	NO			
			28-32	48243	48252	NO	YES	NO	NO	NO	NO			
		.0048/0.122	18-20	48244	48253	NO	YES	NO	NO	NO	NO			
			22-26	48245	48254	NO	YES	NO	NO	NO	NO			
			28-32	48246	48255	NO	YES	NO	NO	NO	NO			
		.0058/0.147	18-20	94011	94014	NO	NO	NO	NO	NO	NO	NO	OBS.	
			22-26	94012	94015	NO	NO	NO	NO	NO	NO	NO	OBS.	
			28-32	94013	94016	NO	NO	NO	NO	NO	NO	NO	OBS.	
		.0065/0.165	18-20	48247	48256	NO	YES	NO	NO	NO	NO	NO		
			22-26	48248	48257	NO	YES	NO	NO	NO	NO	NO		
			28-32	48249	48258	NO	YES	NO	NO	NO	NO	NO		
CONTACT AREA UNDERPLATING: 50μ"/1.27μ Ni CONTACT AREA: 30μ"/0.76μ Au INSIDE BOX AREA: -000LF Au FLASH -001LF 30μ"/0.76μ Au -002LF 8μ"/0.2μ Au REMAINDER: -000LF SEE NOTE 7 -001LF 30μ"/0.76μ Au -002LF Au FLASH	Au FLASH	.0035/0.089	18-20	48231	48266	NO	YES	NO	NO	NO	NO			
			22-26	48049	48235	NO	YES	NO	NO	NO	NO	YES		
			28-32	48048	48238	NO	YES	NO	NO	NO	NO	YES		
		.0048/0.122	18-20	48047	48232	NO	YES	NO	NO	NO	NO	YES		
			22-26	48046	48234	NO	YES	NO	NO	NO	NO	YES		
			28-32	48045	48237	NO	YES	NO	NO	NO	NO	YES		
		.0058/0.147	18-20	94017	94019	NO	NO	NO	NO	NO	NO	NO	OBS.	
			22-26	94018	94020	NO	NO	NO	NO	NO	NO	NO	OBS.	
			28-32	93259	94021	NO	NO	NO	NO	NO	NO	NO	OBS.	
		.0065/0.165	18-20	48052	48233	NO	YES	NO	NO	NO	NO	YES*		
			22-26	48051	48236	NO	YES	NO	NO	NO	NO	YES		
			28-32	48050	48239	NO	YES	NO	NO	NO	NO	YES		
* LOOSE PIECE NOT AVAILABLE														

mat'l. code SEE TABLE				surface ☒ tolerance		projection 		product family PV TERMINALS	
ltr	ecr no	dr	date	tolerances unless otherwise specified		 INCH/MM		title	
AN				angles				MINI PV™ RECEPTACLE CRIMP TO WIRE	
				linear		scale 1:1		dwg no	
				dr				sheet 3 of 6 size	
				engr				47212 A3	
				chr					
				appd					
sheet index	revision sheet							type Product Customer Drawing	

1		2		3		4		5		6	
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form A3

mat'l. code SEE TABLE				surface ✓		tolerance tolerances unless otherwise specified		projection INCH/MM		product family PV TERMINALS	
ltr	ecr no	dr	date	angles	linear	.XX±.01/.X±.3 .XXX±.005/.XX±.13 XXXX±.0020/.XXX±.051		scale 1:1		title MINI PV™ RECEPTACLE CRIMP TO WIRE	
AN										dwg no 47212	
						dr T. BREWBAKER 2006-04-18		FCJ		sheet 3 of 6	
						engr T. BREWBAKER 2006-04-18				size A3	
						chr T. BREWBAKER 2006-04-18					
						appd T. BREWBAKER 2006-04-18					
sheet index	revision sheet										



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form A3

1		2		3		4		5		6		
MATERIAL & PLATING		SPRING THICKNESS	AWG	REELED	LOOSE	PLATING AVAILABILITY						
1/4 HARD BRASS BODY	Be/Cu SPRING	DIM H±.0005/0.012	RANGE	NOTE 4	NOTE 4	−000	−000LF	−001	−001LF	−002	−002LF	
CONTACT AREA UNDERPLATING: 50μ"/1.27μ Ni CONTACT AREA: 40μ"/1.02μ Au INSIDE BOX AREA: −000LF Au FLASH −001LF 8μ"/0.2μ Au −002LF 8μ"/0.2μ Au REMAINDER: −000LF SEE NOTE 7 −001LF 8μ"/0.2μ Au −002LF Au FLASH	Au FLASH	.0035/0.089	18−20	48276	N/A	NO	NO	NO	NO	NO	YES	
			22−26	47457	47743	NO	YES	NO	YES	NO	YES	
			28−32	47456	47742	NO	YES	NO	YES	NO	YES	
		.0048/0.122	18−20	47441	47713	NO	YES	NO	YES	NO	YES	
			22−26	47439	47712	NO	YES	NO	YES	NO	YES	
			28−32	47437	47711	NO	YES	NO	YES	NO	YES	
		.0058/0.147	18−20	94022	94025	NO	NO	NO	NO	NO	NO	OBS.
			22−26	94023	94026	NO	NO	NO	NO	NO	NO	OBS.
			28−32	94024	94027	NO	NO	NO	NO	NO	NO	OBS.
		.0065/0.165	18−20	47566	47746	NO	YES	NO	YES	NO	YES	
			22−26	47565	47745	NO	YES	NO	YES	NO	YES	
			28−32	47564	47744	NO	YES	NO	YES	NO	YES	
DISCONTINUED				48191	48194							
DISCONTINUED				48192	48195							
DISCONTINUED				48193	48196							
CONTACT AREA UNDERPLATING: 50μ"/1.27μ Ni CONTACT AREA: 75μ"/1.91μ Au INSIDE BOX AREA: −000LF Au FLASH −001LF 75μ"/1.91μ Au −002LF 30μ"/0.76μ Au REMAINDER: −000LF SEE NOTE 7 −001LF 75μ"/1.91μ Au −002LF 15μ"/0.38μ Au	Au FLASH	.0035/0.089	18−20	47785	48014	NO	YES	NO	NO	NO	NO	
			22−26	47784	48015	NO	NO	NO	NO	NO	NO	OBS.
			28−32	47783	48013	NO	NO	NO	NO	NO	NO	OBS.
		.0048/0.122	18−20	47220	47707	NO	NO	NO	NO	NO	NO	OBS.
			22−26	47216	47706	NO	YES	NO	NO	NO	NO	
			28−32	47212	47705	NO	YES	NO	NO	NO	NO	
		.0058/0.147	18−20	94028	94031	NO	NO	NO	NO	NO	NO	OBS.
			22−26	94029	94032	NO	NO	NO	NO	NO	NO	OBS.
			28−32	94030	94033	NO	NO	NO	NO	NO	NO	OBS.

mat'l. code				surface		tolerance		projection		product family	
SEE TABLE				✓				⊕		PV TERMINALS	
ltr ecn no dr date				tolerances unless otherwise specified						title	
AN				angles		linear		INCH/MM		MINI PV™ RECEPTACLE	
						.XX±.01/.X±.3		scale 1:1		CRIMP TO WIRE	
						.XXX±.005/.XX±.13				dwg no	
						.XXXX±.0020/.XXX±.051				sheet 4 of 6	
				dr T. BREWBAKER		2006-04-18		FCI		size	
				engr T. BREWBAKER		2006-04-18				47212	
				chr T. BREWBAKER		2006-04-18				A3	
				appd T. BREWBAKER		2006-04-18				type	
sheet index		revision sheet								Product Customer Drawing	

1		2		3		4		5		6	
form A3											

mat'l. code SEE TABLE				surface ✓		tolerance tolerances unless otherwise specified		projection INCH/MM		product family PV TERMINALS	
ltr	ecr no	dr	date	angles	linear	.XX±.01/.X±.3 .XXX±.005/.XX±.13 XXXX±.0020/.XXX±.051		scale 1:1		title MINI PV™ RECEPTACLE CRIMP TO WIRE	
AN										dwg no 47212	
						dr T. BREWBAKER 2006-04-18		engr T. BREWBAKER 2006-04-18		sheet 4 of 6	
						chr T. BREWBAKER 2006-04-18		appd T. BREWBAKER 2006-04-18		size A3	
sheet index		revision sheet								type Product Customer Drawing	

1		2		3							4	5		6
MATERIAL & PLATING		SPRING THICKNESS	AWG	REELED	LOOSE	PLATING AVAILABILITY								
1/4 HARD BRASS BODY	Be/Cu SPRING	DIM H±.0005/0.012	RANGE	NOTE 4	NOTE 4	−000	−000LF	−001	−001LF	−002	−002LF			
PRE-PLATED: UNDERPLATING: 50μ"/1.27μ" Ni OVERPLATING: 100–200μ"/2.54–5.08μ" 60/40 TIN LEAD "LF NOT AVAILABLE" SEE LEAD-FREE EQUIVALENTS BELOW	Sn PLATED	.0035/0.089	22–26	47445	47747	NO	NO	NO	NO	NO	NO	OBS.		
			28–32	47446	47748	NO	NO	NO	NO	NO	NO	NO	OBS.	
		.0048/0.122	18–20	47221	47716	NO	NO	NO	NO	NO	NO	NO	OBS.	
			22–26	47217	47715	NO	NO	NO	NO	NO	NO	NO	OBS.	
			28–32	47213	47714	NO	NO	NO	NO	NO	NO	NO	OBS.	
			18–20	94034	94037	NO	NO	NO	NO	NO	NO	NO	OBS.	
		.0058/0.147	22–26	94035	94038	NO	NO	NO	NO	NO	NO	NO	OBS.	
			28–32	94036	94039	NO	NO	NO	NO	NO	NO	NO	OBS.	
			18–20	47648	47749	NO	NO	NO	NO	NO	NO	NO	OBS.	
			22–26	47649	47750	NO	NO	NO	NO	NO	NO	NO	OBS.	
		.0065/0.165	28–32	47650	47751	NO	NO	NO	NO	NO	NO	NO	OBS.	
PRE-PLATED: −000LF 100–160μ" 2.54–4.06μ" Sn (LEAD-FREE) NOTE 6	Sn PLATED	.0035/0.089	22–26	47445	47747	NO	YES	NO	NO	NO	NO			
			28–32	47446	47748	NO	YES	NO	NO	NO	NO	NO		
		.0048/0.122	18–20	47221	47716	NO	YES	NO	NO	NO	NO	NO		
			22–26	47217	47715	NO	YES	NO	NO	NO	NO	NO		
			28–32	47213	47714	NO	YES	NO	NO	NO	NO	NO		
			18–20	94034	94037	NO	NO	NO	NO	NO	NO	NO	OBS.	
		.0058/0.147	22–26	94035	94038	NO	NO	NO	NO	NO	NO	NO	OBS.	
			28–32	94036	94039	NO	NO	NO	NO	NO	NO	NO	OBS.	
			18–20	47648	47749	NO	YES	NO	NO	NO	NO	NO		
			22–26	47649	47750	NO	YES	NO	NO	NO	NO	NO		
		.0065/0.165	28–32	47650	47751	NO	YES	NO	NO	NO	NO	NO		

mat'l code SEE TABLE				surface ✓		tolerance		projection ⌀		product family PV TERMINALS	
ltr ecn no dr date				tolerances unless otherwise specified				INCH/MM		title	
AN				angles		linear .XX±.01/.X±.3 .XXX±.005/.XX±.13 XXXX+0.020/XXX+0.01		scale 1:1		MINI PV™ RECEPTACLE CRIMP TO WIRE	
				dr		T. BREWBAKER 2006-04-18		FCI		dwg no sheet 5 of 6 size	
				engr		T. BREWBAKER 2006-04-18				47212 A3	
				chr		T. BREWBAKER 2006-04-18				Type Product Customer Drawing	
				appd		T. BREWBAKER 2006-04-18					
sheet index		revision sheet									

form: A3

mat'l. code SEE TABLE				surface ✓		tolerance tolerances unless otherwise specified		projection INCH/MM		product family PV TERMINALS	
ltr	ecr no	dr	date	angles	linear	.XX±.01/.X±.3 .XXX±.005/.XX±.13 XXXX±.0020/.XXX±.051		scale 1:1		title MINI PV™ RECEPTACLE CRIMP TO WIRE	
AN										sheet 5 of 6	
				dr	T. BREWBAKER	2006-04-18		FCJ		size A3	
				engr	T. BREWBAKER	2006-04-18				dwg no 47212	
				chr	T. BREWBAKER	2006-04-18				type Product Customer Drawing	
				appd	T. BREWBAKER	2006-04-18					
sheet index	revision	sheet									

MATERIAL & PLATING		SPRING THICKNESS DIM H±.0005/0.012	AWG RANGE	REELED NOTE 4	LOOSE-PIECE NOTE 4	
1/4 HARD BRASS BODY	Be/Cu SPRING					
UNDERPLATING: 50u"X1.27u Ni CONTACT AREA: 30u"/0.76u GXT INSIDE BOX AREA: -600 Au FLASH REMAINDER: -600 Au FLASH	Au FLASH	.0035/0.089	18-20	48231-600	48266-600	OBS.
			22-26	48049-600	48235-600	OBS.
			28-32	48048-600	48238-600	OBS.
		.0048/0.122	18-20	48047-600	48232-600	OBS.
			22-26	48046-600	48234-600	OBS.
			28-32	48045-600	48237-600	OBS.
		.0058/0.147	18-20	94017-600	94019-600	OBS.
			22-26	94018-600	94020-600	OBS.
			28-32	93259-600	94021-600	OBS.
		.0065/0.165	18-20	48052-600	48233-600	OBS.
			22-26	48051-600	48236-600	OBS.
			28-32	48050-600	48239-600	OBS.

mat'l. code SEE TABLE				surface ✓	tolerance tolerances unless otherwise specified	projection INCH/MM	product family PV TERMINALS
ltr	ecn no	dr	date	angles	linear	scale 1:1	title MINI PV™ RECEPTACLE CRIMP TO WIRE
AN					.XX±.01/.X±.3 .XXX±.005/.XX±.13 XXXXX±.0020/.XXX±.051		
				dr	T. BREWBAKER 2006-04-18		sheet 6 of 6
				engr	T. BREWBAKER 2006-04-18		size A3
				chr	T. BREWBAKER 2006-04-18		
				appd	T. BREWBAKER 2006-04-18		
sheet index	revision sheet						type Product Customer Drawing