

Discrete Crimp-to-Wire Pins/Receptacles/Housings
2.54 mm (0.100 in.)

Ordering Data							
Option	Contact Area	Finishing Options					
		Remainder		Spring			
1	2.54 μm (100 $\mu\text{in.}$) min 60/40 tin-lead	2.54 μm (100 $\mu\text{in.}$) min 60/40 tin-lead		0.76 μm (30 $\mu\text{in.}$) 93/7 tin-lead			
2	0.38 μm (15 $\mu\text{in.}$) min gold over nickel	Gold flash		Gold flash over nickel			
3	0.76 μm (30 $\mu\text{in.}$) min gold over nickel	Gold flash		Gold flash over nickel			
4	1.02 μm (40 $\mu\text{in.}$) min gold over nickel	Gold flash		Gold flash over nickel			

Part Numbers							
Wire Size AWG	Insulation OD Size	Spring Force	Packaging	Finishing Option (see Finishing Options Table)			
				1	2	3	4
18, 20 or Two 22 or Two 24	1.07--1.52 mm (0.042--0.060 in.)	Standard	Reel	---	48241-000	48231-000	48276-000
		Standard	Loose piece	---	48250-000	48266-000	---
		High	Reel	47221-000	48244-000	48047-000	47441-000
		High	Loose piece	47716-000	48253-000	48232-000	47713-000
		Ultra-high	Reel	47648-000	48247-000	48052-000	47566-000
22, 24, 26 or Two 26 or Two 28	0.91--1.52 mm (0.036--0.060 in.)	Ultra-high	Loose piece	47749-000	48256-000	48233-000	47746-000
		Standard	Reel	47445-000	48242-000	48049-000	47457-000
		Standard	Loose piece	47747-000	48251-000	48235-000	47743-000
		High	Reel	47217-000	48245-000	48046-000	47439-000
		High	Loose piece	47715-000	48254-000	48234-000	47712-000
28, 30, 32 or Two 30 or Two 32	0.71--1.37 mm (0.028--0.054 in.)	Ultra-high	Reel	47649-000	48248-000	48051-000	47585-000
		Ultra-high	Loose piece	47750-000	48257-000	48236-000	47745-000
		Standard	Reel	47446-000*	48243-000*	48048-000*	47456-000*
		Standard	Loose piece	47748-000*	48252-000*	48238-000*	47742-000*
		High	Reel	47213-000*	48246-000*	48045-000*	47437-000*
32, 34, 36	0.51--1.02 mm (0.020--0.040 in.)	High	Loose piece	47714-000*	48255-000*	48237-000*	47711-000*
		Ultra-high	Reel	47650-000*	48249-000*	48050-000*	47564-000*
		Ultra-high	Loose piece	47751-000*	48258-000	48239-000*	47744-000*
		Standard	Reel	75543-009*	---	75543-015*	75543-003*
		Standard	Loose piece	75543-010*	---	75543-016*	75543-004*
		High	Reel	75543-007*	---	75543-013*	75543-001*
		High	Loose piece	75543-008*	---	75543-014*	75543-002*
		Ultra-high	Reel	75543-011*	---	75543-017*	75543-005*
		Ultra-high	Loose piece	75543-012*	---	75543-018*	75543-006*

Ordering data shown is for our standard product offering. For special sizes or high-volume orders, contact your authorized Berg Electronics representative.

*Indicates UL recognition only.

Customer Support Materials			
Description	Order No.	Description	Order No.
Customer Product Drawings.....	By Part No.	Application Drawings.....	TA-75, TA-146
Product Specifications.....	BUS-12-067	Product Samples.....	Upon Request

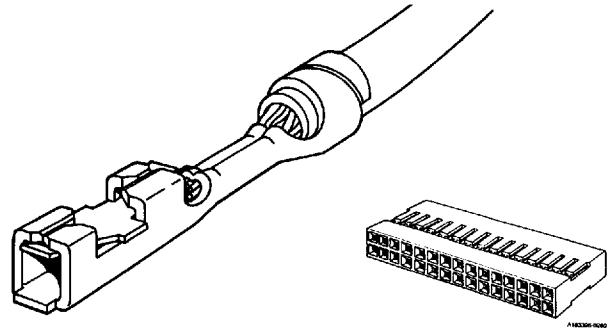


维库电子市场网 www.dzsc.com

Discrete Crimp-to-Wire Pins/Receptacles/Housings

2.54 mm (0.100 in.) Centerline

Crimp-to-Wire Mini-PV™ Receptacle



Features

- Dual-metal contact design provides constant retention force after repeated cycles.
- Choice of three spring thicknesses to meet specific insertion and withdrawal requirements.
- A wide range of application machines is offered to reduce application costs.
- Available in a variety of gold and tin-lead platings.

Mating Data

Mates with most 2.54 mm (0.100 in.) min centerline products with 0.64 mm (0.025 in.) square or round pins. See Table below for mating pin lengths.

Mating Pin Lengths

- Discrete applications
 - ▶ Minimum 4.32 mm (0.170 in.)
 - ▶ Nominal 5.08 mm (0.200 in.)
 - ▶ Maximum 5.59 mm (0.220 in.)

- Housing applications
 - ▶ Minimum 5.08 mm (0.200 in.)
 - ▶ Nominal 5.84 mm (0.230 in.)
 - ▶ Maximum 6.22 mm (0.245 in.)


Berg Electronics Products Page


- Crimp-to-Wire Pin in Mini-Latch Housing 13-10 and 13-16
- Friction Latch Passive Latching System II. 13-14
- BergStik® 13-50
- BergPin® 13-106 to 13-116
- Right-Angle 2-Row Header 13-61
- Shrouded Header 13-84 to 13-104

Specifications

- ASTM B-122
- MIL-M-20693
- MIL-P-46129
- QQ-C-533
- ASTM B-579
- MIL-G-45204
- QQ-N-290
- QQ-B-613

Approvals and Certifications

 File no. E66906

 File no. LR46923

Application Equipment

Berg Electronics Products Page

- PV-250A Semi-automatic application machine 13-34
- PV-272 Semi-automatic crimping machine 13-34
- OL-740 Semi-automatic two-ton bench press 13-35
- OL-700 Fully automatic application machine (14--26 AWG) 13-35
- Handtools 13-36

Technical Data

Materials

- Body Brass or cupro-nickel
- Spring Beryllium-copper

Plating

- Option 1
 - ▶ Contact area 2.54 μm (100 μin.) min 60/40 tin-lead
 - ▶ Remainder 2.54 μm (100 μin.) min 60/40 tin-lead
 - ▶ Spring 0.76 μm (30 μin.) 93/7 tin-lead
- Option 2
 - ▶ Contact area 0.38 μm (15 μin.) min gold over nickel
 - ▶ Remainder Gold flash
 - ▶ Spring Gold flash over nickel
- Option 3
 - ▶ Contact area 0.76 μm (30 μin.) min gold over nickel
 - ▶ Remainder Gold flash
 - ▶ Spring Gold flash over nickel
- Option 4
 - ▶ Contact area 1.02 μm (40 μin.) min gold over nickel
 - ▶ Remainder Gold flash
 - ▶ Spring Gold flash over nickel
- Option 5
 - ▶ Contact area 0.76 μm (30 μin.) min gold
 - ▶ Remainder Cupro-nickel base material
 - ▶ Spring Gold flash over nickel

- High (for use in Mini-Latch housings with 10--50 positions) 0.12 mm (0.0048 in.)
- Ultra-high (for use in Mini-Latch housings with 2--20 positions) 0.17 mm (0.0065 in.)

Electrical Performance

- Insulation resistance 5000 MΩ min
- Contact resistance 15 mΩ max after environmental tests
- Withstanding voltage 1000 V ac rms
- Current rating 3 amp continuous, depending on wire size

Mechanical Performance

- Insertion force (max), gold finish
 - ▶ Standard spring 2.35 N (240 gf)
 - ▶ High spring 4.41 N (450 gf)
 - ▶ Ultra high spring 10.79 N (1100 gf)
- Withdrawal force (min), gold finish
 - ▶ Standard spring 0.45 N (45 gf)
 - ▶ High spring 0.75 N (75 gf)
 - ▶ Ultra high spring 1.75 N (175 gf)
- Durability (mating cycles, gold finish) 1000

Operating Environment

- Temperature range -65°C to +125°C
- Relative humidity range 10% to 95%

Packaging

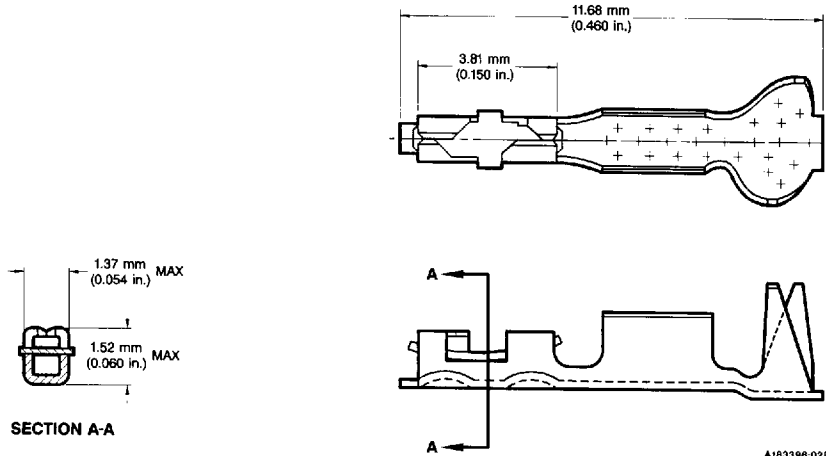
- Reels
- Boxes (loose piece)

Spring Thickness

- Standard (for use in Mini-Latch housings with 40--72 positions) 0.09 mm (0.0035 in.)

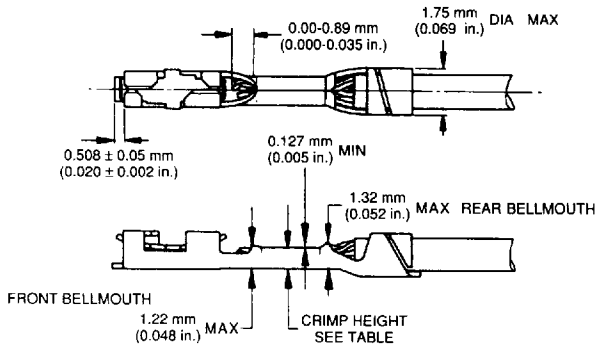
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Description



Crimping Specifications

MINI-PV™ TERMINAL



MINI-PV™ LATCH HOUSING



Wire Size (AWG)	Crimp Height	Insulation Diameter	
		Loose Wire Application	Housing Application
18--20	1.07--1.12 mm (0.042--0.044 in.)	1.07--2.62 mm (0.042--0.103 in.)	1.07--1.52 mm (0.042--0.060 in.)
22--26	0.81--0.86 mm (0.032--0.034 in.)	0.91--2.62 mm (0.036--0.103 in.)	0.91--1.52 mm (0.036--0.060 in.)
28--32	0.66--0.71 mm (0.026--0.028 in.)	0.71--1.37 mm (0.028--0.054 in.)	0.71--1.37 mm (0.028--0.054 in.)
32--36	0.56--0.61 mm (0.022--0.024 in.)	0.51--1.02 mm (0.020--0.040 in.)	0.51--1.02 mm (0.020--0.040 in.)