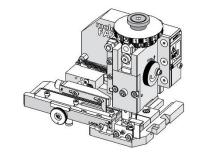
Order Number 213069-6200





Application Tooling Specification

FEATURES

- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- Quick setup time; plus, the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of 0.015mm (.0006") for conductor crimp height and 0.025mm (.001") for insulation height
- Fine adjustment of the bend is achieved using the bend adjust dial
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other
- Directly adapts to most automatic wire processing machines

SCOPE

Products: PicoBlade 1.25 Crimp Terminals, 26-28 AWG

Terminal Series	Terminal Order	Wire Size		Insulation Diameter		Strip Length (Ref)	
No.	No.	AWG	mm²	mm	In.	mm	In.
50079	50079-8020 50079-8001	26-28	0.136-0.079	0.50-1.00	.020039	1.40-1.90	.055075

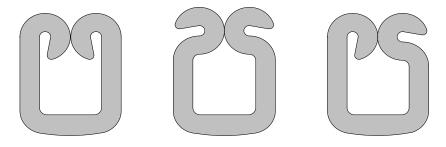
CAUTION: Lubrication must be used to prevent terminals from sticking in the conductor punch. Use 63801-7240 oiler or equivalent.

INSULATION CRIMP FORM

This crimp terminal is designed for miniaturization; therefore, each dimension of insulation crimp portion appears small as compared to the terminal material thickness. To avoid insulation piercing the crimp forms by the insulation barrel, coining is provided inside of the insulation barrel. For this reason, various crimp forms will occur at the tip of the insulation crimp barrel shown in the figure below.

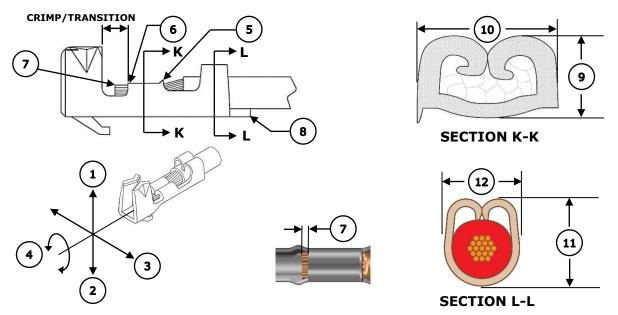
These crimp forms maybe changed completely by a small change in the wire, insulation punch or terminal.

These crimp forms are satisfactory for original function of the insulation crimp portion, and it is confirmed that all of these forms below are acceptable insulation crimps.



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DEFINITION OF TERMS



CRIMP SPECIFICATIONS

Feature	Requirem	ent					
1. Bend Up	5° Max	5° Max					
2. Bend Down	4° Max	4° Max					
3. Twist	6° Max	6° Max					
4. Roll	8° Max	8° Max					
5. Bell Mouth Rear	0.05-0.30r	0.05-0.30mm (.002012")					
6. Bell Mouth Front	Not Applica	Not Applicable					
7. Conductor Brush	0.00-0.70n	0.00-0.70mm (.000028")					
8. Cut-Off Tab	0.15mm (.006") Max						
Conductor Crimp	Wi	Wire Size		9. Crimp Height		10. Crimp Width (Ref)	
50079	26 AWG	0.136mm ²	0.60-0.65mm	.023026 in.	0.83mm	.033 in.	
50079	28 AWG	0.079mm ²	0.56-0.61mm	.022024 in.	0.83mm	.033 in.	
Insulation Crimp	Wi	Wire Size		11. Crimp Height (Ref)		12. Crimp Width (Ref)	
50079	26 AWG	0.136mm ²	1.30mm	.051 in.	0.91mm	.033 in.	
50079	28 AWG	0.079mm ²	1.25mm	.049 in.	0.91mm	.033 in.	
Pull Force	Wi	Wire Size		Minimum Force			
	26 AWG	0.136mm ²	9.8 N	2.2 lb.	Pull Force to be		
50079	28 AWG	0.079mm²	9.8 N	2.2 lb.	measured with no influence from the insulation crimp.		

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NOTES

General Notes

- 1. Molex recommends that an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by hand cycling the press and applicator before crimping under power. Check that all screws are tight.
- 3. Slugs, terminals, dirt and oil should be kept clear of the work area.
- 4. Wear safety glasses when operating or maintaining the applicator.
- 5. For recommended maintenance, refer to the FA2 manual (TM-638080200).
- 6. Molex recommends crimping standard copper wire only.
- 7. Lubrication must be used when crimping this terminal to prevent terminal from sticking in the conductor punch. Use 63801-7240 oiler or equivalent.

WARNINGS

CAUTION: This applicator must be installed in a press with a standard shut height of 135.80mm (5.346"). Tooling damage could result at a lower setting.

CAUTION: To prevent injury, never operate this applicator without the guards supplied with the press or wire-processing machine in place. Reference the press or wire processing manufacturer's instruction manual.

CAUTION: Molex tooling crimp specifications are valid only when used with Molex terminals and tooling manufactured by Molex and sold by Molex or authorized distributors ("Molex Tooling"). When using tooling other than Molex Tooling with Molex-specific connector systems listed in our ATS documents, the Molex Tooling qualification does not apply, and the responsibility for full qualification of the connector system is that of the customer. Molex accepts no liability for connector performance or tooling support where tooling other than Molex Tooling is used or where Molex Tooling is modified.

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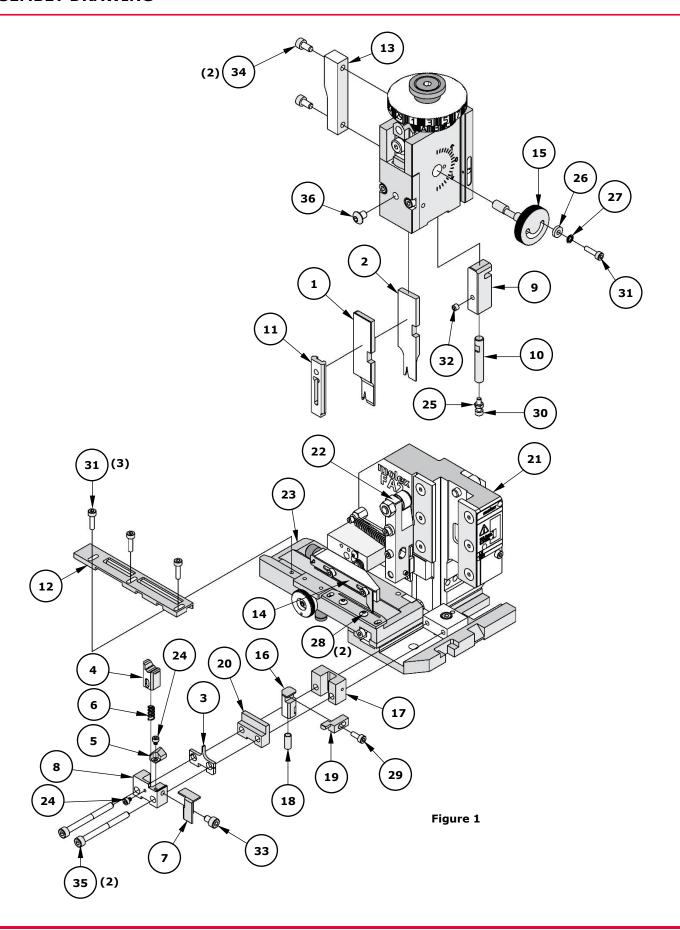
PARTS LIST

Perishable Toolling	FA2 Applicator 213069-6200						
1 213069-6270 213069-6270 Tool Kit (All "Y" Items) Re	Item	Order No.			Quantity		
1 200220-0853 200220-0853 Insulation Punch 1 2 63457-0809 63457-0809 Conductor Punch 1 1 3 3 200217-0805 200217-0805 Combination Anvil 1 1 4 63443-0136 63443-0136 Cut-Off Plunger 1 1 5 63443-0119 Cutting Insert 1 1 1 1 1 1 1 1 1							
2 63457-0809 63457-0809 Conductor Punch 1 Y		213069-6270	213069-6270	Tool Kit (All "Y" Items)	Ref		
3 200217-0805 200217-0805 Combination Anvil 1 Y 4 63443-0136 63443-0136 Cut-Off Plunger 1 Y S 63443-0119 Cutting Insert 1 Y Won-Perishable Components	1	200220-0853	200220-0853	Insulation Punch	1 Y		
4 63443-0136 63443-0119 Cutting Insert 1 Y 5 63443-0119 Cutting Insert 1 Y Non-Perishable Components 6 11-24-1067 4996-4 Cut-Off Plunger Spring 1 7 63443-0117 63443-0118 Front Scrap Chute 1 8 63443-0118 63443-0118 Front Plunger Retainer 1 9 63443-7403 63443-7403 Hold Down Block 1 10 63600-5775 63600-5775 Nose Hold Down Shank 1 11 63443-2807 63443-701 Terminal Guide 1 12 63443-4701 63443-4402 Feed Cam 1 13 63443-4402 63443-4402 Feed Pawl 1 15 63808-0229 63808-0229 Bend Adjust Dial 1 16 63443-7315 63443-7316 Terminal Hold Down Plunger 1 17 63443-7316 Terminal Hold Down Retainer 1 18 63700-0992 Terminal Hold Down Retai	2	63457-0809	63457-0809	Conductor Punch	1 Y		
Second	3	200217-0805	200217-0805	Combination Anvil	1 Y		
Non-Perishable Components	4	63443-0136	63443-0136	Cut-Off Plunger	1 Y		
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7 63443-0117 63443-0118 Front Plunger Retainer 1 8 63443-7403 63443-7403 Hold Down Block 1 10 63600-5775 63600-5775 Nose Hold Down Shank 1 11 63443-2807 63443-2807 Front Plunger Striker 1 12 63443-4701 63443-4701 Terminal Guide 1 13 63443-4402 63443-4402 Feed Cam 1 14 63808-0249 63808-0249 Feed Pawl 1 15 63808-0229 63808-0229 Bend Adjust Dial 1 16 63443-7315 63443-7315 Combination Wire Stop / Hold Down Plunger 1 17 63443-7315 63443-7316 Terminal Hold Down Retainer 1 18 63700-0992 Terminal Hold Down Plunger Spring 1 19 63443-7318 63443-7318 Terminal Hold Down Retainer Plate 1 20 2020213-7204 200213-7204 Terminal Hold Down Retainer Plate 1 21 63808-0197			Non-Pe				
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10	8	63443-0118	63443-0118	Front Plunger Retainer	1		
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17 63443-7316 63443-7316 Terminal Hold Down Retainer 1 18 63700-0992 63700-0992 Terminal Hold Down Plunger Spring 1 19 63443-7318 63443-7318 Terminal Hold Down Retainer Plate 1 20 200213-7204 200213-7204 Terminal Hold Down Retainer Plate 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M4 x 4 SSS 1* 32 — —	15	63808-0229	63808-0229	Bend Adjust Dial	1		
17 63443-7316 63443-7316 Terminal Hold Down Retainer 1 18 63700-0992 63700-0992 Terminal Hold Down Plunger Spring 1 19 63443-7318 63443-7318 Terminal Hold Down Retainer Plate 1 20 200213-7204 200213-7204 Terminal Hold Down Retainer Plate 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M4 x 4 SSS 1* 32 — —	16	63443-7315	63443-7315	Combination Wire Stop / Hold Down Plunger	1		
19 63443-7318 63443-7318 Terminal Hold Down 1 20 200213-7204 200213-7204 Terminal Hold Down Retainer Plate 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0197 63808-0197 Mechanical Feed Assembly 1 23 63808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 4* 31 — — M4 x 4 SSS 1* 32 — — M4 x 6 SHCS 1*	17	63443-7316	63443-7316	Terminal Hold Down Retainer	1		
20 200213-7204 Terminal Hold Down Retainer Plate 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0197 63808-0197 Mechanical Feed Assembly 1 23 63808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M4 x 4 SSS 1* 32 — — M4 x 6 SHCS 1*	18	63700-0992	63700-0992	Terminal Hold Down Plunger Spring	1		
Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M4 x 4 SSS 1* 32 — — M4 x 6 SHCS 1*	19	63443-7318	63443-7318	Terminal Hold Down	1		
21 63808-0200 63808-0200 Applicator Core 1 22 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M4 x 4 SSS 1* 32 — — M4 x 6 SHCS 1*	20	200213-7204	200213-7204	Terminal Hold Down Retainer Plate	1		
22 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*				Frame			
23 63808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	21	63808-0200	63808-0200	Applicator Core	1		
Hardware 24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	22	63808-0197	63808-0197	Mechanical Feed Assembly	1		
24 — — M2.5 x 3 SHCS 2* 25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	23	63808-0191	63808-0191	Track Assembly	1		
25 — — M3 Hex Nut 1* 26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*				Hardware			
26 — — M3 Flat Washer Hard 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	24	_	_	M2.5 x 3 SHCS	2*		
27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	25		_	M3 Hex Nut	1*		
28 — — M3 x 6 BHCS 2* 29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	26	1	_	M3 Flat Washer Hard	1*		
29 — — M3 x 8 SHCS 1* 30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	27	l	_	M3 Inner Tooth Lock Washer	1*		
30 — — M3 x 10 SHCS 1* 31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	28	_	_	M3 x 6 BHCS	2*		
31 — — M3 x 12 SHCS 4* 32 — — M4 x 4 SSS 1* 33 — — M4 x 6 SHCS 1*	29	_	_	M3 x 8 SHCS	1*		
32 - - M4 x 4 SSS 1* 33 - - M4 x 6 SHCS 1*	30		_	M3 x 10 SHCS	1*		
33 — — M4 x 6 SHCS 1*	31			M3 x 12 SHCS	4*		
33 — — M4 x 6 SHCS 1*	32	_	_	M4 x 4 SSS	1*		
		_	_	M4 x 6 SHCS	1*		
34	34	_	_	M4 x 8 SHCS	2*		
		_	_		2*		
36 — #10-32UNF x .25" BHCS 1*	36	_	_	#10-32UNF x .25" BHCS	1*		

^{*}Fastener parts can be purchased through most industrial suppliers by using the description in the table above.

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ASSEMBLY DRAWING



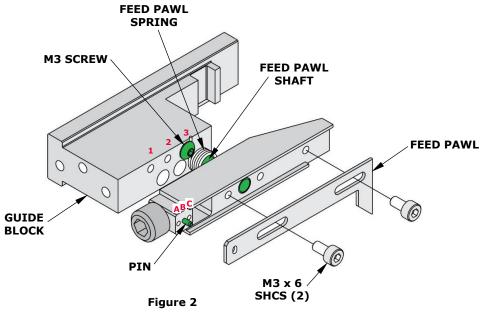
Doc. No: 2130696200 Release Date: 12-12-22 **UNCONTROLLED COPY** Page 5 of 8 Revision: B Revision Date: 02-14-23

FACTORY SETTINGS

Feed Pawl Assembly

The FA2 applicator number 213069-6200 ships with the following factory settings. See Figure 2:

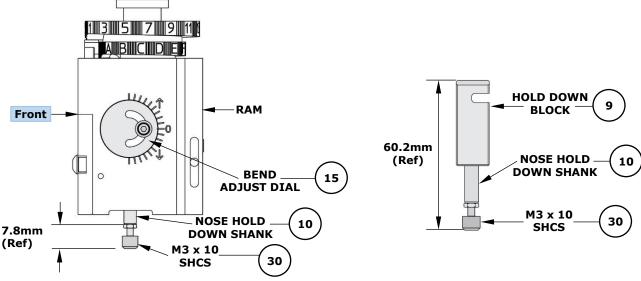
- The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 3.
- The pin is in position B.



Note: Each applicator is configured and tested by Molex prior to shipping, and the above settings were used to produce the included sample crimps.

Third Dial/Ram Assembly

Indicates item number on the Parts List and Assembly Drawing



Note: The above dimensions were measured during setup and are included as a reference only. Additional adjustments may be required before crimping for production.

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CAUTION: A tooling crash may occur if any of the following conditions exist:

- The M3 x 10 SHCS extends more than 6.7mm from the nose hold down shank
- The overall length of the hold down block, shank, and M3 SHCS exceeds 59.2mm
- The bend adjust dial is adjusted too far down
- The press shut height is less than 135.80mm (5.346")

Combination Wire Stop / Hold Down Plunger

- This Applicator contains a combination wire stop / hold down plunger. It can be adjusted in the direction shown to be used as a wire stop to control brush specification.
- See the factory settings section for adjustments of the third dial bend adjustment settings.

	J
e: Each applicator is configured and tested by Molex p	rior to chinning and the Com

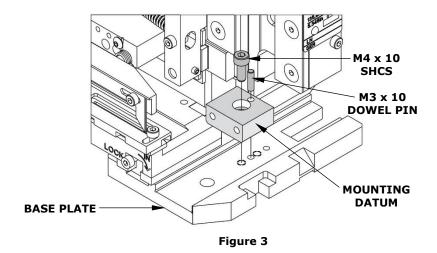
nation Wire Stop / Hold Down Plunger was used to produce the included sample crimps.

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Revision: B

Mounting Datum Location

This applicator was assembled and tested by Molex with the mounting datum in the location shown in Figure 3. Do not remove the mounting datum.



Application Tooling Support

Phone: (402) 458-TOOL (8665) **E-Mail:** toolingsupport@molex.com **Website:** www.molex.com/applicationtooling

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