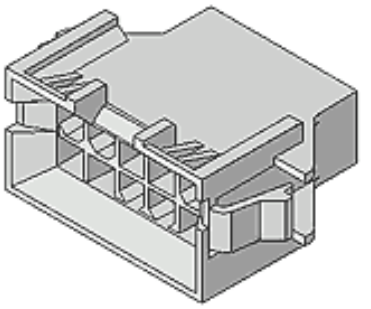
This document was generated on 05/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0050362323
Status: Active
Overview: minifit_bmi
Description: 4.20mm (.165") Pitch Mini-Fit BMI™ Plug Housing, Dual Row, White, UL 94V-2, 8 Circuits

Documents:
3D Model
Drawing (PDF)
Product Specification PS-5556-002 (PDF)
RoHS Certificate of Compliance (PDF)



Series image - Reference only

General

Product Family	Crimp Housings
Series	42475
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 series terminals crimped to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.
Overview	minifit_bmi
Product Name	Mini-Fit BMI™

Physical

Circuits (maximum)	8
Color - Resin	Natural
Gender	Male
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Resin	Nylon
Number of Rows	2
Packaging Type	Bag
Panel Mount	Yes
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm
Polarized to Mating Part	Yes
Stackable	No
Temperature Range - Operating	-40°C to +105°C

Electrical

Current - Maximum per Contact	13A

Material Info

Old Part Number	42475-0821

Reference - Drawing Numbers

Packaging Specification	PK-42474-001
Product Specification	PS-5556-002
Sales Drawing	SD-42475-***1
Test Summary	TS-5556-002

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status
Halogen-Free

China RoHS

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

Please visit the Contact Us section for any non-product compliance questions.

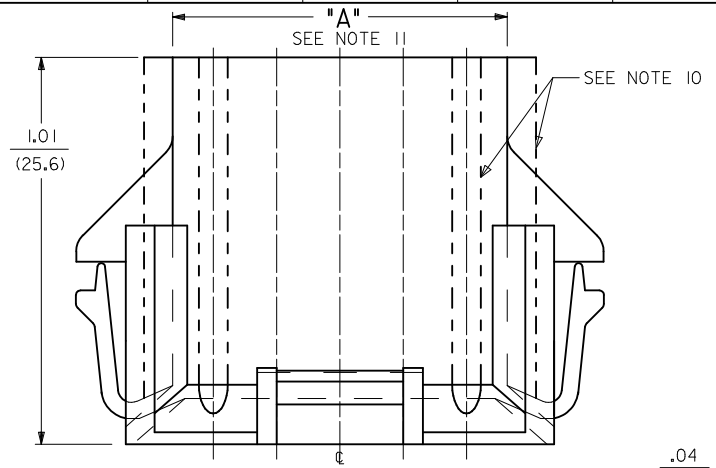
Search Parts in this Series
42475Series

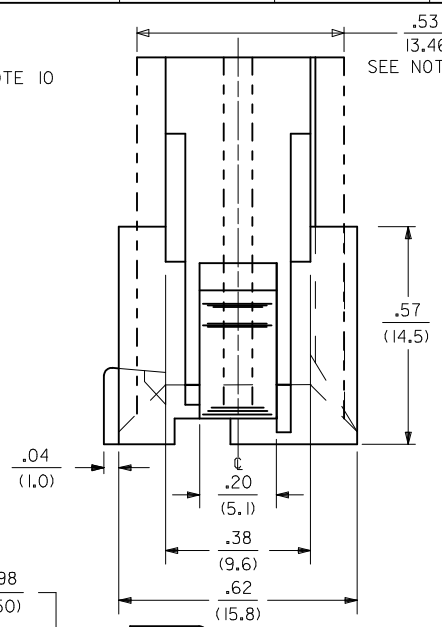
Mates With
Mini-Fit Jr.™ Receptacle Housing 5557 ,
Mini-Fit BMI™ Receptacle Header 42385 ,
Mini-Fit BMI™ Receptacle Housing 42474

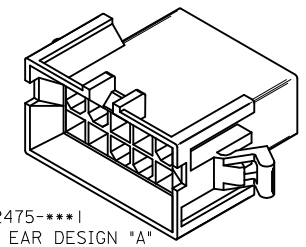
Use With
46012 Mini-Fit Plus HCS™ Crimp Terminal,
5558 Mini-Fit™ Crimp Terminal

This document was generated on 05/19/2010

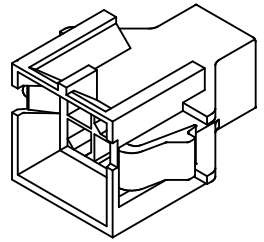
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION





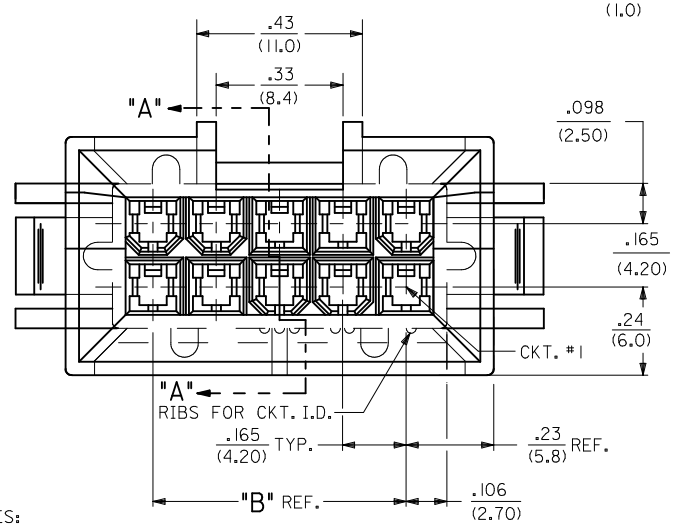


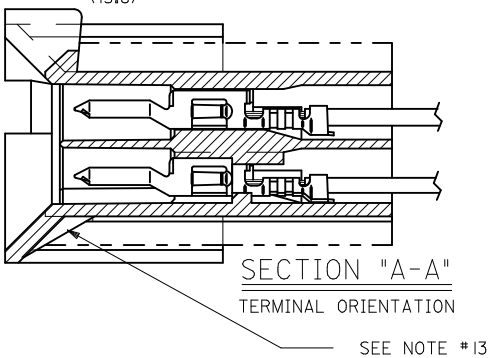
42475-***1
MOUNTING EAR DESIGN "A"
(SEE NOTE 9)

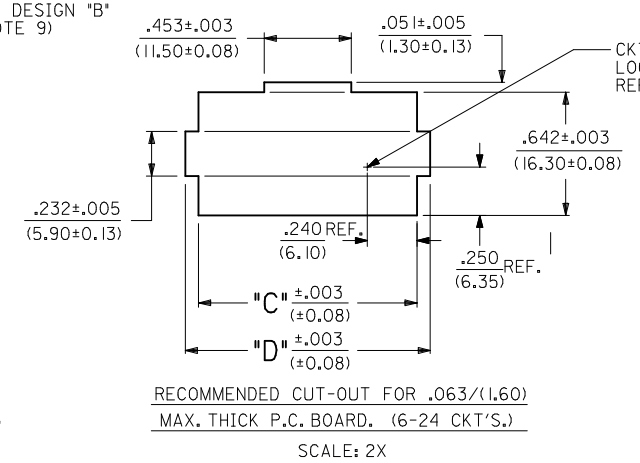


42475-***1
MOUNTING EAR DESIGN "B"
(SEE NOTE 9)

CIRCUIT SIZE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
6	.54 (13.8)	.33 (8.4)	.807 (20.50)	.945 (24.00)
8	.71 (18.0)	.50 (12.6)	.972 (24.70)	1.110 (28.20)
10	.87 (22.2)	.66 (16.8)	1.138 (28.90)	1.276 (32.40)
12	1.04 (26.4)	.83 (21.0)	1.303 (33.10)	1.441 (36.60)
14	1.20 (30.6)	.99 (25.2)	1.469 (37.30)	1.606 (40.80)
16	1.37 (34.8)	1.16 (29.4)	1.643 (41.50)	1.772 (45.00)
18	1.54 (39.0)	1.32 (33.6)	1.799 (45.70)	1.937 (49.20)
20	1.70 (43.2)	1.49 (37.8)	1.965 (49.90)	2.102 (53.40)
22	1.87 (47.4)	1.65 (42.0)	2.130 (54.10)	2.268 (57.60)
24	2.03 (51.6)	1.82 (46.2)	2.295 (58.30)	2.433 (61.80)







RECOMMENDED CUT-OUT FOR .063/(1.60)
MAX. THICK P.C. BOARD. (6-24 CKT'S.)

SCALE: 2X

NOTES:

1) MATERIAL:
   1 = NYLON (PA6/6), UNFILLED, UL94 V-2, COLOR: NATURAL
   2 = NYLON (PA6/6), UNFILLED, UL94 V-0, COLOR: NATURAL
   3 = NYLON (PA6/6), UNFILLED, UL94 V-2, COLOR: BLACK
   4 = NYLON (PA6/6), UNFILLED, UL94 V-0, COLOR: BLACK
2) FINISH NOT APPLICABLE.
3) THIS PART CONFORMS TO MOLEX PRODUCT SPEC. NO. PS-5556-002.
4) PACKAGING: PK-42474-001
5) 6-24 CKT. PARTS MATE WITH MOLEX RECEPTACLES 5557, 42385 AND 42474. 2 AND 4 CKT. PARTS MATE WITH 42385 AND 42474 ONLY.
6) PART IS FOR USE WITH MALE TERMINAL #5558.
7) PART ALLOWS FOR UP TO .100/(2.54) MISALIGNMENT WITH MATING RECEPTACLE IN ANY DIRECTION. SEE MATING CONNECTOR DRAWINGS FOR SPECIFIC ALLOWANCES.
8) PANEL CUT-OUT TO BE PUNCHED IN THE SAME DIRECTION AS CONNECTOR INSERTION.
9) PARTS MANUFACTURED AFTER 95/12/31 MAY HAVE MOUNTING EAR DESIGN "B" PARTS WITH MOUNTING EAR DESIGN "A" WILL BE OBSOLETED AS TOOL LIFE DICTATES. IN SOME CASES, PARTS MAY BE AVAILABLE WITH BOTH MOUNTING EAR DESIGNS. SEE CHART ON SHEET 4 FOR SPECIFIC EAR DESIGN AVAILABILITY.
10) FOR MANUFACTURING EASE PARTS MAY HAVE OPTIONAL EJECTOR RIBS. SEE SHT. 3 FOR LOCATION.
11) DIMENSION DOES NOT INCLUDE EJECTOR RIBS (SEE PAGE #3 FOR PARTS WITH RIBS, RIB DIMENSIONS AND LOCATION).
12) IF THIS PRODUCT IS STORED IN AN ENVIRONMENT WITH A RELATIVE HUMIDITY OF LESS THAN 50%, MOISTURE MUST BE ADDED. REFER TO TECHNICAL ADVISORY AS-45499-001 FOR INSTRUCTIONS.
13) INTERIOR RIB LOCATION MAY VARY.
14) CONNECTOR ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
15) WIRES ARE TO BE DRESSED IN SUCH A MANNER TO ALLOW THE TERMINALS TO FLOAT FREELY IN THE POCKET.
16) PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-022.

SEE SHEET 2 FOR 2 & 4 CKT. PARTS

SHEET	REV
4	S7
3	S7
2	S6
1	S7

ADD -0641 2010/05/28
EC NO: UCP2010-3048 2010/05/28
DRWN: JJAGUILAR 2010/06/11
CHKD: JBELL
APPR: FSMITH
DESCRIPTION
S7
REV

QUALITY SYMBOLS
F1 =0
F2 =0
F3 =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: GEP DATE: 1989/07/18
CHECKED BY: RJF DATE: 1989/07/18
APPROVED BY: FSMITH DATE: 2010/03/17
MATERIAL NO.: SEE SHEET 4

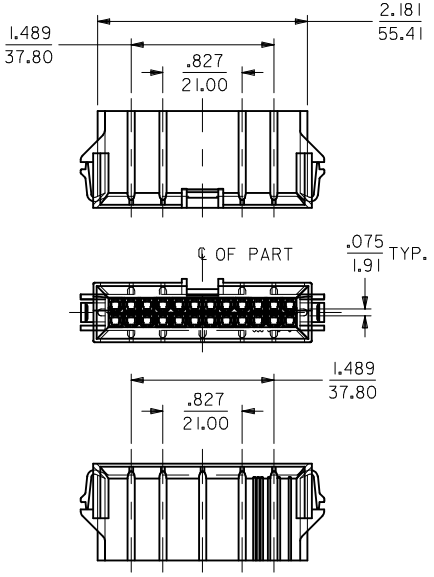
TITLE: PLUG HOUSING B.M.I.
2-24 CIRCUITS
MINI-FIT SERIES

MOLEX INCORPORATED

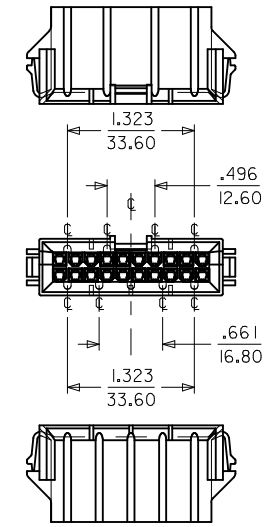
DOCUMENT NO.: SD-42475-***1
SHEET NO.: 1 OF 4

SIZE C

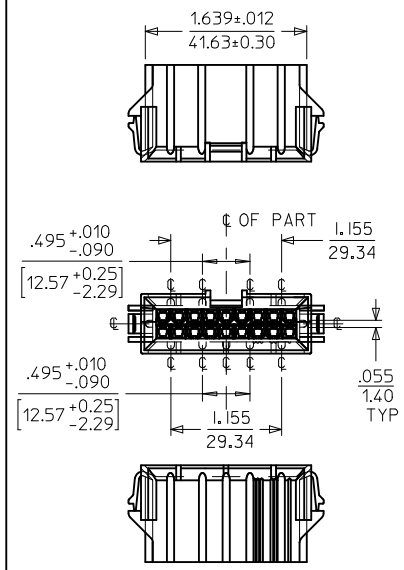
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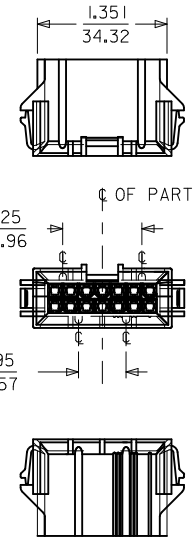
24 CIRCUIT



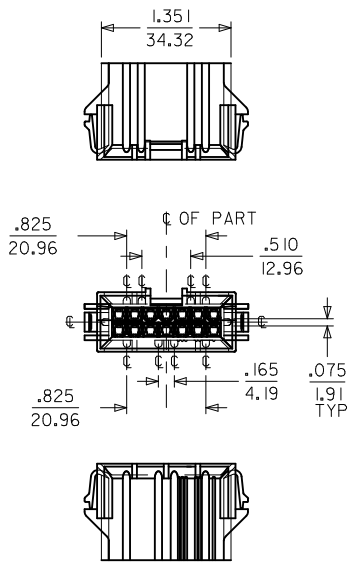
20 CIRCUIT



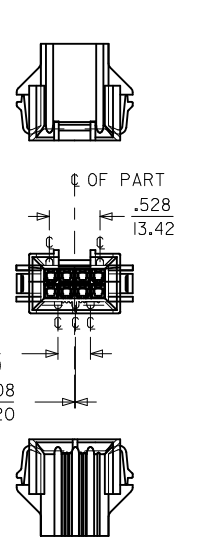
18 CIRCUIT



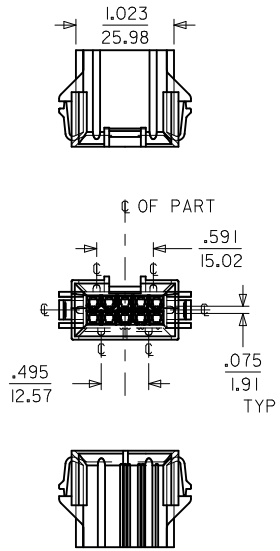
OR



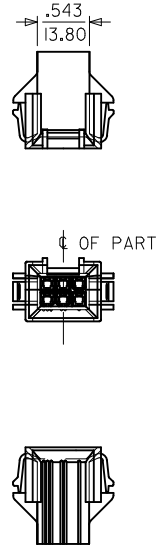
14 CIRCUIT



8 CIRCUIT



10 CIRCUIT



6 CIRCUIT

NOTES:

1) DIMENSIONS GIVEN ACROSS CENTERLINES ARE SYMMETRICAL ABOUT THOSE CENTERLINES WITHIN HALF THE TOTAL TOLERANCE.

SEE SHEET 1
EC NO: UCP2010-3048 2010/05/28
DRWN: JJAGUILAR 2010/05/28
CH'KD: JBELL 2010/06/11
APPR: FSMITH
DESCRIPTION
S5
REV

QUALITY SYMBOLS
F1 =0
F2 =0
F3 =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	CM	1998/04/16
CHECKED BY	MAB	1998/04/16
APPROVED BY	RE	1998/04/16

MATERIAL NO.: SEE SHEET 4

TITLE: PLUG HOUSING B.M.I 2-24 CIRCUITS MINI-FIT SERIES

MOLEX INCORPORATED

DOCUMENT NO.: SD-42475-***1

SHEET NO.: 3 OF 4

SIZE: C

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PART NUMBER	ENG. NUMBER	CKT. SIZE	MATERIAL (SEE NOTE 1.)
NOT TOOLED	42475-0211	2	1
15-06-0045	42475-0411	4	
15-06-0065	42475-0611	6	
15-06-0085	42475-0811	8	
15-06-0105	42475-1011	10	
NOT TOOLED	42475-1211	12	
15-06-0145	42475-1411	14	
NOT TOOLED	42475-1611	16	
15-06-0185	42475-1811	18	
15-06-0205	42475-2011	20	
NOT TOOLED	42475-2211	22	
15-06-0245	42475-2411	24	1
NOT TOOLED	42475-0221	2	2
15-06-0046	42475-0421	4	
15-06-0066	42475-0621	6	
50-36-2323	42475-0821	8	
15-06-0106	42475-1021	10	
NOT TOOLED	42475-1221	12	
15-06-0146	42475-1421	14	
NOT TOOLED	42475-1621	16	
15-06-0186	42475-1821	18	
15-06-0206	42475-2021	20	
NOT TOOLED	42475-2221	22	
15-06-0246	42475-2421	24	2

PART NUMBER	CKT. SIZE	MATERIAL (SEE NOTE 1.)
NOT TOOLED	2	3
42475-0431	4	
42475-0631	6	
42475-0831	8	
42475-1031	10	
NOT TOOLED	12	
42475-1431	14	
NOT TOOLED	16	
42475-1831	18	
42475-2031	20	
NOT TOOLED	22	
42475-2431	24	3
NOT TOOLED	2	4
42475-0441	4	
42475-0641	6	
42475-0841	8	
42475-1041	10	
NOT TOOLED	12	
42475-1441	14	
NOT TOOLED	16	
42475-1841	18	
42475-2041	20	
NOT TOOLED	22	
42475-2441	24	4

MOUNTING EAR TYPE	
CKT. SIZE	DESIGN A, DESIGN B (SEE SHEET 1)
2	N/A
4	B
6	B
8	A
10	B
12	N/A
14	B
16	N/A
18	A & B
20	A
22	N/A
24	B

PLUG HOUSING/ MALE TERMINAL	MATING CONNECTOR	HSG. MAT'L.	TERM. MAT'L.	PLATING
		MATING CONNECTOR FEATURES		
42475-**21, 5558-GS*	42474-**21, 5556-PBGS*P	94V-0	PHOS. BRZ.	GOLD
42475-**11, 5558-GS*	42474-**11, 5556-PBGS*P	94V-2		
42475-**21, 5558-GS*	42474-**21, 5556-GS*P	94V-0	BRASS	GOLD
42475-**11, 5558-GS*	42474-**11, 5556-GS*P	94V-2		
42475-**21, 5558-PBS*	42474-**21, 5556-PBS*P	94V-0	PHOS. BRZ.	TIN
42475-**11, 5558-PBS*	42474-**11, 5556-PBS*P	94V-2		
42475-**21, 5558-S*	42474-**21, 5556-S*P	94V-0	BRASS	TIN
42475-**11, 5558-S*	42474-**11, 5556-S*P	94V-2		
42475-**21, 5558-GS*	A-42385-**D2	94V-0	PHOS. BRZ.	GOLD
42475-**11, 5558-GS*	A-42385-**C2	94V-2		
42475-**21, 5558-GS*	A-42385-**B2	94V-0	BRASS	GOLD
42475-**11, 5558-GS*	A-42385-**A2	94V-2		
42475-**21, 5558-PBS*	A-42385-**D1	94V-0	PHOS. BRZ.	TIN
42475-**11, 5558-PBS*	A-42385-**C1	94V-2		
42475-**21, 5558-S*	A-42385-**B1	94V-0	BRASS	TIN
42475-**11, 5558-S*	A-42385-**A1	94V-2		

LEGEND:

42475 - ** * 1

- BASE NUMBER
- CIRCUIT SIZE
- MATERIAL (SEE NOTE 1.)

ADD -0641
EC NO: UCP2010-3048 2010/05/28
DRWN: JJAGUILAR 2010/05/28
CHKD: JBELL 2010/06/11
APPR: FSMITH
DESCRIPTION
REV
S2

QUALITY SYMBOLS
F1 =0
F2 =0
F3 =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	GEP	1989/07/18
CHECKED BY	RJF	1989/07/18
APPROVED BY	RAS	1989/07/18

TITLE: PLUG HOUSING B.M.I. 2-24 CIRCUITS, MINI-FIT SERIES

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-42475-***1
SHEET NO.: 4 OF 4
SIZE: C

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