LUMENWERX



Project:

Type:

IMPORTANT: a qualified DMX integration consultant is required to ensure proper installation and function of any DMX network



DESCRIPTION

ALCOVE PATTERN is a compact, high-performance luminaire providing efficient asymmetric light distribution. ALCOVE PATTERN measures just 113/16" high by 3 7/8" deep. With peak intensity at 110°, adjustable optics, light output from 350 to 1200 lumens per foot, and efficacy up to 134LPW, ALCOVE PATTERN delivers very effective ceiling illumination. Highly flexible, ALCOVE PATTERN installs in site-built coves and other architectural enclosures in continuous runs with quick-connect wiring. Driver and LED boards are accessible without removing the luminaire. ALCOVE PATTERN is an ideal vehicle for ChromaWerx white tuning in education, office, and healthcare applications where modular luminaires are used.

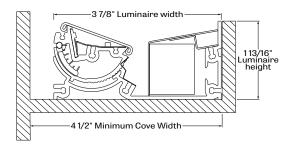
up to 134 lm/w performance

order guide					
ALCPAT	APO	LED			
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	INDIRECT LUMEN PACKAGES	CHROMAWERX
ALCPAT - Alcove Pattern	APO - Adjustable Asymmetric Projecting Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	350 - min. eco low output 350lm/ft 550 - low output 550lm/ft 750 - medium output 750lm/ft #### - other required lm/ft	DUO - tunable white 2 channel control 27k to 65k SOLA - dim to warm single channel control 22k to 35k

TOTAL PATTERN LENGTH	CORNER TYPE	CORNER DEGREE	VOLTAGE	DRIVER
#FT - nominal length in feet	LEVI - Leveled	90(#) - 90 degrees, specify number of corners (#)	120 - 120V	DMX - to specify see pages 5 to 10
(2' increments only)	inside corner	#(#) - Custom degree, specify the angle degree #,	277 - 277V	DA - Dali (duo only) local on-site
#IN - length in inches	LEVO - Leveled	followed by the number of corners (#)		commissioning is required
Continuous Run - for luminaires over	outside corner			0-10 - Single 0-10V input (Sola) or dual
12'. Minimum 4'				0-10V input for CCT/Intensity (Duo)
				PSQO - Lutron T-Series 1% Tunable White

1		W	
ELECTRICAL	MOUNTING	FINISH	OPTIONS
1-1 circuit	COVH - cove horizontal COVV - cove vertical	W - matte white	FU - fuse CU - custom

CROSS SECTION



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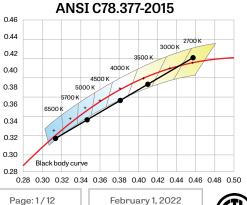
ALCPAT - Alcove Pattern

OPTICS



APO - Asymmetric Projecting Optics

HROMAWERX





LUMENWERX

HOW TO SPECIFY A PATTERN?

Please follow these steps when specifying in order to be as precise as possible.

(1) We require a drawing illustrating the pattern you are trying to achieve - anything from a simple line drawing to elaborate architectural drawings will suffice.

(2) Under TOTAL PATTERN LENGTH, enter the overall length of your pattern - either in feet or inches.

(3) Under CORNER TYPE, please enter the type (or types) of corner you require. If more than one type of corner is required, please separate types with a plus (+).

(4) Under CORNER DEGREE, please enter the angle in degrees of each corner required to complete your pattern, followed by the number of corners.

TOTAL PATTERN LENGTH	CORNER TYPE	CORNER DEGREE
#FT - nominal length in feet	LEVI - Leveled inside corner	90(#) - 90 degrees, specify number of corners (#)
(2' increments only)	LEVO - Leveled outside corner	#(#) - Custom degree, specify the angle degree #, followed by the
#IN - length in inches		number of corners (#)
Continuous Run - for luminaires over 12'. Minimum 4'		

File Name: ALC-PAT-TW-SPEC-REV0

Page: 2 / 12

February 1, 2022



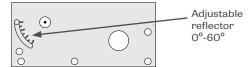
LUMENWERX

OPTICS

ASYMMETRIC PROJECTING OPTIC (APO) -

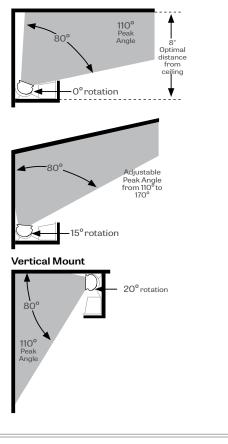
Cartridge-mounted, linear LED arrays are paired with precisely formed specular and matte white reflectors for smooth light distribution. The LED array is protected by a clear acrylic cover. For maximum horizontal projection, the APO cartridge is angled 20°. This produces peak intensity at 110° above nadir and a peak-to-zenith intensity ratio of 11.8:1. Field angle coverage extends for 80°. For optimal beam spread, locate ALCOVE PATTERN at least 8" below the ceiling.

Field Adjustable Aiming (13 options)



The Asymmetric Projecting Optic cartridges can be rotated upwards on site by 60° to increase vertical projection. Click-stop of 5° intervals, as well as visible aiming marks, provide 13 discrete aiming angles and simplify consistent orientation in long coves.

Horizontal Mount



LIGHT SOURCE - LED

PERFORMANCE PER 4' AT 4000K

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
eco low output	4000K	10.5	1400	131
low output	4000K	16.5	2200	134
medium output	4000K	23.5	3000	129

Lumen Adjustment Factors

_	
2700K	0.917
3000K	0.959
3500K	0.988
4000K	1.000
6500K	1.053

Custom linear array of alternating color temperature mid-flux LED's are mounted directly to the housing for optimal thermal performance. For the Duo products, a color temperature range from 2700K-6500K is achievable with color points on or below the black body curve. For the Sola products, a color temperature range from 2200K-3500K is controlled synchronously with intensity. Color consistency between fixtures is maintained to within 3SDCM. LEDs are operated at reduced drive current to optimize efficacy and lumen maintenance.

All LED's have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

PATTERN LENGTH

In continuous runs, modules are connected with easy-to-install joiner kits and electrical quick-connects. Total luminaire length must be 2" shorter than the inside of the cove to permit access to electrical connections.

File Name: ALC-PAT-TW-SPEC-REVO

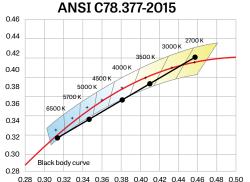
Page: 3 / 12

February 1, 2022



LUMENWERX

CHROMAWERX - TUNABLE WHITE



ChromaWerx Sola is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple digital or analog control sends a common signal to dual output digital drivers, which are programmed to adjust a specially populated LED array to emulate the effect of dimming a filament source. Dimming range is programmable but the default option runs from 3500K at 100% of full power to 2200K at 5% of full power. CRI is maintained above 80 throughout the dimming range.

ChromaWerx Duo is two-channel control. It uses an analog (0-10V) protocol for separate control of luminaire CCT and intensity or a digital (DMX, DALI) protocol for synchronous control of both warm and cool LED arrays to enable the user to set color temperature and light output. Commonly called "tunable white", ChromaWerx two-channel control provides the range of warm (2700K) to cool (6500K) color that can be useful for helping to entrain circadian rhythms, stimulate alertness for improved educational and work productivity, and compensate for jet lag, among other applications. The ChromaWerx drivers are programmed to limit maximum light output and power usage across all color temperatures. CRI is maintained above 80.

ELECTRICAL

DMX (Duo only)

Factory-set, adjustable output current, multi-channel LED driver with universal (12O-277VAC) input. Using DMX wall controls (optionally supplied by LumenWerx) or an existing DMX control system, either two channels of LEDs (warm-white & coolwhite) for DUO or four channels of LEDs (Red/Green/Blue/White) for QUADRO are independently adjustable. Each DMX driver has multiple output channels that can be independently addressed at the factory or on-site using built-in RDM (Remote Device Management) functionality. Dimming range from 100%-0%. At maximum driver load, efficiency<89%, PF>0.9, THD<20%.

Dali (Duo Only)

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Using an existing DALI control system (supplied by others), one control channel adjusts the fixture color temperature, and the other control channel adjusts fixture brightness. Dimming range from 100%-0%. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

<u>0-10V (Sola)</u>

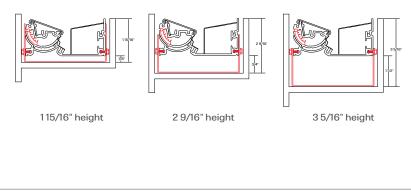
Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Using a single 0-10V control signal, the light output warms in color temperature as it dims down to 1% and 2200K. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

<u>0-10V (Duo)</u>

Factory-set adjustable output current LED driver with universal (120-277VAC) input. Controlled via two individual 0-10V signals, one for setting light output down to a minimum of 1% and the other for adjusting the CCT (default range of 2700K-6500K). Rated life of 50,000 hours at 70°C maximum driver case temperature and 100% load conditions. Typical efficiency of 86%, PF>0.9, THD<20% at 100% load conditions.

ADJUSTABLE MOUNTING BRACKET

For optimal performance, ALCOVE PATTERN should be installed flush to the top of the cove and is furnished with a adjustable mounting bracket to help locate the luminaire in coves of different depths. Mounted directly to the bottom of the cove, ALCOVE PATTERN will be properly positioned in a cove with an inside depth of 115/16". The mounting bracket help raises the luminaire up to 3 5/16" in 1/8" increments. Other brackets height can be specified.



File Name: ALC-PAT-TW-SPEC-REVO

Page: 4 / 12

February 1, 2022





FINISH

Interior - 95%, reflective matte powder coated white paint Exterior - matte white powder coating.

CONSTRUCTION

Housing - extruded aluminum 0.075" nominal thickness / Painted White Reflectors - extruded aluminum 0.080" nominal thickness / Unfinished Dust-Cover - Extruded Clear Acrylic 0.050" nominal thickness Interior Brackets - 22 GA CRS / Painted White White Reflectors - 22 GA CRS / Painted White Specular reflectors - Specular aluminum sheet 0.020" thickness / Unfinished End-Plates - 16 GA CRS / Painted White Reflector Cartridge End-Plates - 14 GA CRS / Painted White

Joiner Plates - 16 GA CRS / Painted White

MAINTENANCE

LED boards are removable from the cartridge for easy replacement. Both cartridge and driver are accessible without removing the luminaire.

WEIGHT

ALCOVE PATTERN 4ft - 4.2Kg - 9.4 lb **ALCOVE PATTERN 8ft** - 8.4Kg - 18.8 lb **ALCOVE PATTERN 12ft** - 12.6Kg - 28.2 lb

CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

WARRANTY

For all ChromaWerx products, LumenWerx provides a three-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. LumenWerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

Wall controllers are covered by the manufacturer warranty.

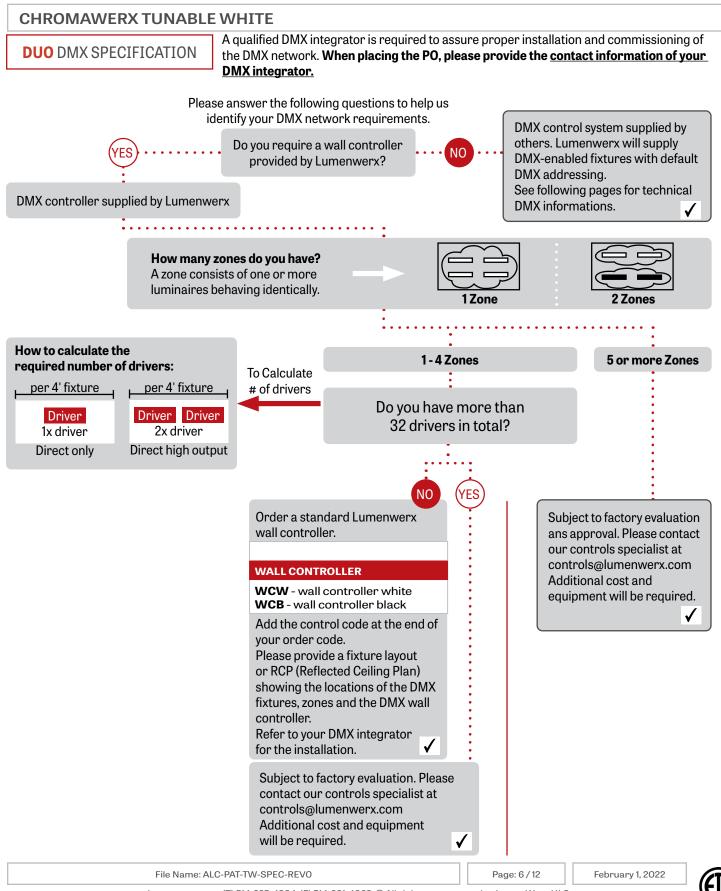
File Name: ALC-PAT-TW-SPEC-REVO

Page: 5 / 12

February 1, 2022







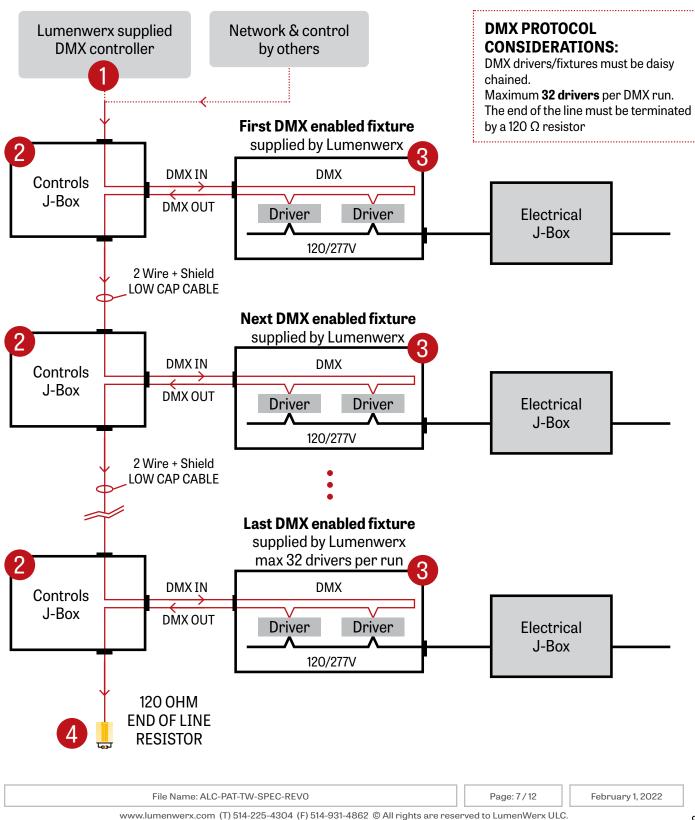
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Intertek

LUMENWERX

CHROMAWERX TUNABLE WHITE

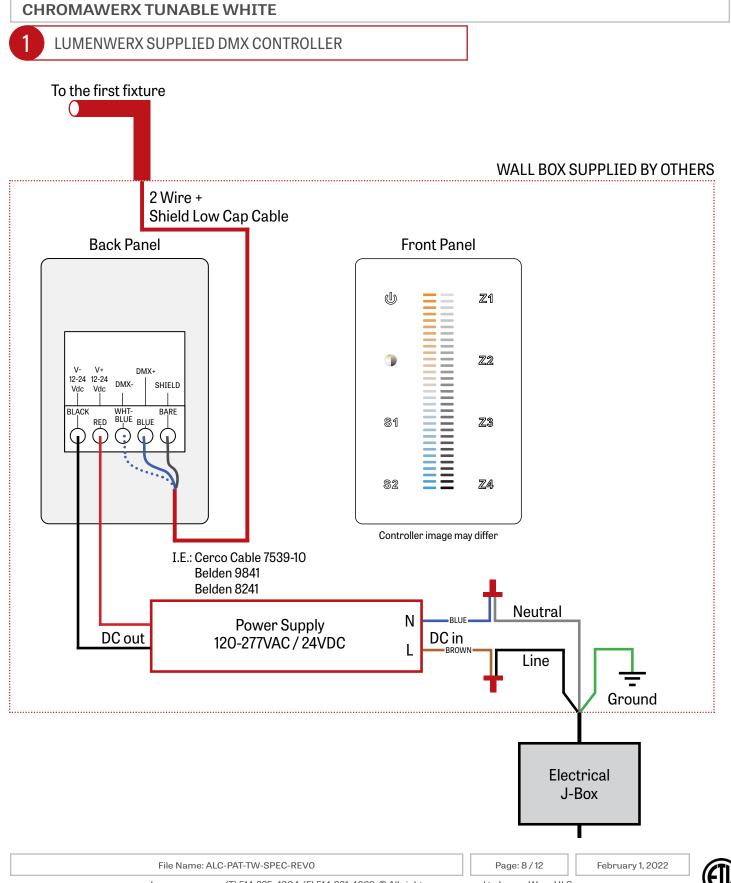
GENERIC DMX NETWORK ARCHITECTURE



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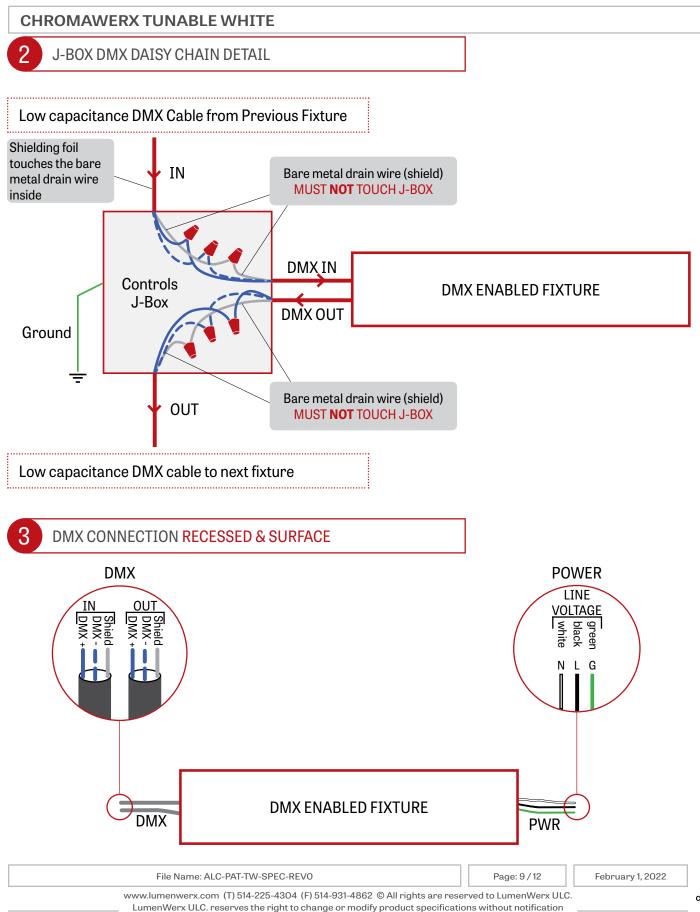












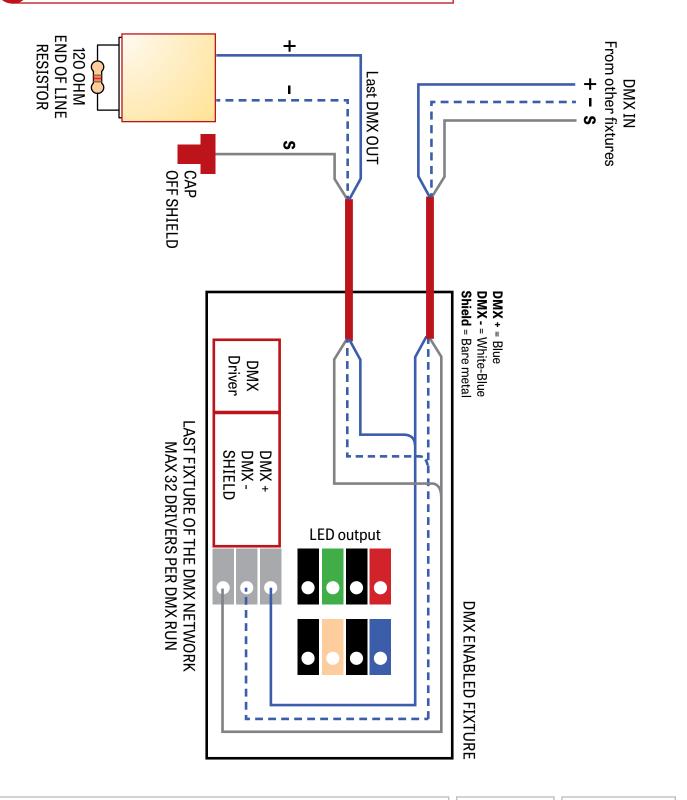


LUMENWERX



DMX LAST FIXTURE DETAIL

4



File Name: ALC-PAT-TW-SPEC-REVO

Page: 10 / 12

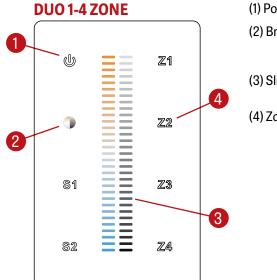
February 1, 2022



LUMENWERX

CHROMAWERX TUNABLE WHITE

DMX WALL CONTROLLER



Power:	Use this button to turn ON or OFF the fixture.
Brightness/CCT:	Use the color/brightness toggle button to choose between color/brightness. When Blue: brightness is selected, when Yellow: color is selected.
Slider:	Depending on the mode chosen in step 2, the slider will allow the user to set desired color or brightness.
Zone select:	Up to 4 zones can be selected either independently or together. Once selected, the commands will be sent to the zone identified by a Blue LED.

Default DMX Addresses: 1 Warm 2 Cool

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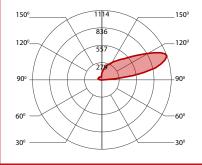
Page: 11 / 12

February 1, 2022



LUMENWERX

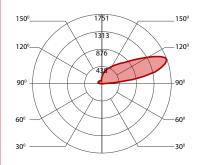
350 LUMEN AT 80CRI - ECO LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
eco low output	2700K	11.5	1400	121
eco low output	3000K	11	1400	125
eco low output	3500K	11	1400	127
eco low output	4000K	10.5	1400	131
eco low output	6500K	10.5	1400	136

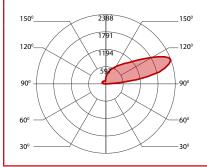
550 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	2700K	18	2200	123
low output	3000K	17.5	2200	127
low output	3500K	17	2200	129
low output	4000K	16.5	2200	134
low output	6500K	16	2200	139

750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	25	3000	119
medium output	3000K	24.5	3000	122
medium output	3500K	24	3000	125
medium output	4000K	23.5	3000	129
medium output	6500K	22.5	3000	134

Page: 12 / 12

February 1, 2022

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