SYNERGY 21

User Manual

Applicable Article NO.

A174629, A174630, A174631
A174624, A174625, A174626

Technical Data

Max Current of Pin: 5A
Voltage: DC3V~DC36V
Working Ambient TEMP.: -10~40°C
Heat Resistance: 105°C
Workable Wire: 22-20 AWG / 0.32-0.52 mm^2

Tools Needed

Clamp and Scissors

Cautions

⚠ This Connector is not for outdoor use
⚠ DO NOT close cap before connection as it is hard to open again
⚠ DO NOT bend cap offen as it may break
⚠ Silicon wire is not workable to this connector
⚠ Keep away from kids

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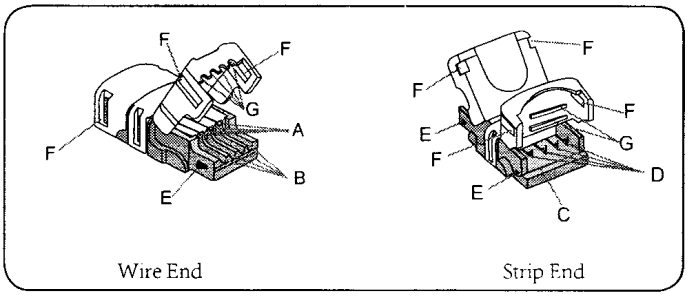
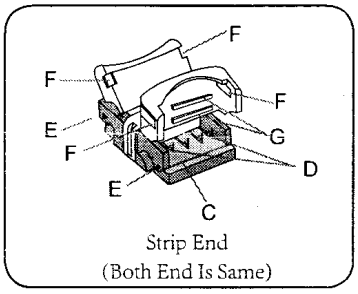
Structure Mark

Strip to Wire **Take 4 pin version as example here, other types has different pin number.*



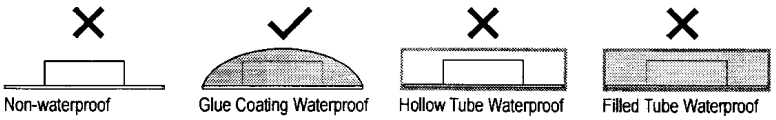
Strip to Strip Joint



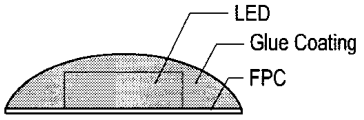
A=WIRE BLADE
B=WIRE GROOVE
C=STRIP HOLDER
D=STRIP END PIN
E=BASE SIDE LATCH
F=CAP LATCH HOLE
G=CAP PRESSING BAR

Applicabie Strip Light and wire

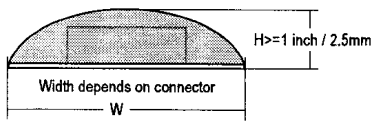
Workable Strip Light Requirement (Cross Section View)



Strip Light Cross Section



Workable Strip Dimension



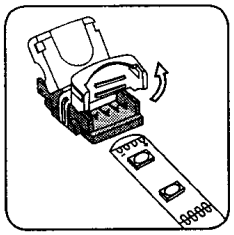
Step 1 Connect to Strip

*Use 4 pin version to demostrate here.

*This part is applicable to both strip to wire and strip to strip joint

1-1 Open Cap

Turn cap up to till you can see STRIP END PIN, Recommend turning it upward for 75 ~ 90 degree

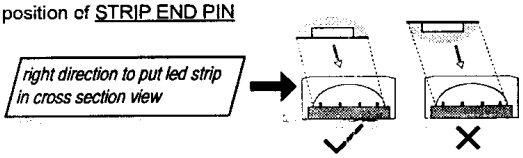


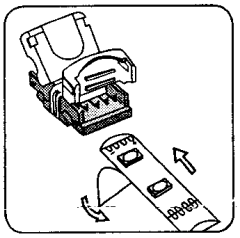
DO NOT peel glue coating !

1-2 Insert Strip Light Above Pin

1-2-A: Remove coating paper of 3M tape for 2 CM long.

1-2-B: Push strip light in till solder pad position beyond position of STRIP END PIN



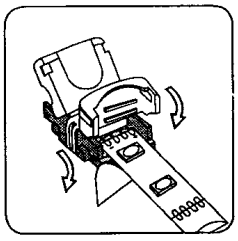


1-3 Snap Cap and Lock

1-3-A: Slowly snap cap to bite strip

1-3-B: Then press cap with force that is enough to push strip down in order to make CAP LATCH HOLE hooked by BASE SIDE LATCH. Then STRIP END PIN will pierce PCB from strip light's back side and contact circuit inside board

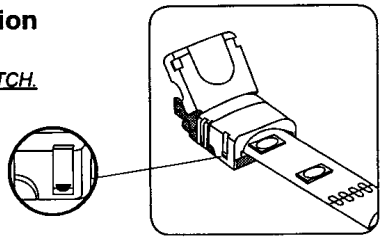
***You can clamp cap with tools if it is hard to do by fingers just avoid strip light to slide out before STRIP END PIN pierce it*



1-4 Finish Strip Light Connection

Ensure cap is locked well by BASE SIDE LATCH.

***For Strip to Strip Joint, just repeat step 1~3 at another end. Because both end has same operation.*



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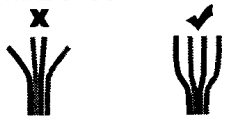
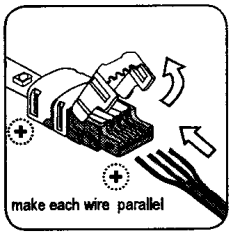
Step 2 Attach Power Wire

*Use 4 pin version to demostrate here.

2-1 Open Cap and Prepare Wire

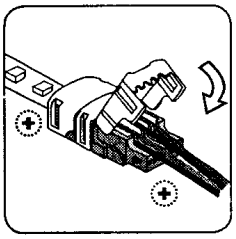
2-1-A: Turn cap up for 75 degree around
Ensure wire polarity match polarity of strip light.
2-1-B: Separate flat wire and reshape each to be parallel in order to fit WIRE GROOVE





2-2 Place Wire Above WIRE BLADE

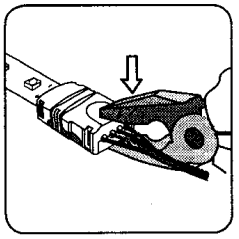
When align to WIRE BLADE, you can check wire position from Right Back Side. Like image showing at right.



2-3 Clamp Cap Down to Lock.

2-3-A: Slowly snap cap by finger and make it bite wire,don't relax it.

2-3-B: Clamp cap down in order to push wire into WIRE BLADE. Ensure CAP LATCH HOLE is locked by BASE SIDE LATCH at two side.
The WIRE BLADE will pierce wire insulation to contact wire conductor inside.



2-4 Finish Wire Attaching

Ensure cap are locked well at both side.