# ENTTEC

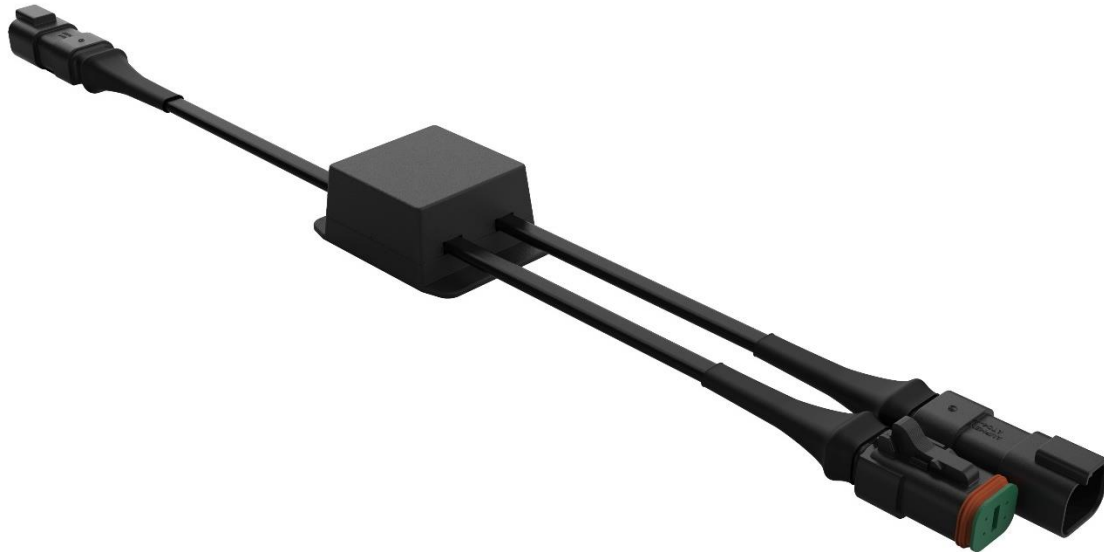SMART PXL POWER INJECTOR
Visit the ENTTEC website for the
latest version of this document

# SMART PXL Power Injector (24V/48V)

Inject power to your Smart PXL system to increase the number of Dots per string.
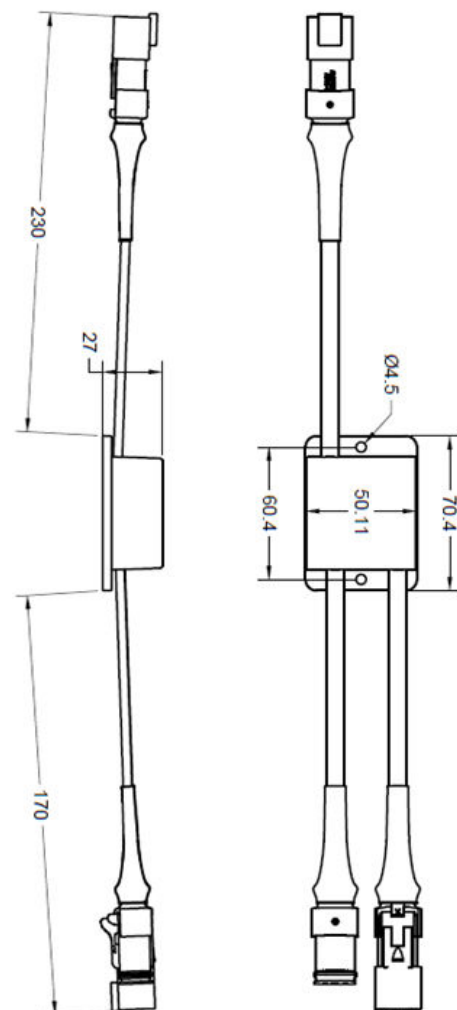
AUSTRALIAN
DESIGNED + MADE

Use the Power injector to get the most value from your Smart PXL Dot system by to combating the effect of voltage drop and increasing the number of Dots that can be connected to each controller's data output.

By adding more injectors and power supplies you can keep on extending until you reach the data limit of your system.

For specification information for custom pixel pitches, see the Smart PXL installation guide or speak to a member of ENTTEC's technical sales team.

## Features:

- **Inject up to 10A of power to extend the number of dots that can be connected to each pixel controller.**

- **Voltage transient protection on the VCC and Data+ lines.**

- **Reverse polarity protection.**

- **Compatible with ENTTEC Smart PXL Dots.**

- **1* IP67 Female Amphenol AT Series connectors with industrial grade heat shrink for added rigidity.**

- **2* IP67 Male Amphenol AT Series connectors with industrial grade heat shrink for added rigidity.**

## Physical dimensions

USB ASSEMBLED WIDGET (70302)
Visit the ENTTEC website for the
latest version of this document

# ENTTEC

## Specification

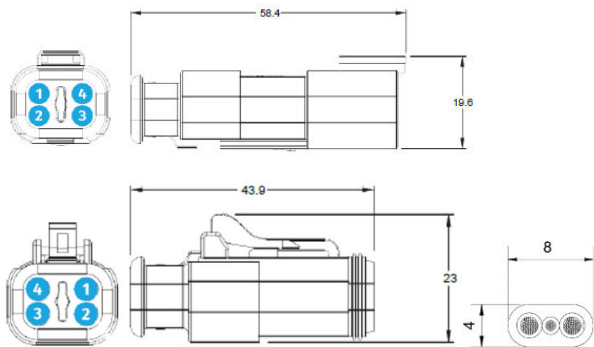| IP rating | IP67 |
|---|---|
| Wire Gauge | 16AWG V+ and V-<br>20AWG data |
| Resistance | 0.02Ω |
| Minimum cable bend radius | 80.88mm / 3.18in |
| Voltage | 24V / 48V (see PN) |
| Max rated current. | 10A |
| Max power dissipated | 1W |
| Environmental operating temperature | -20°C to 50°C /<br>-4°F to 122°F |
| Body material | Plastic |
| Conductor Material | Tinned copper |
| Mounting Hole Diameter | 4.5mm / 0.18in Dia |
| Unit dimensions (mm) | 70*51.5*22mm /<br>2.75*2.02*0.86in |
| Unit weight | 0.14Kg / 0.30lbs |
| Packaging dimensions | 160*140*40mm /<br>6.30*5.51*1.58in |
| Shipping weight (Kg) | 0.20Kg / 0.44lbs |
| Warranty | 3 year return to base manufacturer warranty |

## Certification



## Box contents

- Power injector

## Installation, operation & cleaning

- Installation, operation & cleaning of this accessory should be carried out in accordance with the Smart PXL Installation guide and adhere to all local electrical standards.

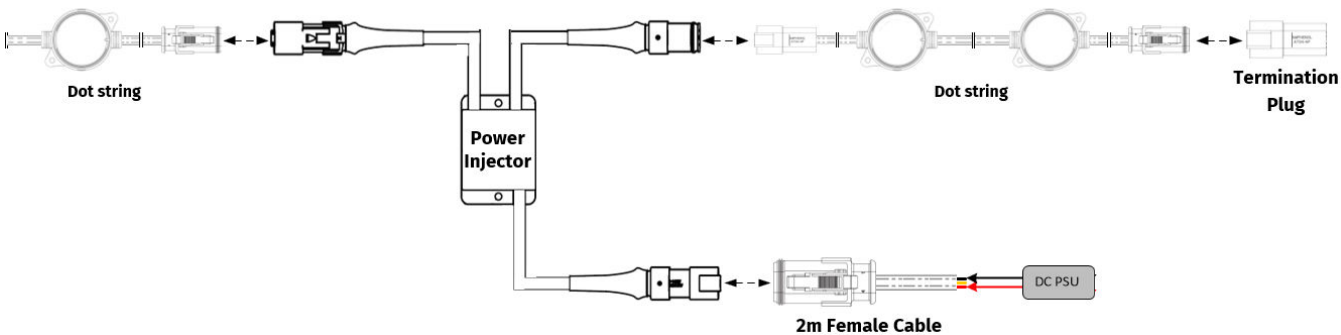- This accessory contains no user serviceable parts.

## Pin output configuration



## Pin Identification chart

| | Cable | 0V | DATA | +24VDC | +48VDC |
|---|---|---|---|---|---|
| **24V** | Dots In<br>Dots Out<br>Power input | Pin 1 | Pin 2 | Pin 3 | - |
| **48V** | Dots In<br>Dots Out<br>Power input | Pin 1 | Pin 2 | - | Pin 4 |

## Wiring diagram



Dot string    Power Injector    Dot string    Termination Plug    2m Female Cable    DC PSU

ID: 5929834

◼ *DATASHEET – v1.0*

USB ASSEMBLED WIDGET (70302)
Visit the ENTTEC website for the
latest version of this document

# Ordering information

Visit www.enttec.com for further support and browse ENTTEC's range of LED lighting and control products.

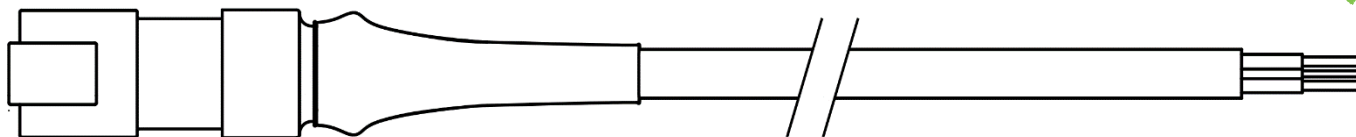| Item | Part No. |
|---|---|
| Power Injector (24V) | 73019 |
| Power Injector (48V) | 73023 |

# enttec.com

**MELBOURNE** AUS / **LONDON** UK / **RALEIGH-DURHAM** USA

*Due to constant innovation, information within this document is subject to change.*

# ENTTEC

2m Male Cable
Visit the ENTTEC website for
the latest version

# 2m Male Cable

Smart PXL DOT accessory (24V/48V)
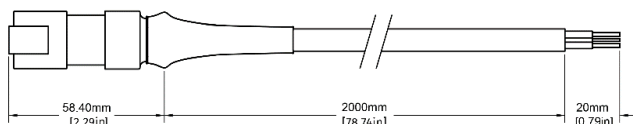
**AUSTRALIAN
DESIGNED + MADE**

## FEATURES

- ■ IP67 Male Amphenol AT Series connector with industrial grade heat shrink for added rigidity.

- ■ 3 core bare end.

- ■ 2-meter round Fire Retardant PVC cable with resistance to UV.

- ■ Compatible with ENTTEC Smart PXL Dots for fast connection.

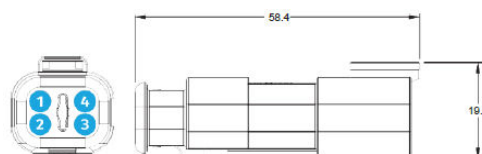- ■ Longer cable length available. (contact us for more info)

## SPECIFICATION

| IP Rating | IP67 (excl. bare end) |
|---|---|
| Total Length | 2.08m / 81.8in |
| Core Count | 3 |
| Wire Gauge | 16AWG |
| Conductor Size | 1.50mm² |
| Conductor stranding | 7/0.50mm² |
| Conductor Material | Copper (stranded) |
| Electrical Resistance | 0.03Ω |
| Shield | Aluminum foil + tinned copper drain wire |
| Cable Diameter | 6.74mm / 0.265in |
| Minimum Bend Radius | 80.88mm / 3.18in |
| Cable Jacket | FRPVC |
| UV Resistant | Yes |
| Connector | Amphenol AT Series Male |
| Unit Weight | 0.135kg / 0.30lbs |
| Packaging dimensions | Packaged on a custom order basis. |
| Warranty | 3 year return to base manufacturer warranty. |

## PHYSICAL DIMENSIONS

58.40mm [2.29in]     2000mm [78.74in]     20mm [0.79in]

## PIN OUTPUT CONFIGURATION

58.4     19.6

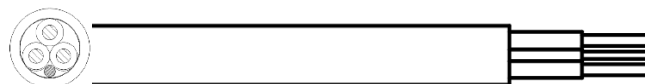## CORE IDENTIFICATION CHART

Each Smart PXL string or accessory is comprised of 3 stranded copper cores, the pinout is as follows:

| Identifier | 24V | | 48V | |
|---|---|---|---|---|
| | Function | Pin | Function | Pin |
| Black core | V- | 1 | V- | 1 |
| White | Data | 2 | Data | 2 |
| Red core | 24V DC + | 4 | 48V DC + | 3 |

*ENTTEC recommend the use of cable ferrules when connecting non-tinned cable.*

## ORDERING INFORMATION

| Product | PN |
|---|---|
| 2m Male Cable (24V) | 73017 |
| 2m Male Cable (48V) | 73021 |

Visit www.enttec.com to browse compatible pixel products and control system components. For any sales requests, OEM enquiries or to give product feedback contact our team at sales@enttec.com.
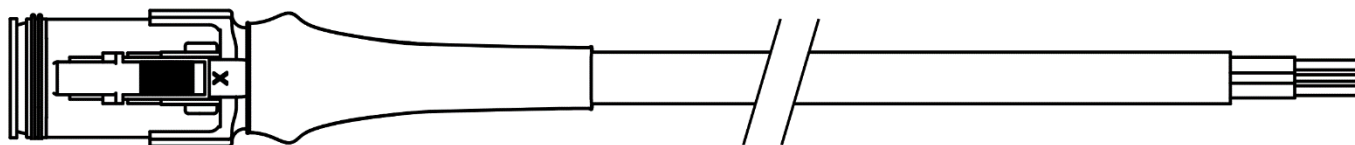
# enttec.com

**MELBOURNE** AUS / **LONDON** UK / **RALEIGH-DURHAM** USA

*Due to constant innovation, information within this document is subject to change.*

2m Female Cable
Visit the ENTTEC website for
the latest version

# ENTTEC

# 2m Female Cable

Smart PXL DOT accessory (24V/48V)
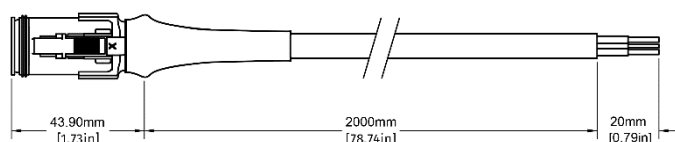
**AUSTRALIAN DESIGNED + MADE**

## FEATURES

- ■ IP67 Female Amphenol AT Series connector with industrial grade heat shrink for added rigidity.

- ■ 3 core bare end.

- ■ 2-meter round Fire Retardant PVC cable with resistance to UV.

- ■ Compatible with ENTTEC Smart PXL Dots for fast connection.

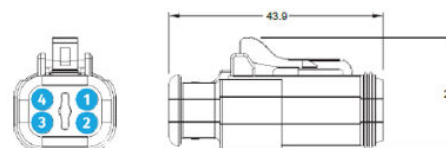- ■ Longer cable length available. (contact us for more info)

## SPECIFICATION

| IP Rating | IP67 (excl. bare end) |
|---|---|
| Total Length | 2.07m / 81.26in |
| Core Count | 3 |
| Wire Gauge | 16AWG |
| Conductor Size | 1.50mm² |
| Conductor stranding | 7/0.50mm² |
| Conductor Material | Copper (stranded) |
| Electrical Resistance | 0.03Ω |
| Shield | Aluminum foil + tinned copper drain wire |
| Cable Diameter | 6.74mm / 0.265in |
| Minimum Bend Radius | 80.88mm / 3.18in |
| Cable Jacket | FRPVC |
| UV Resistant | Yes |
| Connector | Amphenol AT Series Female |
| Unit Weight | 0.135kg / 0.30lbs |
| Packaging dimensions | Packaged on a custom order basis. |
| Warranty | 3 year return to base manufacturer warranty. |

## PHYSICAL DIMENSIONS

43.90mm [1.73in]    2000mm [78.74in]    20mm [0.79in]

■*DATASHEET*

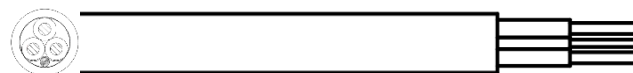## PIN OUTPUT CONFIGURATION

## CORE IDENTIFICATION CHART

Each Smart PXL string or accessory is comprised of 3 stranded copper cores, the pinout is as follows:

| Identifier | 24V | | 48V | |
|---|---|---|---|---|
| | Function | Pin | Function | Pin |
| Black core | V- | 1 | V- | 1 |
| White | Data | 2 | Data | 2 |
| Red core | 24V DC + | 4 | 48V DC + | 3 |

*ENTTEC recommend the use of cable ferrules when connecting non-tinned cable.*

## ORDERING INFORMATION

| Product | PN |
|---|---|
| 2m Female Cable (24V) | 73018 |
| 2m Female Cable (48V) | 73022 |

Visit www.enttec.com to browse compatible pixel products and control system components. For any sales requests, OEM enquiries or to give product feedback contact our team at sales@enttec.com.
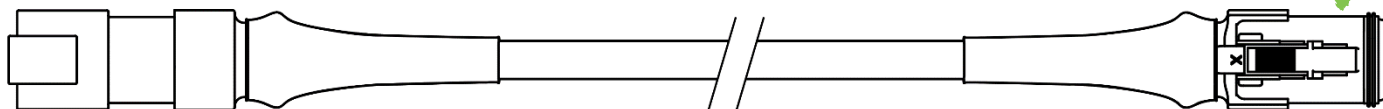
# enttec.com

**MELBOURNE** AUS / **LONDON** UK / **RALEIGH-DURHAM** USA

*Due to constant innovation, information within this document is subject to change.*

2m Extension Cable
Visit the ENTTEC website for
the latest version

# ENTTEC

# 2m Extension Cable

Smart PXL DOT accessory (24V/48V)

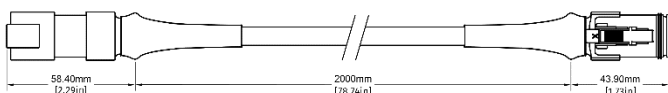**AUSTRALIAN
DESIGNED + MADE**

# FEATURES

- **IP67 Male Amphenol AT Series connector with industrial grade heat shrink for added rigidity.**

- **IP67 Female Amphenol AT Series connector with industrial grade heat shrink for added rigidity.**

- **2-meter round Fire Retardant PVC cable with resistance to UV.**

- **Compatible with ENTTEC Smart PXL Dots for fast connection.**

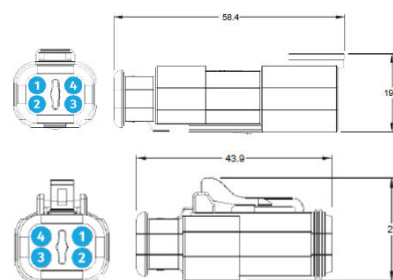- **Longer cable length available. (contact us for more info)**

# SPECIFICATIONS

| IP Rating | IP67 |
|---|---|
| Total Length | 2.11m / 82.76in |
| Core Count | 3 |
| Wire Gauge | 16AWG |
| Conductor Size | 1.50mm² |
| Conductor stranding | 7/0.50mm² |
| Conductor Material | Copper (stranded) |
| Electrical Resistance | 0.032Ω |
| Shield | Aluminum foil + tinned copper drain wire |
| Cable Diameter | 6.74mm / 0.265in |
| Minimum Bend Radius | 80.88mm / 3.18in |
| Cable Jacket | FRPVC |
| UV Resistant | Yes |
| Connector | Amphenol AT Series |
| Unit Weight | 0.175kg / 0.39lbs |
| Packaging dimensions | Packaged on a custom order basis. |
| Warranty | 3 year return to base manufacturer warranty. |

# PHYSICAL DIMENSIONS

58.40mm [2.29in]　　2000mm [78.74in]　　43.90mm [1.73in]

# PIN OUTPUT CONFIGURATION

58.4　19.6

43.9　23
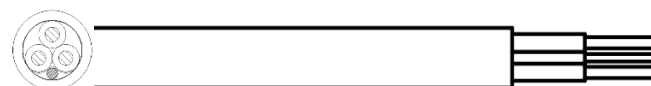
# CORE IDENTIFICATION CHART

Each Smart PXL string or accessory is comprised of 3 stranded copper cores, the pinout is as follows:

| Identifier | 24V | | 48V | |
|---|---|---|---|---|
| | Function | Pin | Function | Pin |
| Black core | V- | 1 | V- | 1 |
| White | Data | 2 | Data | 2 |
| Red core | 24V DC + | 4 | 48V DC + | 3 |

# ORDERING INFORMATION

| Product | PN |
|---|---|
| 2m Extension Cable (24V) | 73020 |
| 2m Extension Cable (48V) | 73024 |

Visit www.enttec.com to browse compatible pixel products and control system components. For any sales requests, OEM enquiries or to give product feedback contact our team at sales@enttec.com.
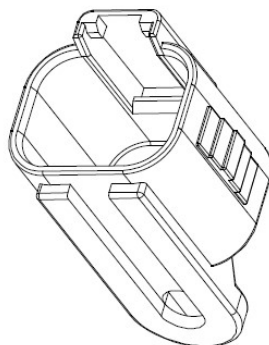
# enttec.com

**MELBOURNE** AUS / **LONDON** UK / **RALEIGH-DURHAM** USA

*Due to constant innovation, information within this document is subject to change.*

# ENTTEC

# Termination End Cap

Smart PXL DOT accessory

## FEATURES

- Used to protect the final female Amphenol AT series connector in a Smart PXL DOT chain from short circuiting or and corrosion in wet conditions
- IP67
- M5 hole for surface mounting
- Sold in pack of 5
- Compatible with ENTTEC Smart PXL Dots

## SPECIFICATIONS

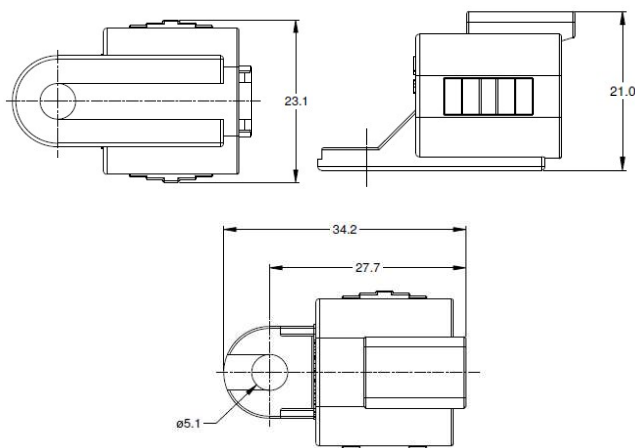| Length | 34.2mm |
|---|---|
| Width | 23.1mm |
| Height | 21.0mm |
| Unit Weight | 4.1g |

## ORDERING INFORMATION

| Product | PN |
|---|---|
| Termination End Cap | 73015 |

Visit www.enttec.com to browse compatible pixel products and control system components. For any sales requests, OEM enquiries or to give product feedback contact our team at sales@enttec.com.

## PHYSICAL DIMENSIONS



■*DATASHEET 73015*

# enttec.com

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA

*Due to constant innovation, information within this document is subject to change.*