



Circular Lighting Sealed Connector

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KEY FEATURES

- Sealed to IP67
- Pre-positioned 1/4 turn coupling ring with positive lock and alignment features
- Unique contact pattern for each position size helps prevent accidental mating with other position sizes
- No assembly required
- Low profile 18.2mm diameter design
- Designed for 1.0 square mm wire size
- Clear locking sound when connection occurs
- Accepts rubber insulated cables
- ROHS compliant

DESCRIPTION

Connector system available in wire-to-wire configurations.

2,3 & 4 positions available

Utilizes existing Mini-Universal MATE-N-LOK contacts

This economic, low profile Circular lighting Sealed Connector is especially designed for LED power & signal wire-to-wire connection systems in a wide range of outdoor applications, but also for traditional outdoor lighting applications as well

Design according to MIL-STD-202, IEC 60529 and EIA-364

APPLICATIONS

LED lighting outdoor applications: LED strip lighting, spot lighting, wall wash lighting, billboards, tunnel lighting, flood lights and street lighting

Traditional lighting outdoor applications: strip lighting, spot lighting, wash wall lighting, tunnel lighting, street lighting and flood lights

ELECTRICAL

	Operating Voltage (V AC/DC)	Operating Current (A)
2P	220	7
3P	48	7
4P	48	7

Remark: The data is base on 1 square mm wire size.

Dielectric withstanding voltage: 2200 VAC maximum for 2 position connector

MECHANICAL

Field repairable contacts

Positive latching

Housing: Single piece design, plastic

Wire termination: Crimp

Operating temperature: -55°C to 105°C

Mating application: wire-to-wire

Cable type: 1.0 square mm wire size

MATERIALS

Housing: UL94V-0 high temperature resistant thermoplastic

Contact: Copper alloy, tin over nickel plating

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STANDARDS & SPECS

Product Specification: 108-106022

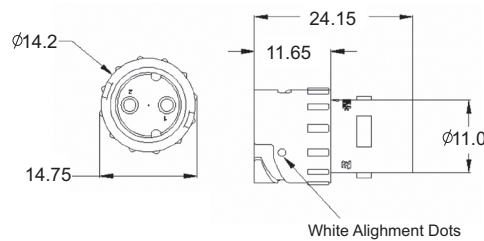
Application Specification: 114-106022

VDE and CCC (In Applying)

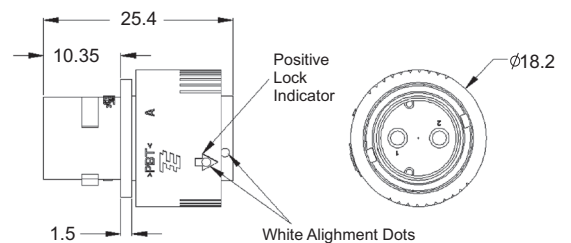
PRODUCT DIMENSIONS

The outer dimensions for 2, 3 & 4 position connectors are the same.

Plug Connector, Free-Hanging



Cap Connector, Free-Hanging



PRODUCT OFFERING

There are a wide variety of custom discrete type cable assembly options available including: terminals and splices, soft shell and circular plastic connectors, terminated with TE termination tooling.

Cable assemblies are also available with 1.0 square mm cable length of 150mm. Custom over molded assemblies, insert and injection molding, with specified length cable are available upon special request.

Position	TE P/N	Description
2	1971465-2	Plug cable assy
	1971466-2	Cap cable assy
3	1971362-3	Plug cable assy
	1971363-3	Cap cable assy
4	1971362-4	Plug cable assy
	1971363-4	Cap cable assy

Connector and O ring Part Numbers

No. of Pos.	Cap housing	Plug housing	Plug housing	O-ring
2	1971163-2	1971162-2	1971164-1	1971165-1
3	1971163-3	1971162-3	1971164-1	1971165-1
4	1971163-4	1971162-4	1971164-1	1971165-1

Wire Size and Contact Part Numbers

Wire size	Contact	
	Pin	Socket
AWG 22-18	770903	770904
AWG 20-16	794406-1	794407-1
1.0mm ²	794406-1	794407-1

Tooling Part Numbers

Insertion tool 91002-1 (408-7347) is available for inserting contacts crimped to small wire or when the wire bundle is too large for hand insertion. Extraction tool 189727-1 (108-4118) is designed for removing both pin and socket contacts from the connectors.

www.tycoelectronics.com

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