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Electrical Products IP68 Plug and Sockets



Applications: Traffic Signals, Street Lighting, Illuminated Signs, Information Signs, CCTV, Vas Signs, VMS Signs

The NAL IP68 Plug and Socket System are a range of robust, watertight cable connectors developed for use with all highway street furniture. This product range enables the quick, simple and safe connection and disconnection of electric cables feeding any illuminated pole or column. The connectors can be moulded to a wide range of cable types and sizes which are available with multiple circuit layouts. Each female connector is manufactured with a pre moulded cap which protects the connections when it is not in use or if it is being pulled through a duct network.

The connectors are manufactured in different colours to identify different voltages. Having an IP68 water ingress rating, the system is suitable for use in above and below ground applications. The system is used extensively for seasonal events, de-mountable street furniture, wide load routes, high risk knockdown sites, and passive safety installations.

Advantages

- Manufactured to BSEN60309 and EN12767
- Completely waterproof and dust proof
 – IP68 Rated
- Protective cap

- Available in 3, 4, 5, 6 & 16 pin
- Can be supplied moulded to a variety of cable types
- Different colours to identify varying voltages
- Allows simple and safe connection and disconnection of electric cables

Further advice on the IP68 PLUGS including specific installation requirements is available from IPL group. Measurements and weights are approximate. The designs are the property of Innovative Products Ltd (IPL group) and may not be reproduced without express permission. Innovative Products reserve the right to amend specifications or to withdraw models without prior notice. © October 2019

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Specification

Cable connectors to be manufactured to BSEN60309 and EN12767:2007.

IP68 water ingress rating.

IEC529 dust ingress rating.

IEC60068-2-IAb dry cold.

IEC 600608-2-14 thermal shock.

IEC 60068-2-3Db damp heat.

IEC 60512-11-6 salt spray.

IEC60068-2-6 vibration / mechanical shock.

EIA-364-23 C contact resistance.

EIA-364-20D dielectric strength.

Rating Chart

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Current	See chart below	
Voltage	200.250V AC	
Operating Temperature Range	-20°C to +80°C	
Storage Temperature Range	-40°C to +85°C	169.8 REF
Storage Humidity Range	+15% to +70% RH	
		$\textcircled{O} \underbrace{\begin{smallmatrix} 0.50 & +0.50 \\ -2.40 \\ \\ Mated Gap \end{smallmatrix}}_{}$

Circuit Layouts

Π D

3 PIN	4 PIN	5 PIN	6 PIN	
AWG 12/13 Amps	AWG 12/10 Amps	AWG 12/8 Amps	AWG 12/8 Amps	AWG 16/3 Amps
BSEN 60309-1 Series 2, 13 Amps	BSEN 60309-1 Series 2, 10 Amps	BSEN 60309-1 Series 2, 10 Amps	BSEN 60309-1 Series 2, 8 Amps	BSEN 60309-1 Series 2, 3 Amps

Note: Higher power application options are available for the 3, 4, 5 & 6 circuit variants.

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