

Flori-67/3P Plug-in 110V Lighting System

Flori-67/3P is a 110 volt plug-in lighting system developed by Blakley Electrics specifically for temporary installations. The system comprises of 100M strings of 1.5mm², 2.5mm² or 4mm² 3 core PVC Arctic Grade cable with a unique, 3 pin, 6A, IP67 outlet moulded at 5M, 7M or 10M intervals. Once luminaires are fixed in position, electrical connection is simply achieved by plugging-in to the nearest Flori-67/3P outlet.

Flori-67/3P with cable cross sections of 1.5mm² and 2.5mm² is intended to be supplied from a source protected by an MCB rated at up to 16A.

Flori-67/3P with a cable cross section of 4mm² is intended to be supplied from a source protected by an MCB rated up to 32A. Please see over the page for full details of circuit protection requirements for Flori-67/3P when fed from an MCB rated above 16A. Please note: all luminaires to be supplied from a source where the overcurrent protection exceeds 16A should incorporate double-pole fuse protection.

Luminaires

Two types of 110V luminaire are available as standard:

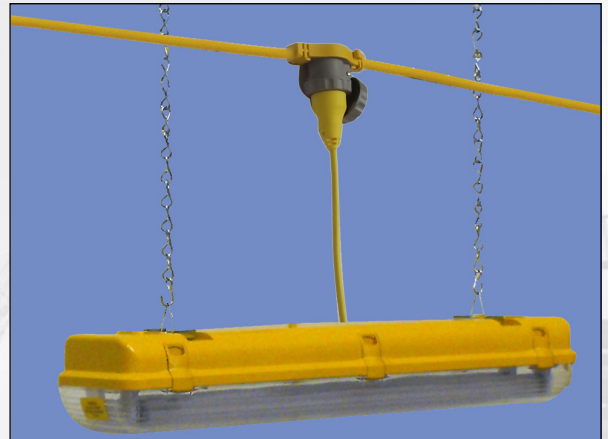
(i) High Frequency High Power Factor Fluorescent fittings, IP65, supplied complete with triphosphor tubes and suspension hooks; available as 5' singles or 2' twins, with or without 3 hour maintained emergency battery packs.

(ii) Metal Halide floodlights available in ratings of 150W and 400W, supplied complete with branded lamp and wall mounting bracket. A range of attachments is available to scaffold mount floodlights.

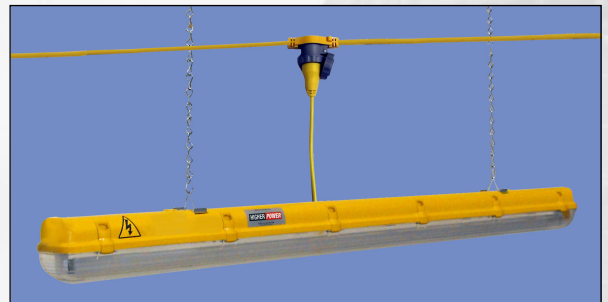
Flori-67/3P luminaires are supplied pre-wired with a 2M, 1.5mm², 3 core input lead fitted with a moulded-on, 6A, IP67, 3 pin, Flori-67/3P plug.

As Flori-67/3P utilises 3C cable only, circuits with emergency fittings should be permanently energised to avoid damaging tubes and battery packs through repetitive discharging. Where there is a requirement to switch off emergency fittings routinely, please refer to our Flori-67/4P system, which incorporates 4 core cable with 4 pin connectors, enabling an unswitched supply to be provided for the emergency pack. Blakley Product Data Sheet ref. HPDS31 refers. Refer to the Blakley Calculator on our website (www.blakley.co.uk) to calculate the reduction in CO₂ emissions and running costs achieved by turning off lights. The savings can be dramatic!

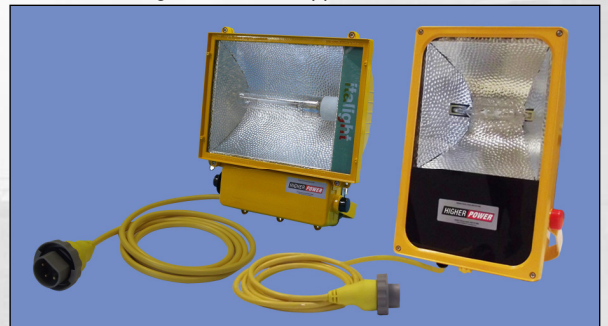
Please see over the page for standard Flori-67/3P part numbers, as well as guidance on circuit protection and information about lighting design, etc.



2' Twin Luminaire supplied via Flori-67/3P



5' Single Luminaire supplied via Flori-67/3P



150W and 400W MH Floodlights with Flori-67/3P Adaptor



Flori-67/3P Outlet and Flori-67/3P Adaptor

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Cert. No. 902091
HPDS34 - 12/11

Part Numbers		
Flori-67/3P - 100M Strings		
Part No.	Type	Description
S060756	Flori-67/3P/10/1.5	100M 1.5mm ² 3C cable - a Flori-67/3P outlet every 10M
S060755	Flori-67/3P/7/1.5	100M 1.5mm ² 3C cable - a Flori-67/3P outlet every 7M
S060754	Flori-67/3P/5/1.5	100M 1.5mm ² 3C cable - a Flori-67/3P outlet every 5M
S060759	Flori-67/3P/10/2.5	100M 2.5mm ² 3C cable - a Flori-67/3P outlet every 10M
S060758	Flori-67/3P/7/2.5	100M 2.5mm ² 3C cable - a Flori-67/3P outlet every 7M
S060757	Flori-67/3P/5/2.5	100M 2.5mm ² 3C cable - a Flori-67/3P outlet every 5M
S060803	Flori-67/3P/10/4	100M 4mm ² 3C cable - a Flori-67/3P outlet every 10M
S060802	Flori-67/3P/7/4	100M 4mm ² 3C cable - a Flori-67/3P outlet every 7M
S060801	Flori-67/3P/5/4	100M 4mm ² 3C cable - a Flori-67/3P outlet every 5M
110V Luminaires all complete with Flori-67/3P input lead. Fluorescents complete with tube(s) and hooks. Floodlights complete with lamp and wall bracket.		
S060761	Flori-67/3P/158/HF/HPF	Standard 5' single fitting with Flori-67/3P adaptor
S060762	Flori-67/3P/158/HF/HPF/EMER	Emergency 5' single fitting with Flori-67/3P adaptor
S060763	Flori-67/3P/218/HF/HPF	Standard 2' twin fitting with Flori-67/3P adaptor
S060764	Flori-67/3P/218/HF/HPF/EMER	Emergency 2' twin fitting with Flori-67/3P adaptor
S060812	Flori-67/3P/158/HF/HPF/DPF	Standard 5' single fitting with Flori-67/3P adaptor, DP fuse protected
S060813	Flori-67/3P/158/HF/HPF/EMER/DPF	Emergency 5' single fitting with Flori-67/3P adaptor, DP fuse protected
S060814	Flori-67/3P/218/HF/HPF/DPF	Standard 2' twin fitting with Flori-67/3P adaptor, DP fuse protected
S060815	Flori-67/3P/218/HF/HPF/EMER/DPF	Emergency 2' twin fitting with Flori-67/3P adaptor, DP fuse protected
S060804	Flori-67/3P/150/MH/DPF	150W Metal Halide floodlight with Flori-67/3P adaptor, DP fuse protected
S060805	Flori-67/3P/400/MH/DPF	400W Metal Halide floodlight with Flori-67/3P adaptor, DP fuse protected
S060760	Flori-67/3P Adaptor	Yellow Adaptor c/w 2M 1.5mm ² 3C Yellow cable
Project specific transformers to supply Flori-67/3P strings		
Site or Tunnel Lighting Transformers, single or three phase, with primary voltages of 400V, 1000V or 3300V, providing a RLV (110V) output. Transformer windings are of low impedance design and outgoing circuits are protected by MCB and RCD (see "Circuit Protection" below). Transformers with dual output voltages (400V and 110V) can also be supplied, typically for tunnel applications fed from a 3300V supply.		
For tunnel applications, Flori-67/3P can be made from LSF cable.		

Circuit Protection

Flori-67/3P strings made from 1.5mm² or 2.5mm² cable are intended to be supplied from DP MCBs with a maximum rating of 16A and all Flori-67/3P cabling has a minimum rating of 16A. The Flori-67/3P outlet and adaptor are rated at 6A and should only be used to supply single luminaires with a full load current of 6A each or less. In order to meet the 5 second disconnection time requirement of BS7671 Regulation 411.8.1.3, it may be necessary to protect each circuit with a medium or high sensitivity RCD and we offer a full range of Site and Tunnel Transformers with integral RCD protection (see data sheets ref. HPDS1 and TMPDS15).

Flori-67/3P strings made from 4mm² cable are intended to be supplied from DP MCBs with a maximum rating of 32A. Whilst the 100M strings are rated at 32A, the Flori-67/3P Adaptors fitted to the luminaires are made from 1.5mm² cable and the Flori-67/3P outlets are rated at 6A. However, compliance with BS7671 is achieved with this configuration by incorporating suitable Overcurrent Protection and Fault Protection in accordance with BS7671 Section 434. A suitable, compliant arrangement would comprise of: a Blakley Electrics Low Impedance Site or Tunnel transformer; a Flori-67/3P lighting circuit not exceeding 100 metres in length; overcurrent and fault protection provided by a combination of DP, Type "C" MCB rated up to 32A and a medium or high sensitivity RCD; integral fuse protection within luminaires. If in doubt, please provide full details of the installation and we can model specific combinations of transformer, luminaire, cable type and circuit protection. We can also model designs for longer 110V lighting circuits up to 200 metres in length.

Lighting Design

We can provide generic designs for typical site installations and provide basic lighting schemes for specific projects. Please contact us to discuss the range and scope of services that we are able to provide.

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