LED FLOOD LIGHT SOLUTIONS
Harsh and Hazardous Products

www.hubbell-killark.com
### LIGHTING INDEX

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>PAGE NO.</th>
<th>NEMA 4 (or 4X or IP66)</th>
<th>Class I, Div. 2 / Zone 2</th>
<th>Class II / II/Div. 1</th>
<th>Class I, Div. 1 C, D / Zone 1</th>
<th>IECEx Zone 1</th>
<th>IECEx Zone 2</th>
<th>ATEX Zone 1</th>
<th>ATEX Zone 2</th>
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FLOODLIGHTING
LED Flood Features and Standards

- Crisp White Light for Excellent Color Rendering - Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – 100,000+ hours with 70% initial lumens

LED Flood Features and Standards

- Long Fixture Life – 50,000 - 55,000 maintenance free hours
- Ambient suitability -50°C to 55°C up to 125W
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- Standard Fixture is supplied with a single 3/4” NPT entry
- Warm LED color option available with 3070 option
- Chromaticity output: Standard – 5000K 70 CRI 3070 option – 3000K 70 CRI
- TURTLE option provides Amber LEDs that have no blue wavelength light
- AMBER option provides phosphor converted LEDs.
## KFL SERIES

### C1D2 FLOOD – ORDERING INFORMATION & TECHNICAL DATA

| CATALOG NO. | WEIGHT LBS./KG | WATTS | VOLTAGE | AMPS | DELIVERED LUMENS | 40°C | 55°C | 40°C | 55°C | 40°C | 55°C | 40°C | 55°C | 40°C | 55°C |
|-------------|----------------|-------|---------|------|------------------|------|------|------|------|------|------|------|------|------|------|------|
| KFL06030    | 30.00 / 13.61  | 60    | 120-277VAC | 0.50-0.20 | 6111 T6 T5 | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C |
| KFL07030    | 70             | 120-277VAC | 0.60-0.30 | 9742 | T6 | T5 | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C |
| KFL07530    | 75             | 120-277VAC | 0.60-0.30 | 7454 | T6 | T5 | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C |
| KFL08530    | 85             | 120-277VAC | 0.70-0.30 | 10840 | T6 | T5 | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C |
| KFL08533    | 90             | 120-277VAC | 0.80-0.40 | 9023 | T6 | T5 | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C |
| KFL08534    | 105            | 120-277VAC | 0.90-0.40 | 10370 | T4A | T4A | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C |
| KFL10530    | 110            | 120-277VAC | 0.90-0.40 | 13780 | T6 | T5 | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C |
| KFL11030    | 125            | 120-277VAC | 1.00-0.50 | 15340 | T6 | T5 | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C | T3C |
| KFL11033    | 150            | 120-277VAC | 1.25-0.54 | 18550 | T5 | - | T3C | - | T3C | - | T3C | - | T5 | T5 | 160 | 160 |
| KFL11530    | 165            | 120-277VAC | 1.38-0.60 | 19220 | T5 | - | T3C | - | T3C | - | T3C | - | T5 | T4 | 160 | 160 |
| KFL19530    | 195            | 120-277VAC | 1.63-0.70 | 21940 | T5 | - | T3C | - | T3C | - | T3C | - | T5 | T4 | 160 | 160 |

### KFL MOUNTS AND ACCESSORIES

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<th>CATALOG NUMBER</th>
<th>DESCRIPTION</th>
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<td>KFS-6</td>
<td>Steel Slipfitter for 2” Pipe (2-3/8” o.d.) Tenon. Slips 3.75” Over Pipe.</td>
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<tr>
<td>KFCB</td>
<td>Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion</td>
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<tr>
<td>KFWB</td>
<td>Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2” Pipe (2-3/8” o.d.) Through 2-1/2” Pipe (2-7/8” o.d.)</td>
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<td>K4040</td>
<td>Heavy Duty Steel Wall Bracket. (Must be with KFCB Crossarm Fitting)</td>
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<tr>
<td>4041</td>
<td>Heavy Duty Steel Wall Bracket 2” Pipe (2-3/8” o.d.) Tenon Fitting. Uses with KFS-6</td>
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<td>KFLG</td>
<td>Wire Guard, 316 Stainless Steel (not used with KFL-DARK)</td>
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<tr>
<td>VMSC10</td>
<td>10’ Stainless Steel Safety Cable with loop grip</td>
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<tr>
<td>KFL-DARK</td>
<td>Dark Sky Visor, White Painted Aluminum (not used with KFLG)</td>
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<tr>
<td>KFL-DOOR</td>
<td>Replacement Door and Lens Assembly (for units w/o internal reflectors)</td>
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<tr>
<td>KFL-DOOR2</td>
<td>Replacement Internal Reflector and Lens Assembly</td>
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### CABLE GLAND ORDERING OPTIONS

<table>
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<tr>
<th>CATALOG #</th>
<th>ENTRY THREADED SIZE (NPT)</th>
<th>BEND</th>
<th>CABLE ACCEPTANCE DETAILS</th>
<th>DIAMETER 'C'</th>
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<td>MCX29</td>
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<td>90°</td>
<td>.73° (18.5) 1.03° (26.2)</td>
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For entire series, please see page 14.
PETOBright® LED FEATURES-SPECIFICATIONS

LED Flood Features and Standards

- One 3/4” NPT hub & R-21
  3/4” x 1/2” reducer is standard
- Crisp White Light for Excellent Color Rendering
  Chromaticity 5000 K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – 100,000+ hours with 70% initial lumens

Supplemental 20KA/10KV Surge Protection is standard (for 120-277 VAC models)
10KA/10KV Surge Protection (for 347-480 VAC)

- Long Fixture Life – 50,000 - 55,000 maintenance free hours
- Ambient suitability -40°C to 55°C
- Instant On – Including after power interruption
- Solder-LESS LED Board Connections – Vibration Resistant

ORDERING INFORMATION AND AMBIENT SUITABILITY

<table>
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<tr>
<th>CATALOG NO.</th>
<th>WEIGHT LBS./KG</th>
<th>WATTS</th>
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LED Wattage

- 15W “30” voltage codes
- 20W “30, 27 or 34” voltage codes
- 25W “30, 27 or 34” voltage codes
- 30W “30” voltage code 120 - 277VAC
- 35W “30” voltage code 120 - 277VAC
- 40W “30” voltage code 120 - 277VAC
- 45W “30” voltage code 120 - 277VAC
- 50W “30” voltage code 120 - 277VAC

Options

- LY - Less Yoke for Wall Mount
- F - Single Fuse (Not for use in Canada)
- FF - 2 Fuses (Not for use in Canada)
- SP - Surge Protection
- TBL - Terminal Blocks Looping
- D75 - Dual 3/4" threaded NPT entry
- M25 - Single M25 Slip-hole Entry
- D25 - Two M25 Slip-hole Entry
- M20 - Single M20 Slip-hole Entry
- D20 - Dual M20 Slip-hole Entry
- PL - Polycarbonate Lens
- 3070 - 3000K (CCT) and 70 CRI LEDs

Dimensions

Trunnion Mounting Detail

Front

Side

SEE WWW.HUBBELL-KILLARK.COM LIGHTING SOFTWARE FOR LATEST LED PHOTOMETRY
**LED Flood Features and Standards**

- **Supplemental 20KA/10KV Surge Protection is standard** (for 120-277 VAC models)
- **10KA/10KV Surge Protection** (for 347-480 VAC)
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – 100,000+ hours with 70% initial lumens
- Long Fixture Life – 50,000 - 55,000 maintenance free hours
- Ambient suitability -40°C to 55°C up to 250W to -50°C for non-hazardous applications
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- Standard fixture is supplied with dual M20 slip holes with 3/4” NPT hub adapters with one plugged
- Warm LED color option available with 3070

**Compliances**

- UL-8750 for LED lighting
- ANSI/UL 1598(A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaries for use in hazardous locations
- Enclosed and gasketed
- Type 3, 4X
- IP66

**Materials**

- Body and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware – stainless steel
- Thermal shock and impact resistant glass lens (Polycarbonate available)
- High temperature silicone gasketing
- Trunnion heavy gauge 316 stainless steel

**IECEx Certificate**

QPS 15.0011

**ATEX Certificate**

CML 15ATEX4079X (nA) & CML 15ATEX3080X (tb)

**Patented Lens and Reflector Design**

**Catalog Number Logic**

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<td>33 – 347 - 480VAC 60Hz (170W to 250W)</td>
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<td>34 – 120 - 250VDC (170W to 250W)</td>
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**Options**

- **PL** - Polycarbonate Lens
- **F** - Single Fuse (Not for use in Canada)
- **FF** - Double Fuse (Not for use in Canada)
- **TBL** - Terminal Blocks Looping
- **P1** - 120V Photocell, factory installed
- **P2** - 208V-277V Photocell, factory installed
- **P3** - 347V Photocell, factory installed
- **3070** - 3000K (CCT) and 70 CRI LEDs
- **TURTLE** - Wildlife Friendly Amber LEDs
- **AMBER** - PC Amber (Phosphor Converted) LEDs
C1D2 FLOOD – ORDERING INFORMATION & TECHNICAL DATA

ORDERING INFORMATION AND AMBIENT SUITABILITY

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>WEIGHT LBS./KG</th>
<th>WATTS</th>
<th>VOLTAGE</th>
<th>AMPS</th>
<th>LUMENS</th>
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Dimensions

KFLH MOUNTS AND ACCESSORIES

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<th>CATALOG NUMBER</th>
<th>DESCRIPTION</th>
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<td>KFS-6</td>
<td>Steel Slipfitter for 2&quot; Pipe (2-3/8&quot; o.d.) Tenon. Slips 3.75&quot; over Pipe.</td>
</tr>
<tr>
<td>KFCB</td>
<td>Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion</td>
</tr>
<tr>
<td>KFWB</td>
<td>Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2&quot; Pipe (2-3/8&quot; o.d.) Through 2-1/2&quot; Pipe (2-7/8&quot; o.d.)</td>
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<td>4041</td>
<td>Heavy Duty Steel Wall Bracket 2&quot; Pipe (2-3/8&quot; o.d.) Tenon Fitting. Use with KFS-6</td>
</tr>
<tr>
<td>KFLG</td>
<td>Wire Guard, 316 Stainless Steel (order 2 per fixture)</td>
</tr>
<tr>
<td>VMSC10</td>
<td>10&quot; Stainless Steel Safety Cable with loop grip</td>
</tr>
<tr>
<td>KFLH-DARK</td>
<td>Dark Sky Visor, White Painted Aluminum</td>
</tr>
<tr>
<td>KFLH-DOOR</td>
<td>Replacement Internal Reflector and Lens Assembly (order 2 per fixture as required)</td>
</tr>
</tbody>
</table>

CABLE GLAND ORDERING OPTIONS

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>ENTRY THREAD SIZE (NPT)</th>
<th>BEND</th>
<th>CABLE ACCEPTANCE DETAILS</th>
<th>DIAMETER ‘C’</th>
<th>MIN.</th>
<th>MAX.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCX19C</td>
<td>1/2&quot; 90°</td>
<td></td>
<td>0.60” (15.2)</td>
<td>82” (208)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCX29</td>
<td>3/4” 90°</td>
<td></td>
<td>0.73” (18.5)</td>
<td>1.03” (26.2)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For entire series, please see page 14.
FEATURES-SPECIFICATIONS

Complies
- UL-8750 for LED lighting
- ANSI/UL 1598(A)
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminaries for use in hazardous locations
- Enclosed and gasketed
- Type 3, 4X
- IP66

Materials
- Body and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware – stainless steel
- Thermal shock and impact resistant glass lens (Polycarbonate available)
- High temperature silicone gasketing
- Trunnion heavy gauge 316 stainless steel

LED Flood Features and Standards

Supplemental 20KA/10KV Surge Protection is standard (for 120-277 VAC models)
10KA/10KV Surge Protection (for 347-480 VAC)

- Crisp White Light for Excellent Color Rendering – Chromaticity 5000K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – 100,000+ hours with 70% initial lumens
- Long Fixture Life – 50,000 - 55,000 maintenance free hours
- Ambient suitability -40°C to 55°C up to 500W to -50°C for non-hazardous applications
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Warm LED color option available with 3070
- Solder-LESS LED Board Connections – Vibration Resistant
- Standard fixture is supplied with dual M20 slip holes with 3/4” NPT hub adapters with one plugged

CATALOG NUMBER LOGIC

<table>
<thead>
<tr>
<th>KFL2H - Series Constant</th>
<th>KFL2H</th>
<th>340</th>
<th>30</th>
<th>XX</th>
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<tr>
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<td>340 - 340W</td>
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<tr>
<td>420 - 420W</td>
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<td>440 - 440W</td>
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<td>500 - 500W</td>
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<td>Voltage</td>
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<td></td>
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</tr>
<tr>
<td>30 – 120 - 277VAC 50/60Hz</td>
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<tr>
<td>33 – 347 - 480VAC 60Hz</td>
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<td></td>
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</tr>
<tr>
<td>34 – 120 - 250VDC (340W to 500W)</td>
<td></td>
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</tr>
</tbody>
</table>

Options
- PL - Polycarbonate Lens
- F - Single Fuse (Not for use in Canada)
- FF - Double Fuse (Not for use in Canada)
- TBL - Terminal Blocks Looping
- P1 - 120V Photocell, factory installed
- P2 - 208V-277V Photocell, factory installed
- P3 - 347V Photocell, factory installed
- IEX - IEXEx includes TBL & External ground
- 3070 - 3000K (CCT) and 70 CRI LEDs
- TURTLE - Wildlife Friendly Amber LEDs
- AMBER - PC Amber (Phosphor Converted) LEDs

Patented Lens and Reflector Design

Dark Sky Visor
KFLH-DARK

IECEx Certificate
QPS 15.0011

ATEX Certificate
CML 15ATEX4079X (nA)
CML 15ATEX3080X (tb)
**C1D2 FLOOD – ORDERING INFORMATION & TECHNICAL DATA**

### Ordering Information and Ambient Suitability

| Catalog No. | Weight Lbs./Kg | Watts | Voltage (120-277VAC) | Volts | amps | Lumens | 40°C | 55°C | 40°C | 55°C | 40°C | 55°C | 40°C | 55°C |
|-------------|----------------|-------|----------------------|-------|------|--------|------|------|------|------|------|------|------|------|------|
| KFL2H34030  | 50.00 / 22.6   | 340   | 120-277VAC 2.92-1.26  |       |      | 43240  | T4A  | T4   | T4   | T4   | T3C  | T4   | 85°C | T100°C |
| KFL2H34033  |                |       | 347-480VAC 1.02-0.72  |       |      |        |      |      |      |      |      |      |      |      |
| KFL2H42034  |                |       | 120-250VDC 3.50-1.50  |       |      | 42440  | T4A  | T4   | T4   | T4   | T3C  | T4   | 85°C | T100°C |
| KFL2H44034  |                |       | 120-250VDC 3.50-1.36  |       |      | 53940  | T4A  | T4   | T3C  | T4   | T3C  | T4   | 85°C | T100°C |
| KFL2H60030  |                |       | 120-277VAC 3.76-1.62  |       |      | 61900  | T4A  | T4   | T4   | T4   | T3C  | T4   | 85°C | T100°C |
| KFL2H70030  |                |       | 120-277VAC 4.24-1.88  |       |      | 74060  | T4A  | T4   | T4   | T4   | T3C  | T4   | 85°C | T100°C |

#### Dimensions

**KFL2H MOUNTS AND ACCESSORIES**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFS-6</td>
<td>Steel Slipfitter for 2&quot; Pipe (2-3/8&quot; o.d.) Tenon. Slips 3.75” Over Pipe</td>
</tr>
<tr>
<td>KFCB</td>
<td>Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion</td>
</tr>
<tr>
<td>KFWB</td>
<td>Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2&quot; Pipe (2-3/8&quot; o.d.) Through 2-1/2&quot; Pipe (2-7/8&quot; o.d.)</td>
</tr>
<tr>
<td>K4040</td>
<td>Heavy Duty Steel Wall Bracket. (Must be with KFCB Crossarm Fitting)</td>
</tr>
<tr>
<td>4041</td>
<td>Heavy Duty Steel Wall Bracket 2&quot; Pipe (2-3/8&quot; o.d.) Tenon Fitting. Use with KFS-6</td>
</tr>
<tr>
<td>KFLG</td>
<td>Wire Guard, 316 Stainless Steel (order 4 per fixture)</td>
</tr>
<tr>
<td>VMSC10</td>
<td>10' Stainless Steel Safety Cable with loop grip</td>
</tr>
<tr>
<td>KFLH-DARK</td>
<td>Dark Sky Visor, White Painted Aluminum</td>
</tr>
<tr>
<td>KFLH-DOOR</td>
<td>Replacement Internal Reflector and Lens Assembly (order 4 per fixture as required)</td>
</tr>
</tbody>
</table>

#### Cable Gland Ordering Options

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Entry Thread Size (NPT)</th>
<th>Bend</th>
<th>CABLE ACCEPTANCE DETAILS</th>
<th>Diameter ‘C’</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCX19C</td>
<td>1/2”</td>
<td>90°</td>
<td>MIN.</td>
<td>.60” (15.2)</td>
</tr>
<tr>
<td>MCX29</td>
<td>3/4”</td>
<td>90°</td>
<td>MAX.</td>
<td>.73” (18.5)</td>
</tr>
</tbody>
</table>

For entire series, please see page 14.

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**Harsh & Hazardous**

*See www.hubbell-killark.com lighting software for latest LED photometry*
C1D1 FLOOD – INTRODUCTION & LOGIC

LED Flood Features and Standards

Supplemental 20KA/10KV Surge Protection is standard (for 120-277 VAC models)

- Factory Sealed Construction
- One 3/4” NPT & one M20 entry standard (see logic for other choices)
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000 K (CCT); approx. 70 CRI
- Energy Savings – High lumens per watt
- LED Array Life – 100,000+ hours with 70% initial lumens
- Long Fixture Life – 50,000 - 55,000 maintenance free hours
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- LT option for models needing IECEx, Zone 1, -50°C to +55°C suitability for hydrogen

Materials

- Body, end caps and lens frame corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware - stainless steel
- Thermal shock and impact resistant extra heavy-duty glass lens
- High temperature silicone gasketing
- Trunnion heavy gauge 316 SS

Compliances

- UL-8750 for LED lighting
- ANSI/UL 1598A
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 1; Class II, Division 1; Class III
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations
- Zone 1 and Zone 21 to IEC 60079-0,60079-1,60079-31, 60079-7 Standards
- Enclosed and gasketed
- Type 3, 4X
- IP66

Patent Pending

Fixture Design

KF1L with KFS-6 Slipfitter mount on 2” pipe

Suitable for Paint Spray

IECEx Certificate

CSA 14.0010

ATEX Certificate

SIRA14ATEX1159X

FEATURES-SPECIFICATIONS

Catalog Number Logic

<table>
<thead>
<tr>
<th>KF1L - Series Constant</th>
<th>KF1L</th>
<th>125</th>
<th>30</th>
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<td>Fixture Wattage</td>
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<tr>
<td>090 - 90W</td>
<td>125</td>
<td>125W</td>
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<tr>
<td>105 - 105W</td>
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<tr>
<td>110 - 110W</td>
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<tr>
<td>Voltage</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 - 120 - 277VAC 50/60Hz +130-300 VDC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33 - 347 - 480VAC 60Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Options

- LT • For -50°C to +55°C, IEC Zone 1
- D20 • Dual M-20 Entries
- D25 • Dual M-25 Entries
- D75 • Dual 3/4” NPT
## KFL MOUNTS AND ACCESSORIES

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFS-6</td>
<td>Steel Slipfitter for 2&quot; Pipe (2-3/8&quot; o.d.) Tenon, Slips 3.75&quot; Over Pipe</td>
</tr>
<tr>
<td>KFCB</td>
<td>Heavy Duty Cast-Iron Crossarm Fitting for Horizontal Trunnion</td>
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<td>KFWB</td>
<td>Heavy Duty Wall Mount and/or Pipe Clamp Fitting Clamps 2&quot; Pipe (2-3/8&quot; o.d.) Through 2-1/2&quot; Pipe (2-7/8&quot; o.d.)</td>
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<td>K4040</td>
<td>Heavy Duty Steel Wall Bracket. (Must be with KFCB Crossarm Fitting)</td>
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<tr>
<td>4041</td>
<td>Heavy Duty Steel Wall Bracket 2&quot; Pipe (2-3/8&quot; o.d.) Tenon Fitting</td>
</tr>
<tr>
<td>KFL6</td>
<td>Wire Guard, 316 Stainless Steel</td>
</tr>
<tr>
<td>VMSC10</td>
<td>10' Stainless Steel Safety Cable with loop grip</td>
</tr>
<tr>
<td>KF1L-DARK</td>
<td>Dark Sky Visor, White Painted Aluminum</td>
</tr>
<tr>
<td>KF1L-DOOR</td>
<td>Replacement Door and Lens Assembly</td>
</tr>
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</table>

## Cable Gland Ordering Options

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>ENTRY THREAD SIZE (NPT)</th>
<th>CABLE ACCEPTANCE DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCX1B</td>
<td>1/2&quot;</td>
<td>DIA. MIN.</td>
</tr>
<tr>
<td>MCX1C</td>
<td>1/2&quot;</td>
<td>0.51&quot; (13.0), 0.63&quot; (16.0)</td>
</tr>
<tr>
<td>MCX2</td>
<td>3/4&quot;</td>
<td>0.73&quot; (18.5), 1.03&quot; (26.2)</td>
</tr>
</tbody>
</table>

For entire series, please see page 14.
KWPL SERIES

WALLPACK

FEATURES-SPECIFICATIONS

Applications
KWPL Wall Luminaires are ideally suited for applications requiring a pleasing aesthetic appearance or hazardous location suitability in a compact energy saving fixture. Units are made of aluminum construction for cool operation with a bronze electrostatically applied powder-coat finish. Suitable for locations such as perimeter security lighting, parking areas, factories and parking garages.

Features
- Aluminum with Bronze finish 1/2” hub on either side for conduit entry
- Suitability for 55°C ambient, 90°C supply wire required (see table)
- Lens thermal shock and impact resistant prismatic borosilicate glass
- Two Hubbell Guard® Corrosion resistant hex head fasteners provide water-tight seal for door gasket
- Options include: factory installed photo cells, fusing

Compliances
- UL 1598 Standard for Luminaires
- UL 844 Standard for lighting fixtures for hazardous locations
- CSA C22 no. 137-M1981 electric luminaires for use in hazardous locations
- Enclosed and gasketed
- Type 3, 4X
- LED Array Life – 100,000+ hours with 70% initial lumens
- Long Fixture Life – 50,000 - 55,000 maintenance free hours

Catalog Logic

Lumen output
- 4 – 4000 lumen
- 6 – 6000 lumen
- 8 – 8000 lumen
- 11 – 11,000 lumen

Voltage
- 30 – 120-277VAC
- 33 – 347-480VAC
- 34 – 120-250VDC

Options
- F – Single Fuse
- FF – Double Fuse
- TBL – Terminal Blocks
- P1 – Photocell 120VAC
- P2 – Photocell 208-277VAC
- P3 – Photocell 347VAC
- LSP – Less Surge Protector

Class I, Div. 2, Groups A,B,C,D
Class I, Zone 2, Groups IIC, IIB, IIA
Type 4X

Certified
ORDERING INFORMATION

ORDERING INFORMATION AND AMBIENT SUITABILITY

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>WEIGHT LBS./KG</th>
<th>WATTS</th>
<th>VOLTAGE</th>
<th>AMPS</th>
<th>LUMENS</th>
<th>40°C</th>
<th>55°C</th>
<th>C1D2</th>
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<tbody>
<tr>
<td>KWPL430</td>
<td>14.00 / 6.35</td>
<td>34</td>
<td>120-277VAC</td>
<td>0.12 - 0.28</td>
<td>4436</td>
<td>T5</td>
<td>T4</td>
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<td>KWPL433</td>
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<td>34</td>
<td>347-480VAC</td>
<td>0.07 - 0.10</td>
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<td>T5</td>
<td>T4</td>
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<td>KWPL434</td>
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<td>46</td>
<td>120-250VDC</td>
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<td>T5</td>
<td>T4</td>
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<td>KWPL630</td>
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<td>120-277VAC</td>
<td>0.17 - 0.38</td>
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<td>T4</td>
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<td>KWPL633</td>
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<td>347-480VAC</td>
<td>0.10 - 0.13</td>
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<td>KWPL634</td>
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<td>0.32 - 0.75</td>
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<td>120-277VAC</td>
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<td>347-480VAC</td>
<td>0.36 - 0.75</td>
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<tr>
<td>KWPL1134</td>
<td></td>
<td>90</td>
<td>120-250VDC</td>
<td>0.36 - 0.75</td>
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</table>

KWPL SERIES WALLPACK

Photo Cell Field Kits for Harsh Type 4X and Class I, Div. 2 Locations

PHOTO CELL FIELD KITS

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>VOLTS</th>
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<tbody>
<tr>
<td>VMFSPC1</td>
<td>120VAC</td>
</tr>
<tr>
<td>VMFSPC2</td>
<td>208-277VAC</td>
</tr>
<tr>
<td>VMFSPC3</td>
<td>347VAC</td>
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</table>

KWP ACCESSORIES

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGPS</td>
<td>Clear Shield (Polycarbonate) for Protecting Lens</td>
</tr>
<tr>
<td>PGWG</td>
<td>Wire Guard, Cadmium Plated Steel</td>
</tr>
<tr>
<td>PVLV</td>
<td>Glare Shield Full Cutoff Visor – Formed Bronze Aluminum Forces light to Walkway</td>
</tr>
<tr>
<td>KWPLENS</td>
<td>Replacement Door and Lens</td>
</tr>
</tbody>
</table>
MC SERIES

ALUMINUM CABLE CONNECTORS

FEATURES-SPECIFICATIONS

Applications
Designed for use with jacketed interlocked, continuously corrugated and welded armor cable (all types shown in chart below). Install where it is essential to provide positive grounding to the cable and for a Type 3,4 connection.

Features
- 360° armor grounding spring is reusable.
- Robust threads and world class seal enables easy installation with minimal torque required.
- Design meets and exceeds third party requirements for cable retention.
- Provides sealing back nut plus inner O-ring seal to prevent moisture ingress to the cable armor and enclosure.
- Copper free aluminum construction for hostile, corrosive and certain hazardous locations

Materials
- Body – Copper free aluminum (less than 4/10 of 1%)
- Ground Spring – Stainless Steel
- Backnut Seal – Thermoplastic elastomer (silicone)
- Backnut Clamp – Nylon
- Inner and Outer O-rings – Nitrile

Operating Temperature Range
- -50°C to +60°C

SUITABLE ARMORED/METAL CLAD CABLE TYPES

AC-  AC90, ACWU90, AC90-HL, ACWU90-HL, ACG90, ACGWU90
MC-  MCC, MCI, MCI-A, MC-HL
RA-  RA90, RA90-HL
TECK- TECK90, TECK90-HL

CATALOG NUMBER ENTRY THREAD SIZE (NPT) MAX NUMBER OF CORES THROUGH DIAMETER A ARMOR DIAMETER B DIAMETER C MAX LENGTH D NPT LENGTH E HEXAGON DIMENSIONS ACROSS FLATS ACROSS CORNERS

MC1B 1/2” 6 .47” (11.9) 0.43” (10.9) 0.55” (14.0) 0.51” (13.0) 0.63” (16.0) 1.7” (43) 0.83” (21.1) 1.06” (26.9) 1.1” (28.4)
MC1C 1/2” 10 0.56” (14.2) 0.52” (13.2) 0.74” (18.8) 0.60” (15.2) 0.82” (20.8) 2.3” (58) 0.83” (21.1) 1.42” (36) 1.50” (38.1)
MC2 3/4” 21 0.80” (20.3) 0.65” (16.5) 0.95” (24.1) 0.73” (18.5) 1.03” (26.2) 2.5” (64) 0.84” (21.3) 1.61” (41) 1.69” (42.9)
MC3 1” 42 1.04” (26.4) 0.89” (22.6) 1.23” (31.2) 0.97” (24.6) 1.31” (33.3) 2.6” (66) 1.03” (26.2) 1.97” (50) 2.13” (54.1)
MC4 1 1/4” 73 1.28” (32.5) 1.15” (29.2) 1.46” (37.2) 1.23” (31.2) 1.56” (39.6) 3.1” (79) 1.05” (26.7) 2.36” (60) 2.50” (63.5)
MC5 1 1/2” 80 1.66” (42.2) 1.39” (35.3) 1.62” (41.1) 1.41” (35.3) 1.78” (45.2) 4.5” (114.3) 1.07” (27.2) 2.95” (74.9) 3.06” (77.7)
MC6 2” 80 1.98” (50.3) 1.39” (35.3) 1.89” (48) 1.47” (37.3) 2.04” (51.8) 4.5” (114.3) 1.10” (27.9) 2.95” (74.9) 3.06” (77.7)
MC7 2 1/2” 100 2.46” (62.5) 1.85” (47) 2.36” (60) 1.93” (49) 2.51” (63.5) 4.7” (119.4) 1.62” (41.1) 3.54” (89.1) 3.65” (92.7)
MC8 3” 120 2.93” (74.4) 2.19” (56.5) 2.81” (71.4) 2.27” (57.7) 3.01” (76.5) 4.8” (121.9) 1.68” (42.7) 4.06” (103.1) 4.22” (107.2)
MC9 3 1/2” 120 3.40” (86.4) 2.69” (68.3) 3.28” (83.3) 2.77” (70.4) 3.46” (87.9) 4.8” (121.9) 1.73” (43.9) 4.53” (115.1) 4.69” (119.1)
MC10 4” 120 3.92” (99.6) 3.28” (83.3) 3.82” (97) 3.46” (87.9) 4.07” (103.4) 5.1” (129.5) 1.78” (45.2) 5.12” (130) 5.33” (135.4)

Cable armor diameter and cable jacket diameter refer to the dimensions across the crest.
† Where explosion proof/flameproof enclosures are being used the MC must be installed in conjunction with an approved sealing fitting. In Division 2 areas the MC can be fitted directly to an enclosure which has no source of ignition.
** FEATURES - SPECIFICATIONS**

**Applications**

Designed for use with jacketed interlocked, continuously corrugated and welded armor cable (all types shown in chart below). Install where it is essential to provide positive grounding to the cable with a complete gas block/explosion proof seal. Also for a Type 3, 4X connection.

**Features**

- 360° armor grounding spring is reusable.
- Robust threads and world class seal enables easy installation with minimal torque required.
- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the pro-ducts of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.

**Materials**

- Body – Copper free aluminum (less than 4/10 of 1%)
- Ground Spring – Stainless Steel
- Backnut Seal – Thermoplastic elastomer (silicone)
- Backnut Clamp – Nylon
- Inner and Outer O-rings – Nitrile

**Operating Temperature Range**

- -50°C to +60°C

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**FEATURES - SPECIFICATIONS**

**Applications**

Designed for use with jacketed interlocked, continuously corrugated and welded armor cable (all types shown in chart below). Install where it is essential to provide positive grounding to the cable with a complete gas block/explosion proof seal. Also for a Type 3, 4X connection.

**Features**

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- Robust threads and world class seal enables easy installation with minimal torque required.
- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the pro-ducts of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.

**Materials**

- Body – Copper free aluminum (less than 4/10 of 1%)
- Ground Spring – Stainless Steel
- Backnut Seal – Thermoplastic elastomer (silicone)
- Backnut Clamp – Nylon
- Inner and Outer O-rings – Nitrile

**Operating Temperature Range**

- -50°C to +60°C

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**FEATURES - SPECIFICATIONS**

**Applications**

Designed for use with jacketed interlocked, continuously corrugated and welded armor cable (all types shown in chart below). Install where it is essential to provide positive grounding to the cable with a complete gas block/explosion proof seal. Also for a Type 3, 4X connection.

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- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the pro-ducts of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.

**Materials**

- Body – Copper free aluminum (less than 4/10 of 1%)
- Ground Spring – Stainless Steel
- Backnut Seal – Thermoplastic elastomer (silicone)
- Backnut Clamp – Nylon
- Inner and Outer O-rings – Nitrile

**Operating Temperature Range**

- -50°C to +60°C
MCX 45°/90° SERIES

ALUMINUM CABLE CONNECTORS

FEATURES-SPECIFICATIONS

Applications:
Designed for use with jacketed interlock, continuously corrugated and welded armor cable where it is essential to prevent explosive vapors from passing through electrical devices. This series provides a 45 and 90 degree bend for the most compact space. It is rated for indoor and outdoor use.

Features:
- 360° armor grounding spring is reusable
- Provides a barrier seal between the individual insulated cores within the cable
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- Provides a cable retention and low smoke fume, zero halogen seal onto the cables outer sheath
- Copper-free aluminum construction for harsh, corrosive and hazardous areas
- Patent pending combination union elbow that allows proper 360° alignment where space is limited
- Compact 45° & 90° bends for optimized wiring configurations
- Armor is terminated prior to bend allowing for minimal bending radius
- Backnut is anodized RED to indicate HAZARDOUS area product

Materials:
- Body: Copper-free aluminum (less than 4/10 of 1%)
- Backnut Seal: Thermoplastic elastomer (silicone)
- Backnut Clamp: Nylon
- Inner and Outer O-rings: Nitrile

Operating Temperature:
- -50°C to +60°C

SUITABLE ARMORED/METAL CLAD CABLE TYPES

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>ENTRY THREAD SIZE (NPT)</th>
<th>BEND</th>
<th>MAX NUMBER OF CORES</th>
<th>THROUGH DIAMETER 'A'</th>
<th>ARMOR DIAMETER 'B'</th>
<th>DIAMETER 'C'</th>
<th>MIN.</th>
<th>MAX.</th>
<th>MAX LENGTH 'D'</th>
<th>MAX LENGTH 'E'</th>
<th>MAX LENGTH 'F'</th>
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<tbody>
<tr>
<td>MCX14C</td>
<td>1/2&quot;</td>
<td>45°</td>
<td>10</td>
<td>.48&quot; (12.2)</td>
<td>.52&quot; (13.2)</td>
<td>.74&quot; (18.8)</td>
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<td>3.25&quot; (82.6)</td>
<td>4.35&quot; (110.5)</td>
<td>2.05&quot; (52)</td>
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<tr>
<td>MCX24</td>
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<td>.71&quot; (18)</td>
<td>.65&quot; (16.5)</td>
<td>.95&quot; (24.1)</td>
<td>.73&quot; (18.5)</td>
<td>1.03&quot; (26.2)</td>
<td>3.43&quot; (87.1)</td>
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<tr>
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<td>90°</td>
<td>10</td>
<td>.48&quot; (12.2)</td>
<td>.52&quot; (13.2)</td>
<td>.74&quot; (18.8)</td>
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<td>.82&quot; (20.8)</td>
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<td>.73&quot; (18.5)</td>
<td>1.03&quot; (26.2)</td>
<td>2.61&quot; (66.3)</td>
<td>3.73&quot; (94.7)</td>
<td>3.60&quot; (91.4)</td>
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</table>
**FEATURES-SPECIFICATIONS**

**Applications:**
Designed for use with jacketed interlock, continuously corrugated and welded armor cable. Rated for indoor and outdoor use and allows for a 45 and 90 degree bend where space is limited.

**Features:**
- 360° armor grounding spring is reusable
- Provides sealing backnut plus inner O-ring seal to prevent moisture ingress to the cable armor and enclosure
- Copper-free aluminum construction for harsh, corrosive and hazardous duty
- Patent pending combination union elbow that allows proper 360° alignment where space is limited
- Compact 45° & 90° bends for optimized wiring configurations
- Armor is terminated prior to bend allowing for minimal bending radius

**Materials:**
- Body: Copper-free aluminum (less than 4/10 of 1%)  
- Backnut Seal: Thermoplastic elastomer (silicone)  
- Backnut Clamp: Nylon  
- Inner and Outer O-rings: Nitrile

**Operating Temperature:**
- -50°C to +60°C

**SUITSABLE ARMORED/METAL CLAD CABLE TYPES**

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</tr>
</tbody>
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Class II, Div. 1, Groups E, F, G  
Class III,  
Zone 20, IP66,  
Types 3, 4X  
Suitable for use in hazardous location application when installed according to NEC Articles 501.10
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