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SYSTEMS & CONNECTORS LLC

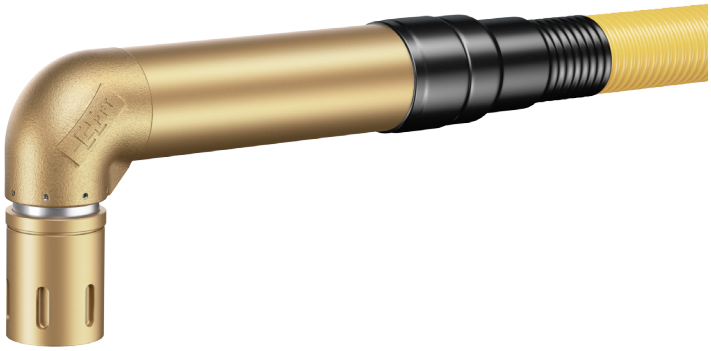
HOUSTON TEXAS USA
1-866-819-9100

Black Gator® Surface Connectors



Standard

The PFT standard surface connector is a compact, factory-assembled unit rated 5kV and, depending on cable size, can be rated up to 205A. This non-HazLoc system fits all PFT standard wellhead penetrators. The units come supplied with 30 feet of #1 AWG round cable with galvanized armor. Cable can also be supplied in custom lengths.



HazLoc Certified

Our HazLoc system is designed with additional threads between the male and female terminals. With more threads engaged between the penetrator and the surface connector coupling nut, a flame path restriction is created. This ensures that if an electrical arc or spark were to occur, any potential explosion would be constrained within the connector and allowed to cool.

PFT's HazLoc surface connectors, when rated above 2400V and up to 5kV, are supplied with shielded type MV-105 cable in accordance with 2005 NEC Article 310, paragraph 310.6. HazLoc surface connectors for use in applications below 2400V are supplied with non-shielded cable.

FEATURES

- Make & break connection
- Available in 90°, 45° and low profile designs
- Available in CSA, ATEX & IECEx certified versions for hazardous locations
- Available in various types and lengths of cable
- Compact factory-assembled unit
- Anti-corrosive and anti-galling finish

SPECS

- Each unit tested and factory certified to 24.5kV DC
- 5kV, up to #1/0 AWG shielded cable
- 205A (depending on cable size)
- HazLoc certified CSA, ATEX & IECEx, meets or exceeds IEEE standards

PEEK™ Insulator
PEEK™ is extremely well suited for all downhole applications. Depending on the material grade, PEEK™ can work continuously at 260° C (500° F). PEEK™, in comparison to molded rubber, does not take a "set" when put into compression nor is it subject to gas penetration. Combined with our oversized copper contacts, PFT Black Gator® connectors combine a longer run life with the ability to re-run components.

Connector Body Parts
Components are carbon steel and meet NACE MR0 175 specifications. The black finish provides maximum corrosion protection as well as lubrication for the threaded components. Stainless steel components are also available.

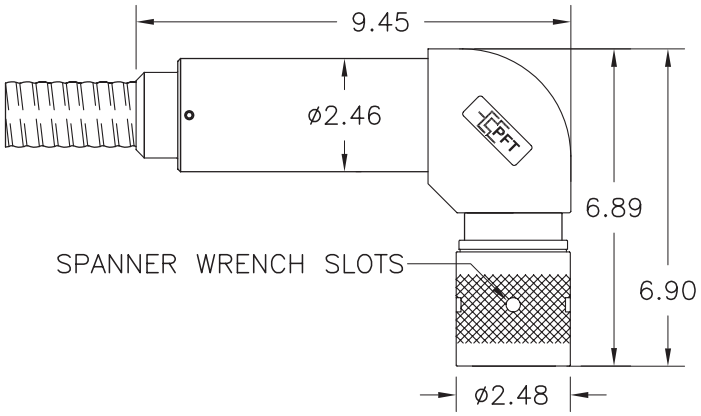
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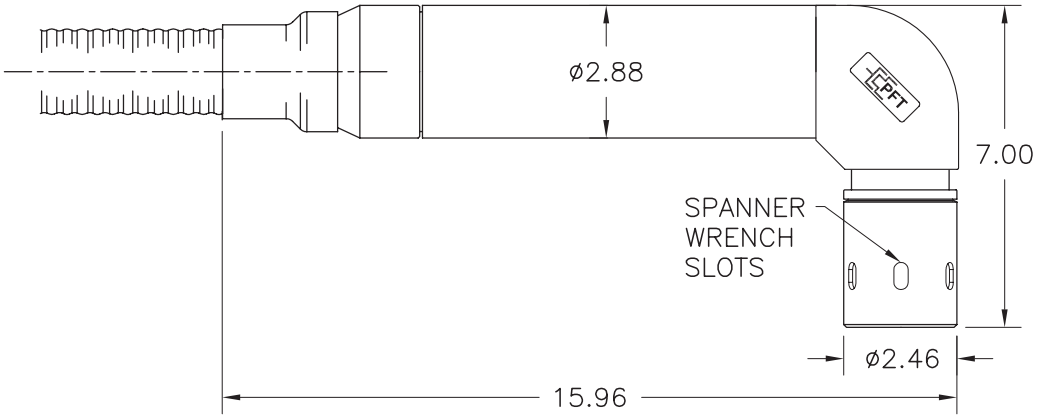
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Black Gator® Surface Connectors

PFT Standard 90º Surface Connector



PFT HazLoc 90º Surface Connector



All dimensions in inches

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Black Gator® Wellhead Penetrators

Part # EWP • EXP



The PFT standard line of wellhead penetrators follows traditional industry design profiles ranging from 12–31 inches long. All of these penetrators are rated to 5000 psig, 5kV, 205A, temperatures up to 450° F and incorporate PEEK™ component parts. Penetrators are available in standard or HazLoc-certified designs.

Penetrator profiles vary depending on the wellhead manufacturer and the amount of space available for the penetrator in a wellhead assembly. PFT has numerous penetrator designs and profiles in our inventory to accommodate nearly any wellhead in the industry.

If one of our existing penetrators does not meet your needs we will rapidly design one to your specific wellhead requirements.

FEATURES
Black anti-corrosive and anti-galling finish
Thermoplastic insulators and pressure block
Optional 2-turn Gator Loc™ connection and I-Seal™
Available in standard or CSA, ATEX & IECEx certified versions for hazardous locations
Available in slim-line O.D. as small as 1.20"

SPECS
5000 psi (proof tested to 13,500 psi)
5kV (proof tested to 24.5kV)
205A
Up to 450° F (230° C) depending on operating requirements and conditions
HazLoc certified CSA, ATEX & IECEx, meets or exceeds IEEE standards

PEEK™ Insulator
PEEK™ is extremely well suited for all downhole applications. Depending on the material grade, PEEK™ can work continuously at 260° C (500° F). PEEK™, in comparison to molded rubber, does not take a “set” when put into compression nor is it subject to gas penetration. Combined with our oversized copper contacts, PFT Black Gator® connectors combine a longer run life with the ability to re-run components.

Connector Body Parts
Components are carbon steel and meet NACE MR0175 specifications. The black finish provides maximum corrosion protection as well as lubrication for the threaded components. Stainless steel components are also available.

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Black Gator® Universal Connector

Part # PL-KIT • IL-KIT • HL-KIT



The PFT Universal Connector (also known as our Lower Connector) sets the benchmark for maximum flexibility. The connector can accommodate various downhole cable types and sizes (up to #1/0) by merely changing the cable seal, Gator Grrip®*, crimpless contacts and armor adapter. It can be supplied attached to flat or round cable as a pigtail or supplied as the most user-friendly field attachable connector on the market. In most circumstances this connector can be assembled on a cable in less than 30 minutes.

FEATURES
Flat or round cable
Flat armor adapter: no need to transition "flat to round"
Black anti-corrosive and anti-galling finish
No potting compound
Gator Grrip®* crimpless contacts
Floating seal and I-Seal™
Reduced assembly time

SPECS
5000 psi (proof tested to 13,500 psi)
5kV (proof tested to 24.5kV)
205A (depending on cable size)
Standard Universal Connector: up to 350° F (175° C) depending on operating requirements and conditions
High-temperature Universal Connector: up to 450° F (230° C) depending on operating requirements and conditions

PEEK™ Insulator
PEEK™ is extremely well suited for all downhole applications. Depending on the material grade, PEEK™ can work continuously at 260° C (500° F). PEEK™, in comparison to molded rubber, does not take a "set" when put into compression nor is it subject to gas penetration. Combined with our oversized copper contacts, PFT Black Gator® connectors combine a longer run life with the ability to re-run components.

Cable Seal Assembly
Our innovative "floating" cable seal design incorporates the latest technology in elastomers with the ability to adjust to thermal expansion and decompression. Cable seals are sized for specific cable types in sizes from #6AWG – 1/0 and available in material options to meet your operating conditions.

Connector Body Parts
Components are carbon steel and meet NACE MR0175 specifications. The black finish provides maximum corrosion protection as well as lubrication for the threaded components. Stainless steel components are also available.

Gator Grrip®*
This crimpless contact provides maximum conductivity with minimum heat buildup. Conductors do not have to be spread to accommodate a crimping tool, thus eliminating possible damage to the insulation or barrier. There is no "guessing" as to how much crimp force is required or how many crimps are needed. Additionally, as the contacts are not deformed (from the crimp), there are no ridges to sand nor do the conductors need straightening.

Armor Adapter
Supplied for various sizes of flat or round cable, PFT's new flat armor adapter eliminates the need (and time) to reconfigure flat cables into a round configuration for use with a field-attachable connector.

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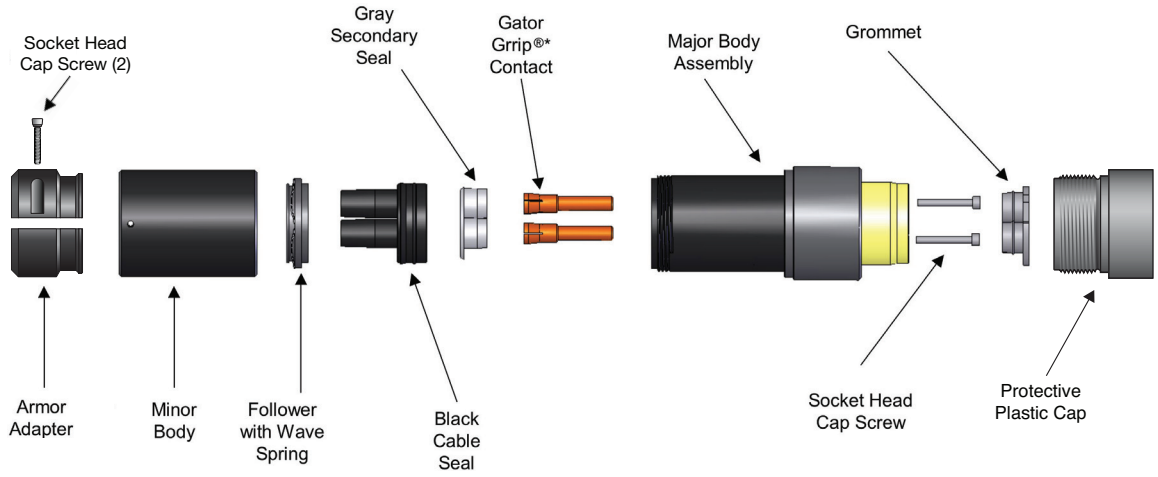
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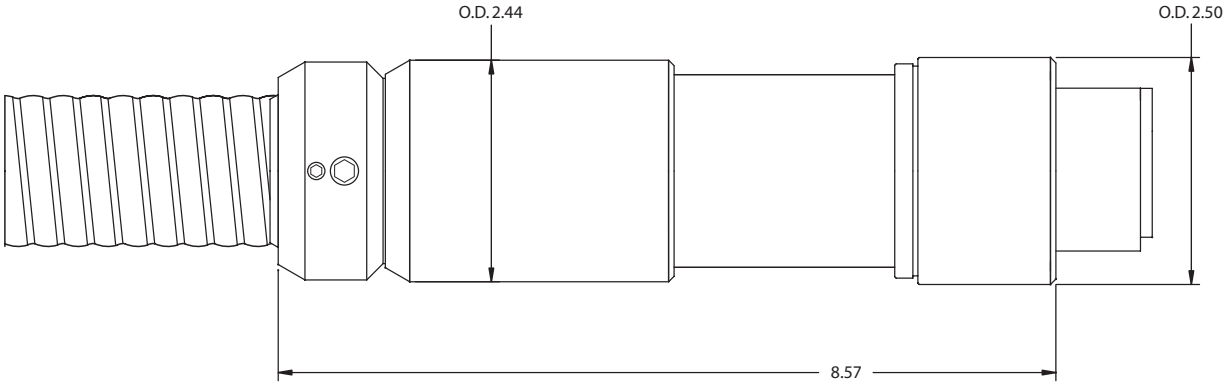
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Black Gator® Universal Connector

Part # PL-KIT • IL-KIT • HL-KIT





All dimensions in inches

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Cayman™ Fail-Safe* Wellhead Penetrator

Innovative design prevents emissions and maintains well control in the event of a downhole tubing failure



PFT's field-attachable Cayman™ Fail-Safe Penetrator represents an advance in safety with benefits to both field operators and the environment. The penetrator is equipped with a mechanical means of retention within the tubing hanger, as well as a mechanism to allow the ESP cable to pull away under a prescribed load. In the event of a downhole failure of the production tubing, seal barriers remain in place and well control is maintained.

Comparable systems currently in use offer no means of retention. In the event of a tubing failure the entire penetrator will be pulled from the tubing hanger, leaving an open pathway for wellbore fluids to escape to the atmosphere. Such circumstances may jeopardize public safety, as well as damage the surrounding environment.

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Cayman™ Fail-Safe* Wellhead Penetrator

Innovative design prevents emissions and maintains well control in the event of a downhole tubing failure



FEATURES

- Field-attachable and rebuildable system
- Black anti-corrosive/anti-galling finish
- Floating seal
- Dual opposing cable seals for mirrored protection
- Redundant pressure barriers
- Compatible with BOP test running tools

SPECS

- Compatible with various ESP cable sizes
- 5,000 psi (proof tested to 7,500 psi)
- 5kV (proof tested to 20kV)
- 180A (depending on cable size)
- Up to 350° F (175° C) depending on operating requirements and conditions
- Haz-Loc surface LB configurations available
- 1-3/4" slim profile (can be configured for other profiles as well)

PEEK™ Insulator
PEEK™ is well suited for all downhole applications. Depending on the material grade, PEEK™ can work continuously at 260° C (500° F). PEEK™, in comparison to molded rubber, does not take a "set" when put into compression nor is it subject to gas penetration.

Cable Seal Assembly
Our innovative "floating" cable seal design incorporates the latest technology in elastomers with the ability to adjust to thermal expansion and decompression.

Connector Body Parts
Components are carbon steel and meet NACE MR0175 specifications. The black finish provides maximum corrosion protection as well as lubrication for the threaded components.

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