



Sunkye International Co., Ltd

Oil & Gas Energy connectors' offering - Sunkye Oil Gas & Petroleum Series Products

Sunkye is one of several leading connectivity companies that provides oil connectors/drill connector/downhole [connector solutions](#) for the [oil and gas industry](#), including pressure, application, temperature, and force interconnect solutions. These interconnect solutions are used to monitor well sites and collect a various range of data including pressure, temperature, flow, vibration, position, temperature and, using either pressure or float switches, level measurements.

Electrical Connector System performance for the Oil and Gas & Petroleum system



Glass Sintered Sealing Terminal Perfect Air leak Rate in the downhole and offshore solutions



PEEK Connector High Temperature & Pressured qualified products apply for the different systems



[HTHP Connector](#)

Apply for harshness environment with various alloy.





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Mechanical FEED THRU Terminal

Apply for different interconnectivity solutions.

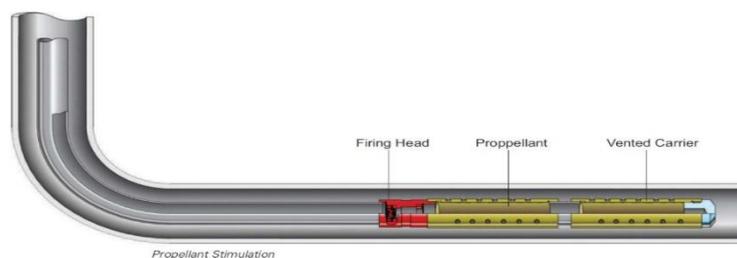
Firing Head Connector

Apply for Perforating Gun Equipment in Drilling system for Downhole and Offshore.



PRESSURE FIRING HEAD CONNECTOR SPECIFICATIONS

Firing Head Connector Part Number	SK19.SYD.001	SK19.SYD.002
O.D. [mm]	28±0.01	28±0.05
Pin connector Length mm	65+0.1	41±0.05
Max. 100 Hour Temperature Rating[°C]	200	200
Min. Required Pinning Pressure (psi)[MPa]	1,800psi/12MPa	1,800psi/12MPa
Max. Operating Pressure (psi)[MPa]	20,000psi/138MPa	20,000psi/138MPa
Air Leakage Rate	$1 \times 10^{-3} \text{ Pa} \cdot \text{CM}^3 / \text{s}$	$1 \times 10^{-3} \text{ Pa} \cdot \text{CM}^3 / \text{s}$
Shell Material	X-750	X-750
Contact Material	Alloy 52 Gold Plating	Alloy 52 Gold Plating
Rated Current per Pin	5A	5A
Dielectric Strength	$\geq 5000 \text{M}\Omega$	$\geq 5000 \text{M}\Omega$
Contact Resistance	$\leq 10 \text{m}\Omega$	$\leq 10 \text{m}\Omega$
Life Time	1000times	1000times





PEEK Connector

Materials Compare Table

Material	Tensile Strength (Mpa)	Compressive strength (Mpa)	Elastic modulus (Gpa)	Fracture toughness (Mpa.m)
Cortical bone	50-151	100-230	7-30	2-12
Alumina	270-500	3000-5000	380-410	5-6
Bioglass	42	500	35	2
Hydroxyapatites	40-300	500-1000	80-120	0.6-1
PEEK	98-105	125-130	4-4.1	2-8
GF30-PEEK	90-157	215	6.2-8.1	0.87
CF30-PEEK	130-214	239	10-24	1.2
Stainless Steel	465-950	1000	200	55-95
Titanium	345	250-600	102.7	58-66
Ti-alloys	596-1100	450-1850	55-114	40-92

PEEK Material Performance

Melts at a relatively high temperature (343 ° C / 649.4 ° F), benefits of physical performance with Pressure in 30,000PSI /207Mpa. Air leak: helium leak test $\leq 1 \times 10^{-3}$ Pa.cm³ /s.

PEEK Full Identification

Polyether ether ketone (PEEK) is a colorless organic thermoplastic polymer in the polyaryletherketone (PAEK) family, used in engineering applications.

What's PEEK

PEEK is a thermoplastic semi crystalline with excellent mechanical and chemical resistance properties that are retained to high temperatures. PEEK has a glass transition temperature of around 143 ° C (289 ° F) and melts around 343 ° C (662 ° F). That's why PEEK seals and manifolds are commonly used in fluid applications.

PEEK SOLUTIONS

Currently mainly used in aerospace, automotive industry, electronics & electrical and medical machinery.

Electrical Connector

Locked Connectors

Experienced design and applications engineering staff works directly with customers from concept to delivery.



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Hermetically Sealed Connectors/ Water Resistant Connectors

These connectors are purpose-built to be fully functioning underwater and withstand pressure up to certain depths.

ESD Shielded Connectors

Electrostatic discharge can damage wiring and components. ESD shielded connectors provide additional protection against this.

EMI / RFI Filtering

Additional features built into the housing to protect the connectors from electromagnetic interference(EMI) or radio frequency interference(RFI), which can affect circuits carrying electrical signals.

Moisture/Oil Resistant Connectors

These connectors are purpose-built to be fully functioning underwater and withstand pressure up to certain depths.

More information please check at

<https://www.sunkye.com/industry-solution/sunkye-firing-head-connector-for-perforating-gun-equipment> and email at sales@sunkye.com.

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