PRODUCTS

GRE (Glass Reinforced Epoxy)
CS-MS
55 & 66 SERIES
MINI-CON
HUMMER
GLOBE-CON
ALL-WET
WET-CON
SEA-MATE
OPTI-CON
PRODUCTS

- GRE (Glass Reinforced Epoxy)
- HUMMER
- GLOBE-CON
- SEA-MATE
- CM2000
- HYDRALIGHT

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PRODUCTS

- G3
- HP/HT
- HP/HT LINEAR SPLICE CHAMBER
PRODUCTS

- MSS (Metal Shell Series)
- MSS-API
- CM2000
- FIELD INSTALLABLE
- RUFF-NEK
- SUPERBOMB PROOF
GRE (Glass Reinforced Epoxy)

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- 4 connector sizes
- Up to 36 contacts including coax
- Optic & oil filled available
- Up to 20,000 psig (approx. 45,000ft / 13,700m)
- Up to 2,800 VDC
- Up to 200 amps
- Glass Reinforced Epoxy, Stainless Steel, Delrin® (DuPont trademark for Acetal Resin)
CS-MS

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- 2 shell sizes (J & K)
- Up to 10 contacts
- Up to 7,000 psig (approx. 15,700ft / 5,180m) mated or open face
- Insulation resistance >1 Gohms @ 500 VDC
- Dielectric with standing voltage <0.5 mA @ 1,000 VAC
- Up to 13 amps
- Optic & oil filled available
- Aluminum, Glass Reinforced Epoxy
- Stainless Steel, Copper Alloy also available
55 & 66 SERIES

- 5 shell sizes (15, 16, 20, 24, 32)
- Up to 24 contacts
- Up to 10,000 psig mated / unmated (approx. 22,500ft / 7,000m)
- 600 VDC
- 5 to 18 amps (dependent on contact size and cable)
- Oil filled options available
- Stainless Steel, Neoprene
- Non metallic PEEK version available
MINI-CON

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- 17 shell sizes
- Up to 203 contacts including coax
- Up to 16,000 psig (approx. 36,000ft / 10,500m)
- Up to 5,000 VDC
- Up to 23 amps dependent on cable
- Glass sealed inserts available
- Optics & hybrid available
- Oil filled available
- Stainless Steel, Glass Reinforced Epoxy, Copper Alloy
HUMMER

3 shell sizes (G, K, L)
Up to 28 contacts
Up to 10,000 psig mated (approx. 22,500ft / 7,000m). Open face by special order
300 VDC
Up to 2.5 amps
Copper Alloy, Glass Reinforced Epoxy, Neoprene Rubber, Delrin® (DuPont trademark for Acetal Resin)
Rubber jacketed cable as standard
- 2 shell sizes (G, K) & currently 3 different contact configurations up to 12#28 contacts
- Up to 12 contacts
- Up to 10,000 psig mated (approx. 22,500ft / 7,000m)
- 300 VDC
- Up to 2.5 amps
- Wet-mate version available
- Materials suitable for caustic environments
- Stainless Steel, Glass Reinforced Epoxy, Neoprene Rubber, Copper Alloy
- Rubber jacketed cable as standard
- Suitable for use in high vibration applications
- Round, split and flat configurations
- Up to 42 contact
- Flat ALL-WET water blocked version available
- Up to 20,000 psig (approx. 45,000ft / 13,700m) for round configurations
- Up to 10,000 psig (approx. 22,500ft / 7,000m) for split & flat configurations
- Up to 600 VDC (with standard cable)
- Up to 50 amps
- Copper Alloy, Neoprene Rubber, Delrin® (DuPont trademark for Acetal Resin)
- SO cable as standard
- Round, low profile and split configurations
- Up to 16 contacts
- Water blocked / single pin / metal shell / high power options available
- Up to 20,000 psig (approx. 45,000ft / 13,700m) for WET-CON
- Up to 10,000 psig (approx. 22,500ft / 7,000m) for Micro and Split versions
- Up to 600 VDC with standard cable
- Up to 19 amps
- Copper Alloy, Neoprene rubber, Delrin® (DuPont trademark for Acetal Resin), SO cable as standard, Rubber jacketed cable as standard for Micro and Split connectors
SEA-MATE

- Second generation U-MATE
- 4 Shell sizes (G, K, L, M)
- Up to 37 contacts
- Oil filled option available
- ROV mateable version available
- Up to 7,500 psig mated & open face (approx. 16,900ft / 5,200m)
- Up to 600 VDC
- Up to 10 amps / 50 amps (for new high power version)
- Stainless Steel, Glass Reinforced Epoxy, Hypalon Rubber, Copper Alloy
5 Shell sizes (F=1 Way, G=4 Way, M=8 Way, Q=12 Way, T=20 Way)
- 1, 4, 8, 12 & 20 channels in any electrical or optical configuration, single or multi-mode
- Single way right angle version available
- Up to 7,500 psig (approx. 16,900ft / 5,200m) dependent on cable, shell material & configuration
- 600 VDC
- 4 amps
- Oil filled hose as standard with molded unit as a cost option
- Stainless Steel
GRE (Glass Reinforced Epoxy)

- 4 connector sizes
- Up to 36 contacts including coax
- Optic & oil filled available
- Up to 20,000 psig (approx. 45,000ft / 13,700m)
- Up to 2,800 VDC
- Up to 200 amps
- Glass Reinforced Epoxy, Stainless Steel, Delrin® (DuPont trademark for Acetal Resin)
HUMMER

- 3 shell sizes (G, K, L)
- Up to 28 contacts
- Up to 10,000 psig mated (approx. 22,500ft / 7,000m). Open face by special order
- 300 VDC
- Up to 2.5 amps
- Copper Alloy, Glass Reinforced Epoxy, Neoprene Rubber, Delrin® (DuPont trademark for Acetal Resin)
- Rubber jacketed cable as standard
GLOBE-CON

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- 2 shell sizes (G, K) & currently 3 different contact configurations up to 12#28 contacts
- Up to 12 contacts
- Up to 10,000 psig mated (approx. 22,500ft / 7,000m)
- 300 VDC
- Up to 2.5 amps
- Wet-mate version available
- Materials suitable for caustic environments
- Stainless Steel, Glass Reinforced Epoxy, Neoprene Rubber, Copper Alloy
- Rubber jacketed cable as standard
- Suitable for use in high vibration applications
SEA-MATE

- Second generation U-MATE
- 4 Shell sizes (G, K, L, M)
- Up to 37 contacts
- Oil filled option available
- ROV mateable version available
- Up to 7,500 psig mated & open face (approx. 16,900ft / 5,200m)
- Up to 600 VDC
- Up to 10 amps / 50 amps (for new high power version)
- Stainless Steel, Glass Reinforced Epoxy, Hypalon Rubber, Copper Alloy
CM2000

- Simple & unique design features combining superior electrical isolation ensuring high connector reliability
- Stab, diver and ROV configurations
- Individual modular pin & socket contacts
- Oil filled & pressure balanced socket contacts
- No single point failures
- Redundant: O-Rings, Seals, Bladders, Bladder closures
- Standard 4, 7 & 12 contacts
- Other configurations up to 19 contacts
- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Up to 3.3kVAC
- Up to 100 amps / 250 amps 3.3kVAC versions
- Titanium, 17-4 PH, Nitronic 50, Inconel®. Others available on request
HYDRAIGHT

- 2nd generation, field proven, underwater mateable connector
- 8-channel optic only / UPC & APC versions available
- 8-channel hybrid connector (4 electro / 4 optic) & 48 channel optic
- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Oil filled & pressure balanced
- Qualified for 7,000m
- Average single-mode insertion loss better than 0.2dB (0.5dB max)
- Average single mode back reflection of -50dB over mated cycle life (min -30dB)
- Titanium
- Design life of 25 years
MINI-CON

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- 17 shell sizes
- Up to 203 contacts including coax
- Up to 16,000 psig (approx. 36,000ft / 10,500m)
- Up to 5,000 VDC
- Up to 23 amps dependent on cable
- Glass sealed inserts available
- Optics & hybrid available
- Oil filled available
- Stainless Steel, Glass Reinforced Epoxy, Copper Alloy
ALL-WET

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• Round, split and flat configurations
• Up to 42 contact
• Flat ALL-WET water blocked version available
• Up to 20,000 psig (approx. 45,000ft / 13,700m) for round configurations
• Up to 10,000 psig (approx. 22,500ft / 7,000m) for split & flat configurations
• Up to 600 VDC (with standard cable)
• Up to 50 amps
• Copper Alloy, Neoprene Rubber, Delrin® (DuPont trademark for Acetal Resin)
• SO cable as standard
WET-CON

- Round, low profile and split configurations
- Up to 16 contacts
- Water blocked / single pin / metal shell / high power options available
- Up to 20,000 psig (approx. 45,000ft / 13,700m) for WET-CON
- Up to 10,000 psig (approx. 22,500ft / 7,000m) for Micro and Split versions
- Up to 600 VDC with standard cable
- Up to 19 amps
- Copper Alloy, Neoprene rubber, Delrin® (Dupont trademark for Acetal Resin), SO cable as standard, Rubber jacketed cable as standard for Micro and Split connectors
SEA-MATE

- Second generation U-MATE
- 4 Shell sizes (G, K, L, M)
- Up to 37 contacts
- Oil filled option available
- ROV mateable version available
- Up to 7,500 psig mated & open face (approx. 16,900ft / 5,200m)
- Up to 600 VDC
- Up to 10 amps / 50 amps (for new high power version)
- Stainless Steel, Glass Reinforced Epoxy, Hypalon Rubber, Copper Alloy
5 Shell sizes (F=1 Way, G=4 Way, M=8 Way, Q=12 Way, T=20 Way)

· 1, 4, 8, 12 & 20 channels in any electrical or optical configuration, single or multi-mode

· Single way right angle version available

· Up to 7,500 psig (approx. 16,900ft / 5,200m) dependent on cable, shell material & configuration

· 600 VDC

· 4 amps

· Oil filled hose as standard with molded unit as a cost option

· Stainless Steel
CM2000

- Simple & unique design features combining superior electrical isolation ensuring high connector reliability
- Stab, diver and ROV configurations
- Individual modular pin & socket contacts
- Oil filled & pressure balanced socket contacts
- No single point failures
- Redundant: O-Rings, Seals, Bladders, Bladder closures
- Standard 4, 7 & 12 contacts
- Other configurations up to 19 contacts
- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Up to 3.3kVAC
- Up to 100 amps / 250 amps 3.3kVAC versions
- Titanium, 17-4 PH, Nitronic 50, Inconel®. Others available on request.
HYDRAILIGHT

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- 2nd generation, field proven, underwater mateable connector
- 8-channel optic only / UPC & APC versions available
- 8-channel hybrid connector (4 electro / 4 optic) & 48 channel optic
- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Oil filled & pressure balanced
- Qualified for 7,000m
- Average single-mode insertion loss better than 0.2dB (0.5dB max)
- Average single mode back reflection of -50dB over mated cycle life (min -30dB)
- Titanium
- Design life of 25 years
**G3**

- 3rd generation connector utilizing HYDRALIGHT technology
- Very small form factor, with low loss optical performance
- Matched pairs not required
- Internal pressure compensated
- Suitable for stab, diver and ROV operations
- 6-channel optic (single-mode, multi-mode)
- Up to 15,000 psig (approx. 35,000ft / 10,000m)
- Operating temperature 150 C (302 F)
- Few internal moving parts
- Simplicity of operation
- Patented ‘Joined Chamber’ concept
- Stainless Steel, Titanium
Downhole

HP/HT

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- Optical, electrical and hybrid (electro / optic) versions available:
  2-channel optical only version
  2-channel electrical only version
  4-channel hybrid (2 electro / 2 optic)
- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Up to 600 VAC
- Up to 2.5 amps
- Less than 1 inch in diameter
- Field installable termination
- Maximum optical attenuation: 0.3dB
- Maximum optical back reflection: -50dB
- Inconel 625
HP/HT LINEAR SPLICE CHAMBER

- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Operating temperature 125°C (257°F)
- Storage temperature -40°C to 85°C (-40°F to 185°F)
- Body material: Inconel 625
- Sealing shell: Metal to metal with dual o-ring back-up
- Maximum tensile loading through assembly: 60lbs
MINI-CON

- 17 shell sizes
- Up to 203 contacts including coax
- Up to 16,000 psig (approx. 36,000ft / 10,500m)
- Up to 5,000 VDC
- Up to 23 amps dependent on cable
- Glass sealed inserts available
- Optics & hybrid available
- Oil filled available
- Stainless Steel, Glass Reinforced Epoxy, Copper Alloy
OPTI-CON

- 5 Shell sizes (F=1 Way, G=4 Way, M=8 Way, Q=12 Way, T=20 Way)
- 1, 4, 8, 12 & 20 channels in any electrical or optical configuration, single or multi-mode
- Single way right angle version available
- Up to 7,500 psig (approx. 16,900 ft / 5,200 m) dependent on cable, shell material and configuration
- 600 VDC
- 4 amps
- Oil filled hose as standard with molded unit as a cost option
- Stainless Steel
CM2000

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- Simple & unique design features combining superior electrical isolation ensuring high connector reliability
- Stab, diver and ROV configurations
- Individual modular pin & socket contacts
- Oil filled & pressure balanced socket contacts
- No single point failures
- Redundant: O-Rings, Seals, Bladders, Bladder closures
- Standard 4, 7 & 12 contacts
- Other configurations up to 19 contacts
- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Up to 3.3kVAC
- Up to 100 amps / 250 amps 3.3kVAC versions
- Titanium, 17-4 PH, Nitronic 50, Inconel®. Others available on request
HYDRAILIGHT

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- 2nd generation, field proven, underwater mateable connector
- 8-channel optic only / UPC & APC versions available
- 8-channel hybrid connector (4 electro / 4 optic) & 48 channel optic
- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Oil filled & pressure balanced
- Qualified for 7,000m
- Average single-mode insertion loss better than 0.2dB (0.5dB max)
- Average single-mode back reflection of -50dB over mated cycle life (min -30dB)
- Titanium
- Design life of 25 years
PBOF SPLICE CHAMBER

- Internal pressure compensation for Splice Chambers featuring less than 6 meters of Pressure Balanced Oil Filled (PBOF) hose
- Internal pre-charge pressure for Splice Chambers featuring more than 6 meters of PBOF hose
- Modular design allows for multiple PBOF hose exits or cable termination
- Anti-snag Collars available for lower profile
- Working pressure: 300 bar, 4351 psi
- Titanium Grade 5
- Internal optical fiber splice and service loop
SUTA

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- Integral Fiber Management System
- High Pressure Fiber Optic Feed through Penetrations
- Dual cone, mechanical armor plug
- Overall boot sealed
- Depth rating: Full Ocean Depth
- Oil filled and pressure compensated
- Compatible with embedded & non-embedded MUX cables
- Field installable (no compounds)
- Options for multiple cable entry / multiple connections
JUMPER & CABLE SYSTEMS

Precise PBOF Hose

- Temperature and pressure compensated
- Design life >25 years in operation subsea
- Single or double o-ring sealing
- Integrated longitudinal strain relief break >20,000N
- Available in 8mm, 13mm or 20mm configurations
- Full torsion flexibility
- Titanium GR2 & 316L SST as options
- Working temperature -5 to +40°C
- Armour: Kevlar, Polyester
MSS (Metal Shell Series)

- 8 shell sizes (G, K, L, M, O, P, Q, S)
- Up to 156 contacts including coax
- Glass sealed inserts available
- Optics & hybrid available
- Positive keying
- PBOF available
- Up to 20,000 psig (approx. 45,000ft / 13,700m)
- Up to 600 VDC standard (higher ratings available)
- Up to 300 amps (dependent on cable)
- Stainless Steel, Glass Reinforced Epoxy, Copper Alloy
MSS-API

- Bulkhead connectors designed to be compliant with API 6A and API 16D. Bulkhead also available with reverse pressure design
- Cabled connectors and assemblies designed to be compliant with API 6A, API 16D and API 17E
- Open face pressure rating on bulkhead connectors
- Redundant sealing at all pressure barrier interfaces
- Test ports for infield testing between dual seals
- Boot sealing in cabled connectors and assemblies in event of flooded cable conditions
- Electrical, Optical and Hybrid connectors configurable in all 8 shell sizes
- Pressure Testing Mated and Open-face at FAT (Factory Acceptance Testing)
- Custom interfaces available
CM2000

- Simple & unique design features combining superior electrical isolation ensuring high connector reliability
- Stab, diver and ROV configurations
- Individual modular pin & socket contacts
- Oil filled & pressure balanced socket contacts
- No single point failures
- Redundant: O-Rings, Seals, Bladders, Bladder closures
- Standard 4, 7 & 12 contacts
- Other configurations up to 19 contacts
- Up to 10,000 psig (approx. 22,500ft / 7,000m)
- Up to 3.3kVAC
- Up to 100 amps / 250 amps 3.3kVAC versions
- Titanium, 17-4 PH, Nitronic 50, Inconel®. Others available on request
SEA CON®'s has an extensive range of Field Installable Products including:

- Positively Pressure Compensated
- Pressure Compensated
- 1 Atmosphere Molded
- Separated Strength Termination
- Testable Bulkhead Terminations

Designed in accordance with API requirements
RUFF-NEK

- Overall Length: 24.2"
- Overall Diameter: 4.75"
- Megger Test Pin allows testing for water-flooding while mated
- Test port for mating o-rings
- Depth Rating: 7,500 psi (15,000ft.)
- Modular cable terminations and Field Installable (no compounds)
- Pressure Compensated Chamber
SUPERBOMB PROOF

- Overall length: 28.2"
- Overall Diameter: 8"
- Test port for mated connector condition
- Operational Depth Rating: 5,300 psi (12,000ft)
- Modular cable terminations and Field Installable (no compounds)
- Dual Pressure Compensated Chambers
- Rear Chamber: Up to approx. 60 psi
- Front Chamber: Up to approx. 35 psi
- Integral Cable Armor Termination