LAUNCHER PLATFORM

- HIGH-SPEED ASSEMBLIES
- LOW OUTGASSING COMPONENTS
- LIGHT WEIGHT SOLUTIONS
- QUICK CONNECTION
- SECURE CONNECTION
- PAYLOAD TO INSIDE THE LAUNCHER EQUIPMENT (LEVEL 3 TO LEVEL 6)

1. PROPULSION SYSTEM
   - Extreme Temperature Connectors
   - Hermetic Connectors
   - Temperature Sensors

2. BOOSTER AND INTERSTAGE INTERFACE
   - Push-Pull Connectors
   - Deadface Connectors
   - Quick Disconnection

3. EQUIPMENT CONTROL
   - High Speed Connectors
   - Cable Assemblies
   - Light Weight Solutions

4. SATELLITE INTERSTAGE
   - Cable Assemblies
   - Circular Connectors
   - Sensors

5. LAUNCHER FAIRING
   - Quick Disconnection
   - Cable Assemblies
   - Push-Pull Connectors
   - Sensors

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**PROPULSION SUBSYSTEM**

- **EXTREME TEMPERATURES**
- **HIGH VIBRATION**
- **RUGGEDIZED SOLUTIONS**
- **HERMETICS SOLUTION**

1. **CIRCULAR CONNECTORS**
   - DEUTSCH DBAS Series Connector
   - ESA Approved
   - RSM Series Connectors
   - D38999 Space Grade Connectors

2. **DEUTSCH HERMETIC CONNECTORS**
   - Maintains a Pressure Differential Between the Two Sections
   - Gastight Glass-to-metal Sealing
   - Withstand High Pressures, Extreme Temperatures and High Vibration
   - Wide Range of Connector Types and Styles

3. **DEUTSCH 951 CONNECTORS**
   - Rugged Bayonet Connector
   - Meet the requirements of UTE C 03.522, Model H9301B, LN29500 and MIL-C-26482 Series I Specifications

4. **TEMPERATURE SENSORS**
   - Application: Rocket Batteries
   - Technology: Mica Wire-Wound Platinum
   - Operating Temperature: -70°C to +200°C

5. **DCS SERIES CONNECTORS**
   - Miniature Crew Coupling Connector
   - Designed in accordance to MIL-DTL-38999-S2
   - Scoop Prof

6. **POLAMCO BACKSHELLS**
   - EMI Protection
   - Circular & Rectangular Backshells
BOOSTER & INTERSTAGE INTERFACE

- QUICK DISCONNECTION
- DEADFACE CONNECTOR
- LIGHT WEIGHT
- HERMETICS FEEDTHROUGH SOLUTION

1. QUICK DISCONNECTION
2. DEADFACE CONNECTOR
3. LIGHT WEIGHT
4. HERMETICS FEEDTHROUGH SOLUTION

**PUSH-PULL CIRCULAR CONNECTORS**
- DEUTSCH DBAS Series Connector
- Feedthrough Solution
- ESA Approved
- Cryogenic Application

**PYROTECHNIC CONNECTORS**
- Rugged Bayonet Connector
- Meet the requirements of UTE C 93422, Model HE301B, LN29500 and MIL-C-26482 Series I Specifications

**SPECIAL CONNECTOR**
- Based on Technical Specification

**POSITION SENSOR**
- Booster Actuator

**ACCELEROMETER**
- Structural Vibration Monitoring

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EQUIPMENT CONTROL

- HIGH SPEED
- LIGHT WEIGHT SOLUTIONS
- HIGH RELIABILITY
- LEVEL 3 TO LEVEL 6
- CUSTOM PRODUCT / UMBILICAL CONNECTORS

1. Raychem Spec 55 Signal and Power Space Wire
   - Operating Temperature Range: -65°C to +200°C
   - ETFE Insulation Material
   - NASA Compliant
   - ESA or Mil-Spec Versions Available
   - Ultra Low Fluoride Versions Available

2. Circular Connectors
   - Deutsch DBAS 7 & 9 Series Connector
   - ESA Approved
   - Cryogenic Application

3. Polamco Backshells
   - EMI Protection
   - Circular Backshells

4. High-Temperature Tubing
   - +200°C and +150°C Alternatives
   - NASA Spec
   - RT-555 High Temperature Heat Shrink Tape

5. Space VPX
   - Multigig RT 2/R Connectors
   - Ultra-rugged, lightweight, high-speed backplane connector
   - Compliant to VITA 46 Standards

6. Nanominiature Connectors
   - Rectangular, Coax, and Sealed Circular Configurations
   - Excellent Shock and Vibration Resistance
   - Wide Temperature Range (-200°C to +200°C)

7. Microminiature Connectors
   - High Shock and Vibration Ratings
   - Temperature range (-200°C to +200°C)
   - Lightweight
   - Low Outgassing
   - NASA Spec
   - Mil-Spec Versions Available

8. Rectangular Connectors
   - EN4165
   - Wide Range of Modules for Signal and Power
   - Excellent EMI Performance
   - Robust Composite Shell Saves Weight

9. Cable Management Solutions
   - Quick Install Cable Clamps
   - Lightweight Adhesive Brackets

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SATELLITE INTERSTAGE

- EMI RESISTANCE
- LIGHT WEIGHT SOLUTIONS
- HIGH RELIABILITY
- RACK & PANEL SOLUTION

1. CIRCULAR CONNECTORS
   - DEUTSCH DBAS 7 & 9 Series Connector
   - Rack & Panel Solution
   - ESA Approved

2. CIRCULAR BACK SHELLS
   - Raychem HexaShield Backshell
   - Simple Installation and Re-entry

3. CIRCULAR CONNECTORS
   - D38999 Space Grade Connectors

4. SENSOR SOLUTIONS ACCELEROMETER
   - Motion Control
   - Noise monitoring
   - Available in Custom and Standard Packages

5. ESA SPACE WIRE
   - Operating Temperature Range: -100°C to +200°C
   - Space Saving Thin Single Wall Construction
   - Radiation Cross-Linked Modified ETFE Insulation Material
   - Low Outgassing

6. KILOVAC HIGH VOLTAGE RELAYS
   - High Reliability
   - Many Configurations and Form Factors Available
   - Operating Temperature Range -55°C to +125°C

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LAUNCHER FAIRING

- LIGHT WEIGHT
- THERMAL SHOCK
- QUICK DISCONNECTION

1. RAYCHEM SPEC 55 SIGNAL AND POWER SPACE WIRE
   - Operating Temperature Range: -65°C to +200°C
   - ETFE Insulation Material
   - NASA Compliant
   - ESA or Mil-Spec Versions Available
   - Ultra Low Fluoride Versions Available

2. CIRCULAR CONNECTORS
   - DEUTSCH DBAS 7 & 9 Series Connector
   - ESA Approved

3. PYROTECHNIC CONNECTORS
   - Rugged Bayonet Connector
   - Meet the Requirements of UTE C 93422, Model HE301B, LN29500 and MIL-C-26482 Series 1 Specifications

4. HIGH-TEMPERATURE TUBING
   - +200°C and +150°C Alternatives
   - NASA Spec
   - RT-55S High Temperature Heat Shrink Tape

5. ALPEN HIGH-PERFORMANCE COAXIAL CABLE
   - Very Low Insertion Loss
   - Very High Velocity of Signal Propagation: Add up to 83+%
   - DC to 65 GHz
   - Very Low Weight

6. SENSOR SOLUTIONS
   - Accelerometer
   - Motion Control
   - Noise Monitoring
   - Available in Custom and Standard Packages

7. DCS SERIES CONNECTORS
   - Miniature Crew Coupling Connector
   - Designed in Accordance to MIL-DTL-38999-S2
   - Scoop Prof

8. KILOVAC HIGH VOLTAGE RELAYS
   - High Reliability
   - Many Configurations and Form Factors Available
   - Operating Temperature Range -55°C to +125°C

9. SOLDERSLEEVE DEVICE
   - Low Outgassing
   - Strain Relief with Ratings up to +150°C
   - Tensile Strength up to 15 Pounds
   - Splicing Wires and Shield Termination

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