LEO SATELLITE SUBSYSTEMS

- HIGH-SPEED ASSEMBLIES
- LOW OUTGASSING COMPONENTS
- LIGHT WEIGHT SOLUTIONS

1. PROPULSION
   - Ruggedized Solutions
   - Temperature and Pressure Sensors

2. STRUCTURE
   - Cable Management Structure Integration
   - Vibration Sensors

3. DATA AND PAYLOAD
   - PCB Connectors
   - Cable Assemblies
   - Sensors
   - Fibre Optics

4. SYSTEM INTERCONNECT
   - Cable Assemblies
   - D-Shaped Connectors
   - Fibre Optics
   - Cable Management

5. COMMUNICATIONS
   - RF Connectors and Assemblies
   - Cable Management Solutions

6. SOLAR PANELS
   - High Temperature and Radiation-Hardened (Rad-Hard) Cable Assemblies
   - Relays and Contactors

This diagram is intended to depict products generally provided by TE Connectivity and does not represent products provided to any particular satellite.
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**PROPULSION SUBSYSTEM**

- **HIGH VIBRATION**
- **RUGGEDIZED SOLUTIONS**

1. **RAYCHEM SPEC S5 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. **MICRODOT CONNECTORS**
   - D-Subminiature, Micro-D and Ultra-Miniature Connectors
   - Mil-Spec Version Available

3. **HIGH-TEMPERATURE TUBING**
   - +200°C and +150°C Alternatives
   - NASA Spec
   - RT-555 High Temperature Heat Shrink Tape
   - RT-220 Heat Shrink Tubing
   - Raychem RNF-150 Heat Shrink Tubing

4. **TEMPERATURE SENSORS**
   - Low Temperature Satellite Applications
   - Temperature Monitoring
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SATELLITE STRUCTURE

- CABLE MANAGEMENT INTEGRATION
- QUICK-INSTALL
- ULTRA LIGHT WEIGHT

1. P-CLAMPS
   - Quick Installation Cable Management Solutions

2. ADHESIVE BRACKETS
   - Lightweight custom bracket design

3. VIBRATION SENSORS
   - Accelerometers
   - Satellite Structure Monitoring
DATA AND PAYLOAD

- HIGH SPEED
- LIGHT WEIGHT SOLUTIONS
- HIGH RELIABILITY
- MINIATURIZED

MULTIGIG RT 2-R CONNECTOR
- PCB Connector
- High Density
- High Speed

SPACE VPX SOLUTIONS
- VITA 78
- VITA 67 RF Interface
- VITA 66 Optical Modules

STRADA WHISPER CONNECTORS & CABLES
- High Density
- High Vibration Resistance

TERMINALS & SPLICES
- Solstrand Terminals and Splices
- COPALUM Terminals and Splices

FIBRE OPTIC ASSEMBLIES
- Optical Flex Circuits
- High Density
- Ultra Light Weight
- EMI Resistance

RESISTORS
- Surface Mount
- Through-hole
- Chassis Panel Mount

MICRO-D NANOMINIATURE CONNECTORS
- D-Sub, Micro-D and Nano-D
- NASA Spec
- Mil-Spec Available

GOLD CHIP THERMISTORS
- Satellite Camera & Telecom Systems

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SYSTEM INTERCONNECT

- EMI RESISTANCE
- LIGHT WEIGHT SOLUTIONS
- HIGH RELIABILITY

1. RECTANGULAR CONNECTORS
   - D-Subminiature Connectors
   - Micro-D and Nano-D
   - NASA Spec
   - MTC Connectors

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

3. RAYCHEM SPEC 55 LOW FLUORIDE ETFE SPACE WIRE
   - NASA Compliant
   - Mil-Spec Approved
   - Low Outgassing

4. RF CONNECTORS & RF ASSEMBLIES
   - SMA, SMP, BNC connectors
   - High Frequency (Ka-Band)
   - High Flexibility
   - High Temperatures

5. SOLDERSLEEVE DEVICE FOR SPACE
   - Strain Relief with Ratings up to +150°C
   - Tensile Strength up to 15 Pounds
   - One-Step Shield means Easy Inspection

6. 369 SPACE GRADE CONNECTORS
   - EMI Protection
   - Circular Backshells

7. VACUUM EQUIPMENT
   - DM feedthrough 15084

8. BACKSHELLS
   - Small Form Factor with simple push pull mating
   - Lightweight at 2.9 g per mated pair
   - Integrated tie down reduces installation complexity
COMMUNICATIONS

- RF ASSEMBLIES
- EMI RESISTANCE
- EXTREME TEMPERATURES

1. RF ASSEMBLIES
   - Cheminax RF Cable
   - SMA, SMP, BNC Connectors and Assemblies

2. BACKSHELLS
   - EMI Protection
   - Circular Backshells

3. RAYCHEM INSTALITE LIGHTWEIGHT BRAID
   - Up to 50% Lighter than Traditional Copper Braids
   - EMI Protection
   - Radiation Protection

4. SENSORS
   - MEAS Space Qualified Sensors
   - ESA, NASA Approved
   - Radial, Bead and Custom Packages Types

5. FIBRE OPTIC ASSEMBLIES
   - Optical Flex Circuits
   - High Density
   - Ultra Light Weight
   - EMI Resistance

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**SOLAR PANELS**

- LIGHT WEIGHT
- THERMAL SHOCK
- RADIATION-HARDENED (RAD-HARD)

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**FLEXIBLE POWER CABLES**
- Low Outgassing
- Small Bend Radius
- Abrasion Resistant

**RECTANGULAR AND FLAT CONNECTORS**
- D-Sub Connectors
- DEUTSCH D-Paso Series Connectors
- Lightweight
- MTC Connectors

**RELAYS AND CONTACTORS**
- HARTMAN N200 and N400 Series Contactors
- CII Hermetic Relays
- NASA Qualified MA and MAD Family

**TEMPERATURE SENSORS**
- Satellite Thermal Control Management
- Solar Array Panel Temperature
- Battery Temperature Management
- ESA Qualified
- NTC Thermistor, NASA Qualified

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