



# GORE™ Space Cables and Assemblies

Power Distribution Cables

## Improve Power Delivery Among Electrical Systems

Reliable power is essential for a successful mission. The cables that deliver the power are just as critical as the power-generating systems. GORE™ Power Distribution Cables are the most reliable, and their robust design and copper conductors allow for easy installation in tight spaces. Approved to ESA/SCC 3901/017 specifications, GORE™ Power Distribution Cables ensure that consistent power is delivered safely and reliably.

### THE SCIENCE BEHIND THE CABLES

The key to the outstanding performance of GORE™ Power Distribution Cables is the proprietary material used in the cable insulation — expanded polytetrafluoroethylene (ePTFE). Gore has created a hybrid insulation that makes the cable more flexible and easier to strip. These cables provide the best ATOX resistance available on the market today, and they function reliably in temperatures ranging from -200°C to +200°C. These features make it easier to install the cables without compromising the quality of the power distribution.

### TYPICAL USES

- Power supply for subsystems
- Spacecraft harnesses
- Manned/unmanned space missions
- Transport vehicles

### SAMPLE APPLICATIONS

- Globalstar
- XMM
- ENVISAT
- Integral
- Galileo

*Galileo Image: ESA*



## Realize the Benefits of GORE™ Power Distribution Cables

### KEY FEATURES

- ESA/SCC 3901/017-qualified
- Nickel-plated copper conductors
- Different gauge sizes for a variety of applications
- Outstanding ATOX resistance

### KEY BENEFITS

- Excellent performance from proprietary hybrid insulation and outstanding ATOX resistance
- Improved installation with easier crimping and extended bending radius
- Valued reliability delivered from an ESA-qualified and a DIN EN ISO 9001:2000-certified manufacturing facility
- Superior sales and technical support from Gore's worldwide engineering team



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## TECHNICAL SPECIFICATIONS

All GORE™ Power Distribution Cables meet the following technical specifications. See the ordering information for the technical data specific to each cable.

Property	Value
Operating temperature range	-200°C to +200°C
Maximum temperature for short periods	260°C
Outer jacket	PFA
Conductor construction	Concentric nickel-plated copper
Operating voltage	600 V RMS
Bending radius	10 x outer diameter (repeated) or 6 x outer diameter (once)

## ORDERING INFORMATION

Part Number	Gauge Size (AWG)	Outer Diameter (mm)	Weight (g/m)
3901-017-01	0	11.8	542
3901-017-02	4	7.7	232
3901-017-03	8	5.3	98

## GORE EXPERIENCE AND EXPERTISE

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