

GORE® Space Cables
For Traditional Space Applications

A photograph of the International Space Station (ISS) in orbit above Earth. The station's complex structure, including its large solar panel arrays and various modules, is clearly visible against the blackness of space. The Earth's blue horizon and white cloud-covered surface are seen below the station. A large red diagonal shape is overlaid on the bottom left of the image, containing the text 'PROVEN RELIABLE IN CRITICAL SYSTEMS'.

PROVEN RELIABLE
IN CRITICAL
SYSTEMS

Together, improving life



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Ensure reliable performance for mission-critical systems

Cables connected to critical systems are routinely exposed to the most severe operating conditions imaginable in space such as extreme temperatures and atomic oxygen. Total reliability is crucial because of the stress that cables are always under with no easy way to make repairs. Therefore, cables must supply power and transfer data at all times without ever failing to avoid serious consequences to the mission and compromising the safety of astronauts.

Quality Signals with Integrity

GORE® Space Cables ensure power is delivered and signals are transmitted consistently, reliably, and safely for the duration of every mission. They are proven to improve signal speed and integrity among electrical systems no matter the circumstances in space. Our cables improve system performance ensuring constant communications from space to Earth.

Specialized Fluoropolymer Technology

The key to the outstanding performance of GORE® Space Cables is the proprietary material used in the insulation — expanded polytetrafluoroethylene (ePTFE). They resist low-to-high temperatures, harsh chemicals, abrasion, cut-through, material creep, atomic oxygen, and more. The smaller, lighter weight construction of these cables also reduces the total launch mass of the spacecraft, saving valuable weight for other critical subsystems. Our collection of space cables can be tightly bent and flexed for simpler and faster installation in confined areas.

Program Heritage

For decades, Gore has provided reliable solutions in hundreds of global spaceflight programs with a 100% failure-free flight record. We work closely with major space organizations such as the ESA (European Space Agency) and NASA (National Aeronautics and Space Administration) to deliver valued reliability from an ESA-qualified and ISO 9001:2000-certified manufacturing facility.

Our products have been used in many missions — including the historic Apollo 11 mission to the moon. Also, other iconic programs such as the International Space Station, Envisat, Space Shuttle Program, Sentinel, Hubble Space Telescope, and more.



Benefits

- Maintain reliable power/signals in demanding environments such as extreme temperatures
- Specialized materials withstand cut-through, abrasion, creep, chemicals, atomic oxygen, and more
- Easier routing in confined areas due to greater flexibility and tighter bend radius
- Reduce total launch mass with small, lightweight cable constructions
- Valued reliability delivered by ESA-qualified cables according to ESCC specifications
- Decades of 100% failure-free flight record in hundreds of global spaceflight programs

GORE® Space Cables

For Traditional Space Applications

Type SPC (ESCC 3901/009)



Program Heritage

- Alphas

Typical Applications

- DC power distribution
- Low-frequency signals
- Optical instruments

Engineered for applications in geostationary earth orbit (GEO), Type SPC provides reliable signal integrity for improved system performance during critical missions (Table 1). These cables have been used successfully aboard the Alphas family of communications satellites.

Table 1: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	Polyimide
Insulation Material	Expanded PTFE / Polyimide
Conductor	Silver-Plated Copper or Copper Alloy, True Concentric
Temperature Range (°C)	- 200 to +200

Ordering Information

GORE® Space Cables, Type SPC for GEO applications are available in the following variants (Table 2). Specify **ESCC3901009XXB** with the **XX** being the appropriate variant number. Visit gore.com/cable-distributors for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

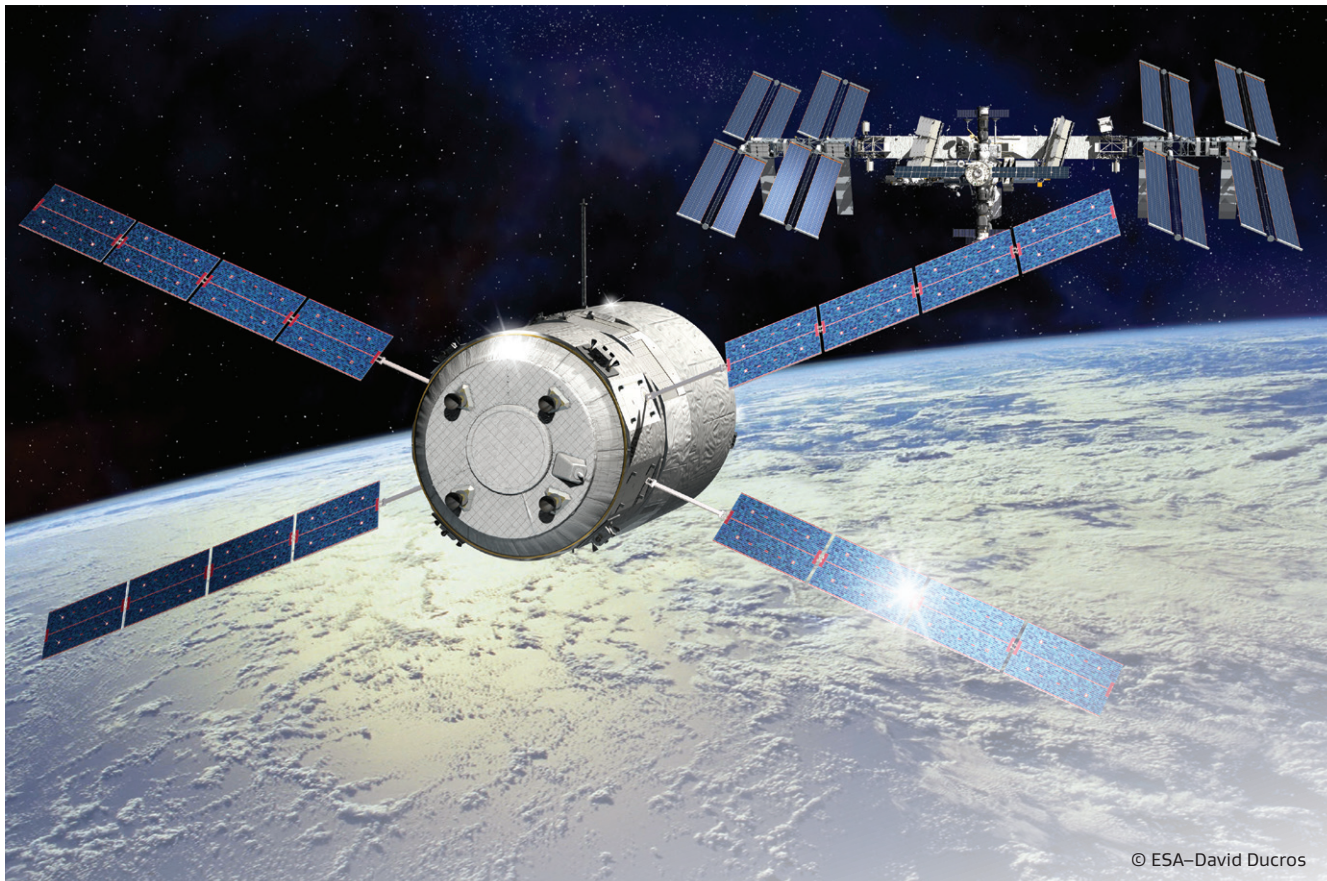
Table 2: Cable Variants

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
01	No	1	28	7 × 0.127	0.40	0.09	253.0	—	—	0.86	1.49
02	No	1	26	19 × 0.102	0.54	0.15	147.0	—	—	0.99	2.29
03	No	1	24	19 × 0.127	0.67	0.24	94.0	—	—	1.09	3.10
04	No	1	22	19 × 0.160	0.84	0.38	49.5	—	—	1.26	4.69
05	No	1	20	19 × 0.203	1.05	0.62	30.2	—	—	1.48	7.06
06	No	1	16	19 × 0.287	1.48	1.23	15.0	—	—	1.92	13.39
07	No	1	12	37 × 0.320	2.29	2.88	6.3	—	—	2.77	31.31
08	No	2	28	7 × 0.127	0.40	0.09	258.0	—	0.86	1.72	3.15
09	No	2	26	19 × 0.102	0.54	0.15	150.0	—	0.99	1.92	4.70
10	No	2	24	19 × 0.127	0.67	0.24	96.0	—	1.09	2.18	6.85
11	No	2	22	19 × 0.160	0.84	0.38	50.5	—	1.26	2.52	10.25
12	No	2	20	19 × 0.203	1.05	0.62	30.5	—	1.48	2.95	16.00
13	No	2	16	19 × 0.287	1.48	1.23	15.3	—	1.92	3.80	29.00
14	No	2	12	37 × 0.320	2.29	2.88	6.4	—	2.77	5.48	68.50
15	No	3	26	19 × 0.102	0.54	0.15	150.0	—	0.99	2.07	6.95
16	No	3	24	19 × 0.127	0.67	0.24	96.0	—	1.09	2.35	9.97
17	No	3	22	19 × 0.160	0.84	0.38	50.5	—	1.26	2.73	14.98
18	No	3	20	19 × 0.203	1.05	0.62	30.5	—	1.48	3.18	23.20
19	No	3	16	19 × 0.287	1.48	1.23	15.3	—	1.92	4.17	44.20
20	No	3	12	37 × 0.320	2.29	2.88	6.4	—	2.77	5.92	101.50
21	No	4	26	19 × 0.102	0.54	0.15	151.0	—	0.99	2.32	9.35
22	No	4	24	19 × 0.127	0.67	0.24	97.0	—	1.09	2.62	13.30
23	No	4	22	19 × 0.160	0.84	0.38	51.0	—	1.26	3.04	19.97
24	No	4	20	19 × 0.203	1.05	0.62	31.1	—	1.48	3.54	30.25
25	No	4	16	19 × 0.287	1.48	1.23	15.4	—	1.92	4.56	57.00
26	No	4	12	37 × 0.320	2.29	2.88	6.5	—	2.77	6.58	135.50
27	No	5	26	19 × 0.102	0.54	0.15	152.0	—	0.99	2.62	12.63
28	No	5	24	19 × 0.127	0.67	0.24	97.5	—	1.09	2.93	18.25
29	No	5	22	19 × 0.160	0.84	0.38	51.3	—	1.26	3.41	27.25
30	No	5	20	19 × 0.203	1.05	0.62	31.3	—	1.48	3.96	41.60
31	No	7	26	19 × 0.102	0.54	0.15	153.0	—	0.99	2.94	16.20
32	No	7	24	19 × 0.127	0.67	0.24	98.0	—	1.09	3.30	23.25
33	No	7	22	19 × 0.160	0.84	0.38	51.5	—	1.26	3.81	36.00
34	No	7	20	19 × 0.203	1.05	0.62	31.4	—	1.48	4.47	53.00
35	Yes	1	28	7 × 0.127	0.40	0.09	253.0	0.102	—	1.62	6.81

GORE® Space Cables, Type SPC (ESCC 3901/009)

Table 2: Cable Variants (continued)

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
36	Yes	1	26	19 × 0.102	0.54	0.15	147.0	0.102	—	1.74	7.82
37	Yes	1	24	19 × 0.127	0.67	0.24	94.0	0.102	—	1.87	9.21
38	Yes	2	28	7 × 0.127	0.40	0.09	258.0	0.102	0.86	2.40	11.18
39	Yes	2	26	19 × 0.102	0.54	0.15	150.0	0.102	0.99	2.64	13.30
40	Yes	2	24	19 × 0.127	0.67	0.24	96.0	0.102	1.09	2.94	16.11
41	Yes	2	22	19 × 0.160	0.84	0.38	50.5	0.102	1.26	3.42	24.50
42	Yes	2	20	19 × 0.203	1.05	0.62	30.5	0.102	1.48	3.87	33.70
43	Yes	2	16	19 × 0.287	1.48	1.23	15.3	0.127	1.92	4.75	49.75
44	Yes	2	12	37 × 0.320	2.29	2.88	6.4	0.127	2.77	6.45	96.26
45	Yes	3	26	19 × 0.102	0.54	0.15	150.0	0.102	0.99	2.75	16.01
46	Yes	3	24	19 × 0.127	0.67	0.24	96.0	0.102	1.09	3.07	19.94
47	Yes	3	22	19 × 0.160	0.84	0.38	50.5	0.102	1.26	3.60	32.00
48	Yes	3	20	19 × 0.203	1.05	0.62	30.5	0.127	1.48	4.08	41.00
49	Yes	3	16	19 × 0.287	1.48	1.23	15.3	0.127	1.92	5.00	68.30
50	Yes	3	12	37 × 0.320	2.29	2.88	6.4	0.127	2.77	6.75	132.04
51	Yes	4	26	19 × 0.102	0.54	0.15	151.0	0.102	0.99	3.00	19.12
52	Yes	4	24	19 × 0.127	0.67	0.24	97.0	0.102	1.09	3.36	24.40
53	Yes	4	22	19 × 0.160	0.84	0.38	51.0	0.127	1.26	3.90	36.89
54	Yes	4	20	19 × 0.203	1.05	0.62	31.1	0.127	1.48	4.45	53.50
55	Yes	4	16	19 × 0.287	1.48	1.23	15.4	0.127	1.92	5.40	83.00
56	Yes	4	12	37 × 0.320	2.29	2.88	6.5	0.127	2.77	7.52	169.13
57	Yes	5	26	19 × 0.102	0.54	0.15	152	0.102	0.99	3.26	22.80
58	Yes	5	24	19 × 0.127	0.67	0.24	97.5	0.102	1.09	3.69	30.20
59	Yes	5	22	19 × 0.160	0.84	0.38	51.3	0.127	1.26	4.21	47.30
60	Yes	5	20	19 × 0.203	1.05	0.62	31.3	0.127	1.48	4.73	66.80
61	Yes	7	26	19 × 0.102	0.54	0.15	153.0	0.102	0.99	3.60	27.85
62	Yes	7	24	19 × 0.127	0.67	0.24	98.0	0.127	1.09	3.96	41.25
63	Yes	7	22	19 × 0.160	0.84	0.38	51.5	0.127	1.26	4.45	58.00
64	Yes	7	20	19 × 0.203	1.05	0.62	31.4	0.127	1.48	5.35	80.00
65	Double Shield	2	20	19 × 0.203	1.05	0.62	30.5	0.102/ 0.102	1.48	4.26	42.00
66	Double Shield	4	20	19 × 0.203	1.05	0.62	31.1	0.127/ 0.127	1.48	5.08	70.00



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Gore's Type SPC provides reliable
signal integrity for improved system
performance during critical missions.

GORE® Space Cables

For Traditional Space Applications

Type SPP (ESCC 3901/017)



Program Heritage

- Envisat
- Galileo
- Globalstar
- Integral
- XMM

Typical Applications

- High-current power supply
- Manned/Unmanned space missions
- Spacecraft harnesses
- Transfer vehicles

With excellent ATOX resistance, Type SPP operates with complete reliability in extremely low to high temperatures, ensuring consistent power is delivered safely and reliably (Table 3). These cables are on the ESA qualified parts list (QPL) for use in high-current applications.

Table 3: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	PFA
Insulation Material	Expanded PTFE / Polyimide
Conductor	Nickel-Plated Copper, True Concentric
Temperature Range (°C)	- 200 to +200

Ordering Information

GORE® Space Cables, Type SPP for high-current applications are available in the following variants (Table 4). Specify **ESCC3901017XXB** with the **XX** being the appropriate variant number. Visit [gore.com/cable-distributors](https://www.gore.com/cable-distributors) for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

Gore's Type SPP provides excellent ATOX resistance and operate with complete reliability in unmanned spacecraft such as the Galileo.

Table 4: Cable Variants

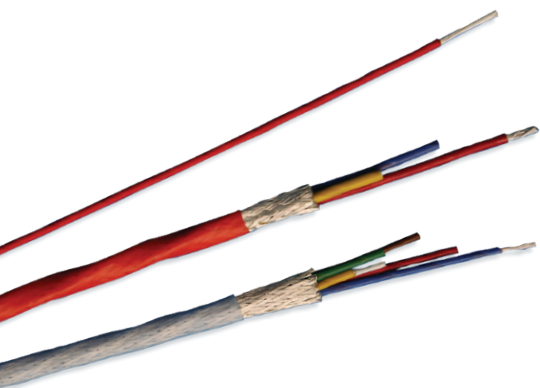
Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
01	No	1	0	19 x 55 x 0.254	0.40	0.09	253.0	—	—	0.86	1.49
02	No	1	4	19 x 7 x 0.454	0.54	0.15	147.0	—	—	0.99	2.29
03	No	1	8	19 x 7 x 0.287	0.67	0.24	94.0	—	—	1.09	3.10



GORE® Space Cables

For Traditional Space Applications

Type SPM (ESCC 3901/018)



Chemically inert and thermally resistant, Type SPM withstands atomic oxygen commonly found in low earth orbit (LEO) applications (Table 5). They are particularly well-suited for manned space missions and transfer vehicles, helping integration teams to stay on schedule and avoid downtime. These cables are also on the ESA qualified parts list (QPL).

Table 5: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	PFA
Insulation Material	PTFE / Expanded PTFE / Polyimide
Conductor	Silver-Plated Copper or Copper Alloy, True Concentric
Temperature Range (°C)	- 200 to +200

Program Heritage

- Automated Transfer Vehicle (ATV)
- Columbus Laboratory Module of ISS
- European Robotic Arm (ERA)
- Intermediate Experimental Vehicle (IXV)
- International Space Station (ISS)

Typical Applications

- DC power distribution
- Low-frequency signals
- Optical instruments
- Microgravity experiments

Ordering Information

GORE® Space Cables, Type SPM for LEO applications are available in the following variants (Table 6). Specify **ESCC3901018XXB** with the **XX** being the appropriate variant number. Visit gore.com/cable-distributors for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

Table 6: Cable Variants

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
01	No	1	32	7 × 0.080	0.25	0.034	636.0	—	—	0.75	1.05
02	No	1	30	7 × 0.102	0.32	0.057	375.0	—	—	0.82	1.35
03	No	1	28	7 × 0.126	0.39	0.089	239.0	—	—	0.90	1.81
04	No	1	26	7 × 0.160	0.49	0.140	150.0	—	—	1.03	2.68
05	No	1	24	19 × 0.126	0.65	0.240	88.9	—	—	1.18	3.78
06	No	1	22	19 × 0.160	0.82	0.380	50.0	—	—	1.35	5.47
07	No	1	20	19 × 0.202	1.03	0.610	30.8	—	—	1.58	8.17
08	No	1	16	19 × 0.288	1.45	1.230	15.3	—	—	2.12	15.80
09	No	1	12	37 × 0.320	2.26	2.880	6.5	—	—	2.97	35.60
10	No	2	32	7 × 0.080	0.25	0.034	649.0	—	0.75	1.50	2.26
11	No	2	30	7 × 0.102	0.32	0.057	383.0	—	0.82	1.64	2.96
12	No	2	28	7 × 0.126	0.39	0.089	244.0	—	0.90	1.80	3.87
13	No	2	26	7 × 0.160	0.49	0.140	152.0	—	1.03	2.05	5.52
14	No	2	24	19 × 0.126	0.65	0.240	90.7	—	1.18	2.36	8.09
15	No	2	22	19 × 0.160	0.82	0.380	51.0	—	1.35	2.70	11.70
16	No	2	20	19 × 0.202	1.03	0.610	31.4	—	1.58	3.16	17.50
17	No	2	16	19 × 0.288	1.45	1.230	15.6	—	2.12	4.24	33.80
18	No	2	12	37 × 0.320	2.26	2.880	6.6	—	2.97	5.94	76.20
19	No	3	26	7 × 0.160	0.49	0.140	154.0	—	1.03	2.21	8.29
20	No	3	24	19 × 0.126	0.65	0.240	91.6	—	1.18	2.54	12.10
21	No	3	22	19 × 0.160	0.82	0.380	51.5	—	1.35	2.90	17.60
22	No	3	20	19 × 0.202	1.03	0.610	31.7	—	1.58	3.40	26.20
23	No	3	16	19 × 0.288	1.45	1.230	15.8	—	2.12	4.56	50.70
24	No	3	12	37 × 0.320	2.26	2.880	6.7	—	2.97	6.39	114.00
25	No	4	26	7 × 0.160	0.49	0.140	154.0	—	1.03	2.47	11.00
26	No	4	24	19 × 0.126	0.65	0.240	91.6	—	1.18	2.83	16.20
27	No	4	22	19 × 0.160	0.82	0.380	51.5	—	1.35	3.24	23.40
28	No	4	20	19 × 0.202	1.03	0.610	31.7	—	1.58	3.79	35.00
29	No	4	16	19 × 0.288	1.45	1.230	15.8	—	2.12	5.09	67.60
30	No	4	12	37 × 0.320	2.26	2.880	6.7	—	2.97	7.13	153.00
31	No	5	26	7 × 0.160	0.49	0.140	156.0	—	1.03	2.78	14.20
32	No	5	24	19 × 0.126	0.65	0.240	92.5	—	1.18	3.19	20.70
33	No	5	22	19 × 0.160	0.82	0.380	52.0	—	1.35	3.65	29.90
34	No	5	20	19 × 0.202	1.03	0.610	32.0	—	1.58	4.27	44.50
35	No	7	26	7 × 0.160	0.49	0.140	156.0	—	1.03	3.08	19.40

GORE® Space Cables, Type SPM (ESCC 3901/018)

Table 6: Cable Variants (continued)

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
36	No	7	24	19 × 0.126	0.65	0.240	92.5	—	1.18	3.54	28.30
37	No	7	22	19 × 0.160	0.82	0.380	52.0	—	1.35	4.05	39.10
38	No	7	20	19 × 0.202	1.03	0.610	32.0	—	1.58	4.74	61.30
39	Yes	1	32	7 × 0.080	0.25	0.034	636.0	0.064	0.75	1.37	4.40
40	Yes	1	30	7 × 0.102	0.32	0.057	375.0	0.064	0.82	1.44	5.33
41	Yes	1	28	7 × 0.126	0.39	0.089	239.0	0.064	0.90	1.60	6.52
42	Yes	1	26	7 × 0.160	0.49	0.140	150.0	0.079	1.03	1.71	8.25
43	Yes	1	24	19 × 0.126	0.65	0.240	88.9	0.079	1.18	1.86	9.62
44	Yes	1	22	19 × 0.160	0.82	0.380	50.0	0.079	1.35	2.04	12.30
45	Yes	1	20	19 × 0.202	1.03	0.610	30.8	0.079	1.58	2.27	15.30
46	Yes	1	16	19 × 0.288	1.45	1.230	15.3	0.079	2.12	2.83	25.80
47	Yes	1	12	37 × 0.320	2.26	2.880	6.5	0.079	2.97	3.69	48.50
48	Yes	2	32	7 × 0.080	0.25	0.034	649.0	0.079	0.75	2.20	9.31
49	Yes	2	30	7 × 0.102	0.32	0.057	383.0	0.079	0.82	2.35	11.00
50	Yes	2	28	7 × 0.126	0.39	0.089	244.0	0.079	0.90	2.51	12.20
51	Yes	2	26	7 × 0.160	0.49	0.140	152.0	0.079	1.03	2.74	15.40
52	Yes	2	24	19 × 0.126	0.65	0.240	90.7	0.079	1.18	3.06	18.40
53	Yes	2	22	19 × 0.160	0.82	0.380	51.0	0.079	1.35	3.41	24.20
54	Yes	2	20	19 × 0.202	1.03	0.610	31.4	0.079	1.58	3.87	30.50
55	Yes	2	16	19 × 0.288	1.45	1.230	15.6	0.079	2.12	5.21	55.40
56	Yes	2	12	37 × 0.320	2.26	2.880	6.6	0.102	2.97	7.03	111.00
57	Yes	3	32	7 × 0.080	0.25	0.034	652.0	0.079	0.75	2.32	10.60
58	Yes	3	30	7 × 0.102	0.32	0.057	385.0	0.079	0.82	2.48	12.70
59	Yes	3	28	7 × 0.126	0.39	0.089	245.0	0.079	0.90	2.66	14.30
60	Yes	3	26	7 × 0.160	0.49	0.140	152.0	0.079	1.03	2.90	18.50
61	Yes	3	24	19 × 0.126	0.65	0.240	90.7	0.079	1.18	3.23	24.50
62	Yes	3	22	19 × 0.160	0.82	0.380	51.0	0.079	1.35	3.62	30.30
63	Yes	3	20	19 × 0.202	1.03	0.610	31.4	0.079	1.58	4.11	41.40
64	Yes	3	16	19 × 0.288	1.45	1.230	15.6	0.102	2.12	5.53	73.00
65	Yes	3	12	37 × 0.320	2.26	2.880	6.6	0.102	2.97	7.49	151.00

Table 6: Cable Variants (continued)

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
66	Yes	4	32	7 × 0.080	0.25	0.034	655.0	0.079	0.75	2.59	12.90
67	Yes	4	30	7 × 0.102	0.32	0.057	386.0	0.079	0.82	2.77	15.90
68	Yes	4	28	7 × 0.126	0.39	0.089	246.0	0.079	0.90	2.98	18.00
69	Yes	4	26	7 × 0.160	0.49	0.140	154.0	0.079	1.03	3.27	23.50
70	Yes	4	24	19 × 0.126	0.65	0.240	91.6	0.079	1.18	3.66	29.00
71	Yes	4	22	19 × 0.160	0.82	0.380	51.5	0.079	1.35	4.10	38.60
72	Yes	4	20	19 × 0.202	1.03	0.610	31.7	0.079	1.58	4.68	52.70
73	Yes	4	16	19 × 0.288	1.45	1.230	15.8	0.102	2.12	6.39	101.00
74	Yes	4	12	37 × 0.320	2.26	2.880	6.7	0.102	2.97	8.65	191.00
75	Yes	5	32	7 × 0.080	0.25	0.034	661.0	0.079	0.75	2.74	15.60
76	Yes	5	30	7 × 0.102	0.32	0.057	390.0	0.079	0.82	2.95	17.80
77	Yes	5	28	7 × 0.126	0.39	0.089	249.0	0.079	0.90	3.16	20.40
78	Yes	5	26	7 × 0.160	0.49	0.140	156.0	0.079	1.03	3.47	26.90
79	Yes	5	24	19 × 0.126	0.65	0.240	92.5	0.079	1.18	3.89	33.80
80	Yes	5	22	19 × 0.160	0.82	0.380	52.0	0.079	1.35	4.38	45.40
81	Yes	5	20	19 × 0.202	1.03	0.610	32.0	0.079	1.58	5.00	62.70
82	Yes	7	32	7 × 0.080	0.25	0.034	661.0	0.079	0.75	2.98	18.10
83	Yes	7	30	7 × 0.102	0.32	0.057	390.0	0.079	0.82	3.19	20.80
84	Yes	7	28	7 × 0.126	0.39	0.089	249.0	0.079	0.90	3.44	26.10
85	Yes	7	26	7 × 0.160	0.49	0.140	156.0	0.079	1.03	3.78	32.40

GORE® Space Cables

For Traditional Space Applications

Type SPL (ESCC 3901/019)



In a small, lightweight, and flexible footprint, Type SPL is easy to install in the tightest configurations and reduce the total launch mass of the spacecraft, saving valuable weight for other critical subsystems. These extremely durable cables deliver dependable signals without failure necessary for geostationary earth orbit (GEO) applications (Table 7).

Table 7: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	Polyimide
Insulation Material	Expanded PTFE / Polyimide
Conductor	Silver-Plated Copper or Copper Alloy, True Concentric
Temperature Range (°C)	- 200 to +200

Program Heritage

- Express MD1/MD2
- Globalstar
- MetOp
- XMM

Typical Applications

- DC power distribution
- Low-frequency signals
- Optical instruments

Ordering Information

GORE® Space Cables, Type SPL for GEO applications are available in the following variants in accordance with ISO 2635 (Table 8). Specify **ESCC3901019XXB** with the **XX** being the appropriate variant number. Visit gore.com/cable-distributors for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

Table 8: Cable Variants

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
01	No	1	-(30)	7 × 0.102	0.32	0.057	375.0	—	—	0.78	0.98
02	No	1	-(28)	7 × 0.127	0.47	0.090	253.0	—	—	0.87	1.40
03	No	1	001/(26)	19 × 0.100	0.57	0.150	157.0	—	—	0.96	1.90
04	No	1	002/(24)	19 × 0.120	0.58	0.250	111.0	—	—	1.13	2.60
05	No	1	004/(22)	19 × 0.150	0.76	0.400	58.0	—	—	1.25	3.90
06	No	1	006/(20)	19 × 0.200	0.99	0.600	32.0	—	—	1.48	6.40
07	No	1	012/(16)	19 × 0.300	1.49	1.200	14.0	—	—	1.98	13.00
08	No	1	030/(12)	37 × 0.320	2.18	3.000	7.0	—	—	2.73	27.00
09	No	2	-(30)	7 × 0.102	0.32	0.057	383.0	—	0.78	1.50	2.10
10	No	2	-(28)	7 × 0.127	0.47	0.090	258.0	—	0.87	1.70	2.80
11	No	2	001/(26)	19 × 0.100	0.57	0.150	170.0	—	0.96	1.90	3.80
12	No	2	002/(24)	19 × 0.120	0.58	0.250	120.0	—	1.13	2.30	5.20
13	No	2	004/(22)	19 × 0.150	0.76	0.400	63.0	—	1.25	2.50	8.20
14	No	2	006/(20)	19 × 0.200	0.99	0.600	35.0	—	1.48	3.00	13.50
15	No	2	012/(16)	19 × 0.300	1.49	1.200	15.0	—	1.98	4.00	27.00
16	No	2	030/(12)	37 × 0.320	2.18	3.000	7.5	—	2.73	5.50	55.00
17	No	3	-(30)	7 × 0.102	0.32	0.057	384.0	—	0.78	1.70	3.30
18	No	3	-(28)	7 × 0.127	0.47	0.090	259.0	—	0.87	1.90	4.50
19	No	3	001/(26)	19 × 0.100	0.57	0.150	171.0	—	0.96	2.10	6.20
20	No	3	002/(24)	19 × 0.120	0.58	0.250	121.0	—	1.13	2.50	8.30
21	No	3	004/(22)	19 × 0.150	0.76	0.400	64.0	—	1.25	2.70	12.70
22	No	3	006/(20)	19 × 0.200	0.99	0.600	37.0	—	1.48	3.20	20.60
23	No	3	012/(16)	19 × 0.300	1.49	1.200	15.0	—	1.98	4.30	43.00
24	No	3	030/(12)	37 × 0.320	2.18	3.000	7.5	—	2.73	5.90	88.00
25	No	4	-(30)	7 × 0.102	0.32	0.057	385.0	—	0.78	1.90	4.40
26	No	4	-(28)	7 × 0.127	0.47	0.090	260.0	—	0.87	2.10	6.00
27	No	4	001/(26)	19 × 0.100	0.57	0.150	171.0	—	0.96	2.30	8.20
28	No	4	002/(24)	19 × 0.120	0.58	0.250	122.0	—	1.13	2.70	11.00
29	No	4	004/(22)	19 × 0.150	0.76	0.400	64.0	—	1.25	3.00	16.90
30	No	4	006/(20)	19 × 0.200	0.99	0.600	37.0	—	1.48	3.60	27.30
31	No	4	012/(16)	19 × 0.300	1.49	1.200	16.0	—	1.98	4.80	57.00
32	No	4	030/(12)	37 × 0.320	2.18	3.000	7.9	—	2.73	6.50	118.00
33	No	5	-(28)	7 × 0.127	0.47	0.090	260.0	—	0.87	2.40	7.80
34	No	5	001/(26)	19 × 0.100	0.57	0.150	172.0	—	0.96	2.60	10.70
35	No	5	002/(24)	19 × 0.120	0.58	0.250	123.0	—	1.13	3.10	14.30

GORE® Space Cables, Type SPL (ESCC 3901/019)

Table 8: Cable Variants (continued)

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
36	No	5	004/(22)	19 × 0.150	0.76	0.400	64.0	—	1.25	3.40	21.80
37	No	5	006/(20)	19 × 0.200	0.99	0.600	37.0	—	1.48	4.00	35.00
38	No	6	—/(28)	7 × 0.127	0.47	0.090	261.0	—	0.87	2.60	9.60
39	No	6	001/(26)	19 × 0.100	0.57	0.150	172.0	—	0.96	2.90	13.10
40	No	6	002/(24)	19 × 0.120	0.58	0.250	124.0	—	1.13	3.40	17.60
41	No	6	004/(22)	19 × 0.150	0.76	0.400	65.0	—	1.25	3.70	26.60
42	No	6	006/(20)	19 × 0.200	0.99	0.600	38.0	—	1.48	4.40	48.20
43	No	7	—/(28)	7 × 0.127	0.47	0.090	261.0	—	0.87	2.60	10.50
44	No	7	001/(26)	19 × 0.100	0.57	0.150	172.0	—	0.96	2.90	14.40
45	No	7	002/(24)	19 × 0.120	0.58	0.250	124.0	—	1.13	3.40	19.30
46	No	7	004/(22)	19 × 0.150	0.76	0.400	65.0	—	1.25	3.70	29.60
47	No	7	006/(20)	19 × 0.200	0.99	0.600	38.0	—	1.48	4.40	47.80
48	Yes	1	—/(30)	7 × 0.102	0.32	0.057	375.0	0.063	0.78	1.10	2.60
49	Yes	1	—/(28)	7 × 0.127	0.47	0.090	253.0	0.079	0.87	1.20	3.30
50	Yes	1	001/(26)	19 × 0.100	0.57	0.150	157.0	0.079	0.96	1.30	4.10
51	Yes	1	002/(24)	19 × 0.120	0.58	0.250	111.0	0.079	1.13	1.50	4.80
52	Yes	1	004/(22)	19 × 0.150	0.76	0.400	58.0	0.079	1.25	1.60	6.30
53	Yes	1	006/(20)	19 × 0.200	0.99	0.600	32.0	0.079	1.48	1.90	9.10
54	Yes	1	012/(16)	19 × 0.300	1.49	1.200	14.0	0.079	1.98	2.40	16.80
55	Yes	1	030/(12)	37 × 0.320	2.18	3.000	7.0	0.079	2.73	3.10	31.70
56	Yes	2	—/(30)	7 × 0.102	0.32	0.057	383.0	0.063	0.78	1.90	5.10
57	Yes	2	—/(28)	7 × 0.127	0.47	0.090	258.0	0.079	0.87	2.10	6.10
58	Yes	2	001/(26)	19 × 0.100	0.57	0.150	170.0	0.079	0.96	2.30	7.70
59	Yes	2	002/(24)	19 × 0.120	0.58	0.250	120.0	0.079	1.13	2.70	9.50
60	Yes	2	004/(22)	19 × 0.150	0.76	0.400	63.0	0.079	1.25	2.90	13.40
61	Yes	2	006/(20)	19 × 0.200	0.99	0.600	35.0	0.079	1.48	3.30	19.60
62	Yes	2	012/(16)	19 × 0.300	1.49	1.200	15.0	0.079	1.98	4.30	35.00
63	Yes	2	030/(12)	37 × 0.320	2.18	3.000	7.5	0.079	2.73	5.8	67.0
64	Yes	3	—/(30)	7 × 0.102	0.32	0.057	385.0	0.063	0.78	2.0	6.1
65	Yes	3	—/(28)	7 × 0.127	0.47	0.090	259.0	0.079	0.87	2.3	8.3
66	Yes	3	001/(26)	19 × 0.100	0.57	0.150	171.0	0.079	0.96	2.4	10.3
67	Yes	3	002/(24)	19 × 0.120	0.58	0.250	121.0	0.079	1.13	2.8	13.2
68	Yes	3	004/(22)	19 × 0.150	0.76	0.400	64.0	0.079	1.25	3.1	18.0

Table 8: Cable Variants (continued)

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
69	Yes	3	006/(20)	19 × 0.200	0.99	0.600	37.0	0.079	1.48	3.6	26.8
70	Yes	3	012/(16)	19 × 0.300	1.49	1.200	15.0	0.079	1.98	4.6	51.0
71	Yes	3	030/(12)	37 × 0.320	2.18	3.000	7.5	0.079	2.73	6.2	99.0
72	Yes	4	-(30)	7 × 0.102	0.32	0.057	386.0	0.063	0.78	2.2	7.6
73	Yes	4	-(28)	7 × 0.127	0.47	0.090	260.0	0.079	0.87	2.5	10.4
74	Yes	4	001/(26)	19 × 0.100	0.57	0.150	171.0	0.079	0.96	2.7	12.2
75	Yes	4	002/(24)	19 × 0.120	0.58	0.250	122.0	0.079	1.13	3.1	16.4
76	Yes	4	004/(22)	19 × 0.150	0.76	0.400	64.0	0.079	1.25	3.4	22.9
77	Yes	4	006/(20)	19 × 0.200	0.99	0.600	37.0	0.079	1.48	3.9	34.4
78	Yes	4	012/(16)	19 × 0.300	1.49	1.200	16.0	0.079	1.98	5.1	63.0
79	Yes	4	030/(12)	37 × 0.320	2.18	3.000	7.9	0.079	2.73	6.9	124
80	Yes	5	-(28)	7 × 0.127	0.47	0.090	260.0	0.079	0.87	2.7	12.5
81	Yes	5	001/(26)	19 × 0.100	0.57	0.150	172.0	0.079	0.96	2.9	15.8
82	Yes	5	002/(24)	19 × 0.120	0.58	0.250	123.0	0.079	1.13	3.4	20.4
83	Yes	5	004/(22)	19 × 0.150	0.76	0.400	64.0	0.079	1.25	3.7	28.4
84	Yes	5	006/(20)	19 × 0.200	0.99	0.600	37.0	0.079	1.48	4.4	43.0
85	Yes	6	-(28)	7 × 0.127	0.47	0.090	261.0	0.079	0.87	3.0	14.8
86	Yes	6	001/(26)	19 × 0.100	0.57	0.150	172.0	0.079	0.96	3.2	18.8
87	Yes	6	002/(24)	19 × 0.120	0.58	0.250	124.0	0.079	1.13	3.8	24.3
88	Yes	6	004/(22)	19 × 0.150	0.76	0.400	65.0	0.079	1.25	4.1	34.0
89	Yes	6	006/(20)	19 × 0.200	0.99	0.600	38.0	0.079	1.48	4.8	58.2
90	Yes	7	-(28)	7 × 0.127	0.47	0.090	261.0	0.079	0.87	3.0	15.7
91	Yes	7	001/(26)	19 × 0.100	0.57	0.150	172.0	0.079	0.96	3.2	20.1
92	Yes	7	002/(24)	19 × 0.120	0.58	0.250	124.0	0.079	1.13	3.8	26.0
93	Yes	7	004/(22)	19 × 0.150	0.76	0.400	65.0	0.079	1.25	4.1	37.0
94	Yes	7	006/(20)	19 × 0.200	0.99	0.600	38.0	0.079	1.48	4.8	57.0

GORE® Space Cables

For Traditional Space Applications

Type SPLD (ESCC 3901/021)



With an additional drain wire, Type SPLD for geostationary earth orbit (GEO) applications simplify shield termination of wires into contacts. They distribute unfailing power and signals in a small, low-weight, and flexible package that reduces the mass of the spacecraft at launch (Table 9).

Table 9: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	Polyimide
Insulation Material	Expanded PTFE / Polyimide
Conductor	Silver-Plated Copper or Copper Alloy, True Concentric
Temperature Range (°C)	-200 to +200

Program Heritage

- Envisat
- XMM-Newton

Typical Applications

- DC power distribution
- Low-frequency signals
- Optical instruments

Ordering Information

GORE® Space Cables, Type SPLD for GEO applications are available in the following variants in accordance with ISO 2635 (Table 10). Specify **ESCC3901021XXB** with the **XX** being the appropriate variant number. Visit [gore.com/cable-distributors](https://www.gore.com/cable-distributors) for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

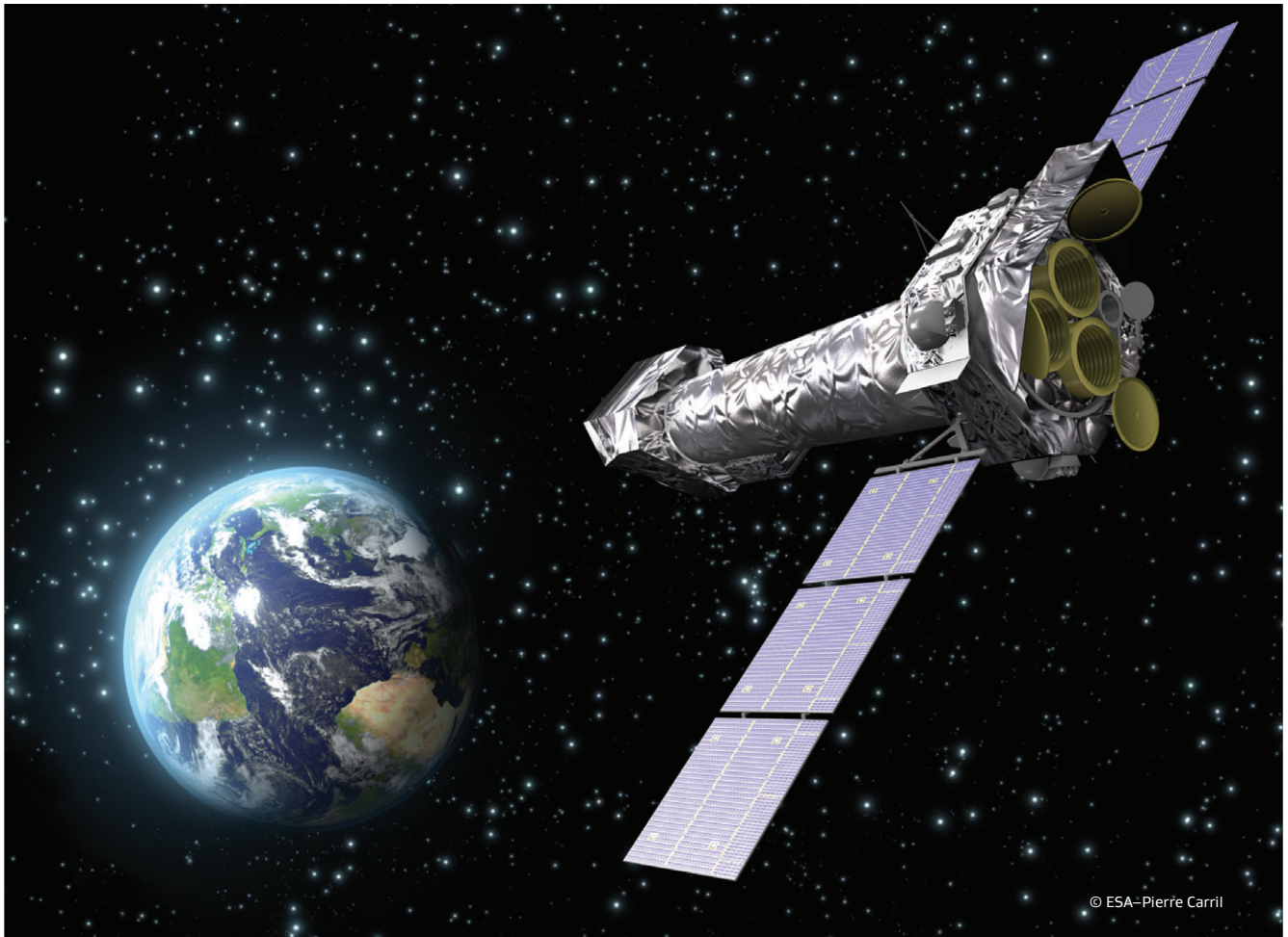
Table 10: Cable Variants

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
01	-(30)	1	-(30)	7 × 0.102	0.32	0.057	375.0	0.063	0.78	1.4	3.4
02	-(28)	1	-(28)	7 × 0.127	0.39	0.090	253.0	0.079	0.87	1.6	4.8
03	001/(26)	1	001/(26)	19 × 0.100	0.47	0.150	157.0	0.079	0.99	1.8	5.8
04	002/(24)	1	002/(24)	19 × 0.120	0.58	0.250	111.0	0.079	1.13	2.1	7.4
05	004/(22)	1	004/(22)	19 × 0.150	0.76	0.400	58.0	0.079	1.26	2.4	12.0
06	006/(20)	1	006/(20)	19 × 0.200	0.99	0.600	32.0	0.079	1.48	2.9	17.0
07	-(18)	1	-(18)	19 × 0.250	1.29	0.960	21.0	0.079	1.70	3.9	30.0
08	012/(16)	1	012/(16)	19 × 0.300	1.49	1.200	14.0	0.079	1.98	4.0	34.0
09	030/(12)	1	030/(12)	37 × 0.320	2.18	3.000	7.0	0.079	2.70	5.3	66.0
10	-(30)	2	-(30)	7 × 0.102	0.32	0.057	383.0	0.063	0.78	2.2	5.7
11	-(28)	2	-(28)	7 × 0.127	0.39	0.090	258.0	0.079	0.87	2.5	7.0
12	001/(26)	2	001/(26)	19 × 0.100	0.47	0.150	170.0	0.079	0.99	2.8	9.1
13	002/(24)	2	002/(24)	19 × 0.120	0.58	0.250	120.0	0.079	1.13	3.3	11.4
14	004/(22)	2	004/(22)	19 × 0.150	0.76	0.400	63.0	0.079	1.26	3.7	17.0
15	006/(20)	2	006/(20)	19 × 0.200	0.99	0.600	35.0	0.079	1.48	4.3	25.0
16	012/(16)	2	012/(16)	19 × 0.300	1.49	1.200	15.0	0.079	1.98	5.9	48.0
17	030/(12)	2	030/(12)	37 × 0.320	2.18	3.000	7.5	0.079	2.73	8.0	95.0
18	-(30)	3	-(30)	7 × 0.102	0.32	0.057	385.0	0.063	0.78	2.3	6.7
19	-(28)	3	-(28)	7 × 0.127	0.39	0.090	259.0	0.079	0.87	2.7	9.2
20	001/(26)	3	001/(26)	19 × 0.100	0.47	0.150	171.0	0.079	0.99	2.9	12.0
21	002/(24)	3	002/(24)	19 × 0.120	0.58	0.250	121.0	0.079	1.13	3.4	15.0
22	004/(22)	3	004/(22)	19 × 0.150	0.76	0.400	64.0	0.079	1.26	3.9	21.0
23	006/(20)	3	006/(20)	19 × 0.200	0.99	0.600	37.0	0.079	1.48	4.6	33.0
24	-(30)	4	-(30)	7 × 0.102	0.32	0.057	386.0	0.063	0.78	2.5	8.2
25	-(28)	4	-(28)	7 × 0.127	0.39	0.090	260.0	0.079	0.87	2.9	11.0
26	001/(26)	4	001/(26)	19 × 0.100	0.47	0.150	171.0	0.079	0.99	3.2	14.0
27	002/(24)	4	002/(24)	19 × 0.120	0.58	0.250	122.0	0.079	1.13	3.7	18.0

GORE® Space Cables, Type SPLD (ESCC 3901/021)

Table 10: Cable Variants (continued)

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
29	006/(20)	4	006/(20)	19 × 0.200	0.99	0.600	37.0	0.079	1.48	4.9	40.0
30	001/(26)	5	001/(26)	19 × 0.100	0.47	0.150	172.0	0.079	0.99	3.4	17.0
31	002/(24)	5	002/(24)	19 × 0.120	0.58	0.250	123.0	0.079	1.13	4.0	22.0
32	004/(22)	5	004/(22)	19 × 0.150	0.76	0.400	64.0	0.079	1.26	4.5	32.0
33	006/(20)	5	006/(20)	19 × 0.200	0.99	0.600	37.0	0.079	1.48	5.4	49.0
34	001/(26)	6	001/(26)	19 × 0.100	0.47	0.150	172.0	0.079	0.99	3.7	20.0
35	002/(24)	6	002/(24)	19 × 0.120	0.58	0.250	124.0	0.079	1.13	4.4	26.0
36	004/(22)	6	004/(22)	19 × 0.150	0.76	0.400	65.0	0.079	1.26	4.9	37.0
37	006/(20)	6	006/(20)	19 × 0.200	0.99	0.600	38.0	0.079	1.48	5.8	62.0
38	001/(26)	7	001/(26)	19 × 0.100	0.47	0.150	172.0	0.079	0.99	3.7	22.0
39	002/(24)	7	002/(24)	19 × 0.120	0.58	0.250	124.0	0.079	1.13	4.4	28.0
40	004/(22)	7	004/(22)	19 × 0.150	0.76	0.400	65.0	0.079	1.26	4.9	40.0
41	006/(20)	7	006/(20)	19 × 0.200	0.99	0.600	38.0	0.079	1.48	5.8	65.0

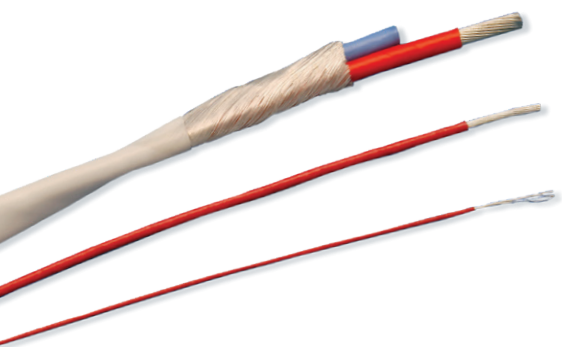


Gore's Type SPLD distributes unfailing power and signals while reducing total launch mass of spacecraft such as the XMM-Newton.

GORE® Space Cables

For Traditional Space Applications

Type CSWL (ESCC 3901/024)



Built with robust materials that are chemical and temperature resistant, Type CSWL tolerates the most challenging conditions inside and outside the spacecraft (Table 11). The unique fluoropolymer insulation in the construction also reduces the risk of cut-through and material creep, unlike standard materials. They are well suited for use in all areas of a spacecraft — from propulsion to optical systems.

Table 11: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	Expanded PTFE / PFA
Insulation Material	Engineered Fluoropolymer / PTFE
Conductor	Silver-Plated Copper or Copper Alloy, True Concentric
Temperature Range (°C)	-200 to +200

Program Heritage

- Vega Launcher

Typical Applications

- Launchers
- Low Earth Orbit (LEO) satellites
- Manned/Unmanned space missions
- Transfer vehicles

Ordering Information

GORE® Space Cables, Type CSWL are available in the following variants in accordance with ISO 2635 (Table 12). Specify **ESCC3901024XXB** with the **XX** being the appropriate variant number. Visit gore.com/cable-distributors for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

Table 12: Cable Variants

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
01	No	1	-/30	7 × 0.102	0.32	0.057	375.0	—	—	0.75	1.3
02	No	1	-/28	7 × 0.127	0.39	0.090	253.0	—	—	0.85	1.7
03	No	1	001/26	19 × 0.100	0.47	0.150	157.0	—	—	1.00	2.2
04	No	1	002/24	19 × 0.120	0.58	0.250	111.0	—	—	1.15	3.1
05	No	1	004/22	19 × 0.150	0.76	0.400	58.0	—	—	1.30	4.4
06	No	1	006/20	19 × 0.200	0.99	0.600	32.0	—	—	1.55	7.4
07	No	1	012/16	19 × 0.300	1.49	1.200	14.0	—	—	2.20	17.0
08	No	1	030/12	37 × 0.320	2.18	3.000	7.0	—	—	3.00	33.0
09	No	2	-/30	7 × 0.102	0.32	0.057	383.0	—	0.75	1.50	2.7
10	No	2	-/28	7 × 0.127	0.39	0.090	258.0	—	0.85	1.70	3.5
11	No	2	001/26	19 × 0.100	0.47	0.150	170.0	—	1.00	2.00	4.6
12	No	2	002/24	19 × 0.120	0.58	0.250	120.0	—	1.15	2.30	6.5
13	No	2	004/22	19 × 0.150	0.76	0.400	63.0	—	1.30	2.60	9.2
14	No	2	006/20	19 × 0.200	0.99	0.600	35.0	—	1.55	3.10	15.5
15	No	2	012/16	19 × 0.300	1.49	1.200	15.0	—	2.20	4.40	35.7
16	No	2	030/12	37 × 0.320	2.18	3.000	7.5	—	3.00	6.00	69.3
17	No	3	-/30	7 × 0.102	0.32	0.057	384.0	—	0.75	1.60	4.1
18	No	3	-/28	7 × 0.127	0.39	0.090	259.0	—	0.85	1.80	5.3
19	No	3	001/26	19 × 0.100	0.47	0.150	171.0	—	1.00	2.20	6.9
20	No	3	002/24	19 × 0.120	0.58	0.250	121.0	—	1.15	2.50	9.8
21	No	3	004/22	19 × 0.150	0.76	0.400	64.0	—	1.30	2.80	13.9
22	No	3	006/20	19 × 0.200	0.99	0.600	37.0	—	1.55	3.30	23.3
23	No	3	012/16	19 × 0.300	1.49	1.200	15.0	—	2.20	4.70	53.6

GORE® Space Cables, Type CSWL (ESCC 3901/024)

Table 12: Cable Variants (continued)

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
25	No	4	-/30	7 × 0.102	0.32	0.057	385.0	—	0.75	1.80	5.4
26	No	4	-/28	7 × 0.127	0.39	0.090	260.0	—	0.85	2.00	7.1
27	No	4	001/26	19 × 0.100	0.47	0.150	171.0	—	1.00	2.40	9.2
28	No	4	002/24	19 × 0.120	0.58	0.250	122.0	—	1.15	2.80	13.0
29	No	4	004/22	19 × 0.150	0.76	0.400	64.0	—	1.30	3.10	18.5
30	No	4	006/20	19 × 0.200	0.99	0.600	37.0	—	1.55	3.70	31.1
31	No	4	012/16	19 × 0.300	1.49	1.200	16.0	—	2.20	5.30	71.4
32	No	4	030/12	37 × 0.320	2.18	3.000	7.9	—	3.00	7.20	138.6
33	Yes	1	-/30	7 × 0.102	0.32	0.057	383.0	0.079	0.75	1.35	4.3
34	Yes	1	-/28	7 × 0.127	0.39	0.090	258.0	0.079	0.85	1.45	5.0
35	Yes	1	001/26	19 × 0.100	0.47	0.150	170.0	0.079	1.00	1.60	6.0
36	Yes	1	002/24	19 × 0.120	0.58	0.250	120.0	0.079	1.15	1.75	7.3
37	Yes	1	004/22	19 × 0.150	0.76	0.400	63.0	0.079	1.30	1.90	9.1
38	Yes	1	006/20	19 × 0.200	0.99	0.600	35.0	0.079	1.55	2.15	12.8
39	Yes	1	012/16	19 × 0.300	1.49	1.200	15.0	0.079	2.20	2.80	24.0
40	Yes	1	030/12	37 × 0.320	2.18	3.000	7.5	0.079	3.00	3.60	42.8
41	Yes	2	-/30	7 × 0.102	0.32	0.057	383.0	0.079	0.75	2.10	7.3
42	Yes	2	-/28	7 × 0.127	0.39	0.090	258.0	0.079	0.85	2.30	8.5
43	Yes	2	001/26	19 × 0.100	0.47	0.150	170.0	0.079	1.00	2.6	10.0
44	Yes	2	002/24	19 × 0.120	0.58	0.250	120.0	0.079	1.15	2.9	12.5

Table 12: Cable Variants (continued)

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
45	Yes	2	004/22	19 × 0.150	0.76	0.400	63.0	0.079	1.30	3.2	16.0
46	Yes	2	006/20	19 × 0.200	0.99	0.600	35.0	0.079	1.55	3.7	24.2
47	Yes	2	012/16	19 × 0.300	1.49	1.200	15.0	0.079	2.20	5.0	44.5
48	Yes	2	030/12	37 × 0.320	2.18	3.000	7.5	0.079	3.00	6.6	81.0
49	Yes	3	-/30	7 × 0.102	0.32	0.057	385.0	0.079	0.75	2.2	9.0
50	Yes	3	-/28	7 × 0.127	0.39	0.090	259.0	0.079	0.85	2.4	10.6
51	Yes	3	001/26	19 × 0.100	0.47	0.150	171.0	0.079	1.00	2.8	12.7
52	Yes	3	002/24	19 × 0.120	0.58	0.250	121.0	0.079	1.15	3.1	15.9
53	Yes	3	004/22	19 × 0.150	0.76	0.400	64.0	0.079	1.30	3.4	24.3
54	Yes	3	006/20	19 × 0.200	0.99	0.600	37.0	0.079	1.55	3.9	33.0
55	Yes	3	012/16	19 × 0.300	1.49	1.200	15.0	0.079	2.20	5.3	62.2
56	Yes	3	030/12	37 × 0.320	2.18	3.000	7.5	0.079	3.00	7.0	115.5
57	Yes	4	-/30	7 × 0.102	0.32	0.057	386.0	0.079	0.75	2.4	10.9
58	Yes	4	-/28	7 × 0.127	0.39	0.090	260.0	0.079	0.85	2.6	13.0
59	Yes	4	001/26	19 × 0.100	0.47	0.150	171.0	0.079	1.00	3.0	15.7
60	Yes	4	002/24	19 × 0.120	0.58	0.250	122.0	0.079	1.15	3.4	20.2
61	Yes	4	004/22	19 × 0.150	0.76	0.400	64.0	0.079	1.30	3.7	26.4
62	Yes	4	006/20	19 × 0.200	0.99	0.600	37.0	0.079	1.55	4.3	42.0
63	Yes	4	012/16	19 × 0.300	1.49	1.200	16.0	0.079	2.20	5.9	80.7
64	Yes	4	030/12	37 × 0.320	2.18	3.000	7.9	0.079	3.00	7.8	151.5

GORE® Space Cables

For Traditional Space Applications

Type CSC (ESCC 3901/025)



Significantly smaller and lighter weight, Type CSC offers a cost-effective alternative to other cables that are qualified according to ESCC 3901. They distribute power and deliver signals consistently and reliably while providing robust protection for the duration of the mission (Table 13). The combination of enhanced color coding, greater flexibility, and tighter bend radius make our wires easier to identify and faster to route.

Table 13: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	Engineered Fluoropolymer / Polyimide
Insulation Material	Engineered Fluoropolymer / Polyimide
Conductor	Silver-Plated Copper or Copper Alloy, True Concentric
Temperature Range (°C)	-200 to +200

Program Heritage

- Meteosat Third Generation

Typical Applications

- Analog signal transmission (box-to-box)
- Power/low-frequency signal distribution

Ordering Information

GORE® Space Cables, Type CSC are available in the following variants in accordance with ISO 2635 (Table 14). Specify **ESCC3901025XXB** with the **XX** being the appropriate variant number. Visit gore.com/cable-distributors for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

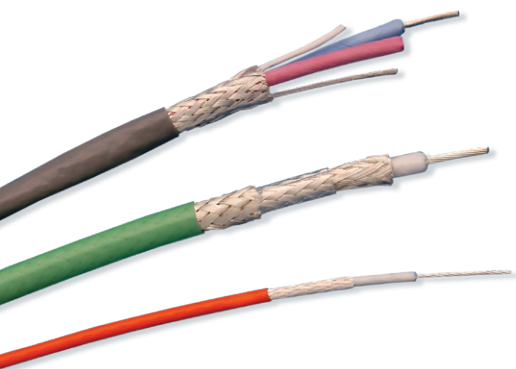
Table 14: Cable Variants

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Shield Strand Diameter (mm)	Core Maximum Diameter (mm)	Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistance (Ω/km)			Maximum Diameter (mm)	Maximum Weight (kg/km)
01	No	1	-(28)	7 x 0.127	0.39	0.09	253.0	—	—	0.62	1.14
02	No	1	001/(26)	19 x 0.100	0.47	0.15	157.0	—	—	0.73	1.63
03	No	1	002/(24)	19 x 0.120	0.58	0.25	111.0	—	—	0.83	2.30
04	No	1	004/(22)	19 x 0.150	0.76	0.40	58.0	—	—	1.00	3.70
05	No	1	006/(20)	19 x 0.200	0.99	0.60	32.0	—	—	1.25	6.25
06	No	1	012/(16)	19 x 0.300	1.49	1.20	14.0	—	—	1.80	12.98
07	No	2	001/(26)	19 x 0.100	0.47	0.15	170.0	—	0.78	1.49	3.50
08	No	2	002/(24)	19 x 0.120	0.58	0.25	120.0	—	0.90	1.80	4.90
09	No	2	004/(22)	19 x 0.150	0.76	0.40	63.0	—	1.10	2.20	7.60
10	No	2	006/(20)	19 x 0.200	0.99	0.60	35.0	—	1.26	2.50	12.70
11	Yes	2	-(28)	7 x 0.127	0.39	0.09	258.0	0.079	0.75	1.70	5.60
12	Yes	2	001/(26)	19 x 0.100	0.47	0.15	170.0	0.079	0.78	1.80	6.90
13	Yes	2	002/(24)	19 x 0.120	0.58	0.25	120.0	0.079	0.90	2.15	8.50
14	Yes	2	004/(22)	19 x 0.150	0.76	0.40	63.0	0.079	1.10	2.40	12.20
15	Yes	2	006/(20)	19 x 0.200	0.99	0.60	35.0	0.079	1.26	2.95	18.50
16	Yes	3	-(28)	7 x 0.127	0.39	0.09	259.0	0.079	0.75	1.80	7.50
17	Yes	3	001/(26)	19 x 0.100	0.47	0.15	171.0	0.079	0.78	1.95	8.80
18	Yes	3	002/(24)	19 x 0.120	0.58	0.25	121.0	0.079	0.90	2.30	11.30
19	Yes	4	-(28)	7 x 0.127	0.39	0.09	260.0	0.079	0.75	2.00	9.30
20	Yes	4	001/(26)	19 x 0.100	0.47	0.15	171.0	0.079	0.78	2.20	11.10
21	Yes	4	002/(24)	19 x 0.120	0.58	0.25	122.0	0.079	0.90	2.40	14.30

GORE® Space Cables

For Traditional Space Applications

Types GCX/GTX/GBL (ESCC 3902/002)



Designed precisely for dataline applications, Types GCS/GTX/GBL are manufactured as coaxial, triaxial, and balanced shielded lines. They deliver outstanding signals with low capacitance, low insertion loss, and minimal time delay for high data rate transmission up to 1 GHz (Table 15). The small diameter and low weight of these cables also minimize the problems associated with balancing difficult mass budgets.

Table 1: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	Polyimide
Insulation Material	Expanded PTFE / Polyimide
Conductor	Silver-Plated Copper or Copper Alloy, True Concentric
Temperature Range (°C)	- 200 to +200

Program Heritage

- Express MD1/MD2
- Intermediate eXperimental Vehicle (IXV)
- International Space Station (ISS)
- James Webb Space Telescope (JWST)
- NASA Lunar Reconnaissance Orbiter
- XMM

Typical Applications

- Digital signal processors
- High-resolution cameras, sensors, and detectors
- High-speed subsystem interconnects

Ordering Information

GORE® Space Cables, Types GCX/GTX/GBL for dataline applications are available in the following variants (Tables 16-18). Specify **ESCC3902002XXB** with the **XX** being the appropriate variant number. Visit [gore.com/cable-distributors](https://www.gore.com/cable-distributors) for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

Table 16: GCX (Coaxial) Cable Variants

Variant No.	Gore Part Number	ZO (Ω)	AWG	Inner Conductor				Diel. Core Ø (mm)	Shield		Characteristics	
				No. of Strands x Ø (mm)	Max. Ø (mm)	Nominal Section (mm²)	Max. DC Resist. (Ω/km)		Constr.	Strand Ø (mm)	Max. Ø (mm)	Max. Weight (kg/km)
03	GCX-050-28	50	28	7 x 0.126	0.39	0.089	239.0	1.05	BS	0.079	1.75	6.5
04	GCX-050-26	50	26	7 x 0.160	0.49	0.140	150.0	1.25	BS	0.079	2.05	8.3
05	GCX-050-20	50	20	19 x 0.202	1.03	0.610	30.8	3.00	BS	1.020	3.90	28.0
06	GCX-075-26	75	26	7 x 0.160	0.49	0.140	150.0	2.07	BS	0.079	2.90	14.0

Table 17: GTX (Triaxial) Cable Variants

Variant No.	Gore Part Number	ZO (Ω)	AWG	Inner Conductor				Diel. Core Ø (mm)	Inner Shield Jacket Ø (mm)	Inner Jacket Ø (mm)	Second Shield		Characteristics	
				No. of Strands x Ø (mm)	Max. Ø (mm)	Nominal Section (mm²)	Max. DC Resist. (Ω/km)				Foil Shield Thickness (mm)	Strand Ø (mm)	Max. Ø (mm)	Max. Weight (kg/km)
10	GTX-050-26	50	26	7 x 0.160	0.49	0.14	150.0	1.25	0.079	1.9	—	0.079	2.9	16.0
11	GTX-050-20	50	20	19 x 0.202	1.03	0.61	30.8	3.00	0.102	3.8	—	0.102	5.2	52.0
12	GTX-075-20	75	20	19 x 0.202	1.03	0.61	30.8	4.33	0.102	5.2	—	0.102	7.3	74.0
13	GSC-05-2616-00	75	20	19 x 0.202	1.03	0.61	30.8	4.33	0.102	5.2	0.025	0.102	7.3	85.0

Table 18: GBL (Balanced Shielded Line) Cable Variants

Variant No.	Gore Part Number	ZO (Ω)	AWG	Inner Conductor				Insulation Wire Max. Ø (mm)	Filler Ø (mm)	Shield		Balanced Shielded Line	
				No. of Strands x Ø (mm)	Max. Ø (mm)	Nominal Section (mm²)	Max. DC Resist. (Ω/km)			Foil Shield Thickness (mm)	Strand Ø (mm)	Max. Ø (mm)	Max. Weight (kg/km)
20	GBL-075-24	75	24	19 x 0.126	0.65	0.240	95.0	1.20	1.0	2.40	0.079	3.9	24.0
21	GBL-100-22	100	22	19 x 0.160	0.82	0.380	54.0	2.10	2.0	4.20	0.079	5.2	36.0
22	GBL-120-30	120	30	7 x 0.102	0.32	0.057	401.0	0.80	1.0	1.60	0.079	2.8	14.0
23	GBL-120-28	120	28	7 x 0.126	0.39	0.089	256.0	1.30	1.0	2.60	0.079	3.3	18.0
24	GBL-120-26	120	26	7 x 0.160	0.49	0.140	159.0	1.60	1.0	3.20	0.079	3.8	21.0
25	GBL-120-24	120	24	19 x 0.126	0.65	0.240	89.0	2.10	1.0	4.20	0.079	5.3	32.0
26	GSC-05-82292-00	100	30	7 x 0.102	0.32	0.057	401.0	0.85	—	1.70	0.079	2.2	11.0
27	GSC-05-82560-00	100	28	7 x 0.126	0.39	0.089	256.0	0.89	1.0	1.78	0.079	2.9	14.0
28	GSC-05-81973-00	100	26	7 x 0.160	0.49	0.140	159.0	1.10	1.0	2.20	0.079	3.1	18.0
29	GSC-05-82559-00	100	24	19 x 0.126	0.65	0.240	89.0	1.50	1.0	3.00	0.079	3.9	22.0
30	GSC-05-82561-00	100	22	19 x 0.160	0.82	0.380	54.0	1.80	1.0	3.60	0.079	4.8	28.0

GORE® Space Cables

For Traditional Space Applications

Type SpaceWire (ESCC 3902/003)



These cables deliver bi-directional, high-speed data transmission up to 400 Mb/s with minimal crosstalk, low insertion loss, and low skew (Table 19). Using a serial, point-to-point dataline with low-voltage differential signals (LVDS), Type SpaceWire can be integrated into many different satellite programs without requiring any custom designs for reduced costs.

Table 19: Cable Properties

Electrical/Mechanical/Environmental

Property	Value
Maximum Operating Voltage (Vrms)	200
Jacket Material	PFA
Insulation Material	Expanded PTFE
Conductor	Silver-Plated, High-Strength Copper Alloy
Temperature Range (°C)	200 to +180

Program Heritage

- Automated Transfer Vehicle (ATV)
- James Webb Space Telescope (JWST)
- KAI
- SDO

Typical Applications

- High-resolution cameras
- Radar sensor equipment
- Sensor, mass memory unit, and telemetry subsystem interconnections

Ordering Information

GORE® Space Cables, Type SpaceWire are available in the following variants (Tables 20-21). Specify **ESCC3902003XXB** with the **XX** being the appropriate variant number. Visit gore.com/cable-distributors for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

Table 20: Cable Variants

Variant No.	ZO (Ω)	AWG	Inner Conductor					Filler Ø (mm)	Inner Shield		Binder
			No. of Strands x Ø (mm)	Max. Ø (mm)	Nominal Section (mm²)	Max. DC Resistance (Ω/km)	Insulation Wire Max. Ø (mm)		Constr.	Strand Ø (mm)	Nom. Ø (mm)
01	100	28	7 x 0.126	0.39	0.089	256	1.2	1.0	BS	0.079	—
02	100	26	7 x 0.160	0.49	0.141	159	1.4	1.0	BS	0.079	0.076

Table 21: Cable Variants

Variant No.	Symmetric Cable Characteristics			Binder RC Nom. Ø (mm)	Outer Shield RC		Round Cable Characteristics		Bend Radius
	Max. Ø (mm)	Max. Weight (kg/km)	Filler RC Ø (mm)		Constr.	Strand Ø (mm)	Max. Ø (mm)	Max. Weight (kg/km)	Min. (mm)
01	2.7	12.0	1.0	0.102	BS	0.102	7.5	85.0	45
02	3.1	15.0	1.4	0.102	BS	0.102	9.0	100.0	60

GORE® Space Cables

For Traditional Space Applications

ASW (Anti-Static Wire)



For applications that require constant cable movement, ASW durably protects against static that builds up over time and eliminates short circuits in vital interconnects (Table 22). These cables have a unique jacket film that effectively drains static electricity in geostationary earth orbit (GEO) and low earth orbit (LEO) applications.

Table 22: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage (Vrms)	600
Jacket Material	GEO: Conductive Film LEO: Semi-Conductive Fluoropolymer
Insulation Material	GEO: Expanded PTFE / Polyimide LEO: Engineered Fluoropolymer
Conductor	Silver-Plated Copper or Copper
Temperature Range (°C)	-200 to +200

Program Heritage

- Eurostar 3000
- LS 1300

Typical Applications

- Ion thruster
- Solar array wiring
- Stationary plasma thrusters

Ordering Information

GORE® Space Cables, ASW for GEO and LEO applications are available in the following variants (Table 23). Visit gore.com/cable-distributors for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

Table 23: Cable Variants

GEO

Variant No.	Shielded	No. of Cores	Wire Size (AWG)	No. of Strands x Diameter (mm)	Conductor Characteristics			Finished Wire or Cable Characteristics	
					Maximum Diameter (mm)	Nominal Section (mm ²)	Maximum Resistanc Ω /km)	Maximum Diameter (mm)	Maximum Weight (kg/km)
GSC-05-83601-00	No	1	22	19 x 0.160	0.82	0.38	49.5	1.45	5.0
GSC-05-83602-00	No	1	24	19 x 0.127	0.65	0.24	85.0	1.30	3.7
GSC-05-83603-00	No	1	20	19 x 0.203	1.03	0.62	31.0	1.80	8.0

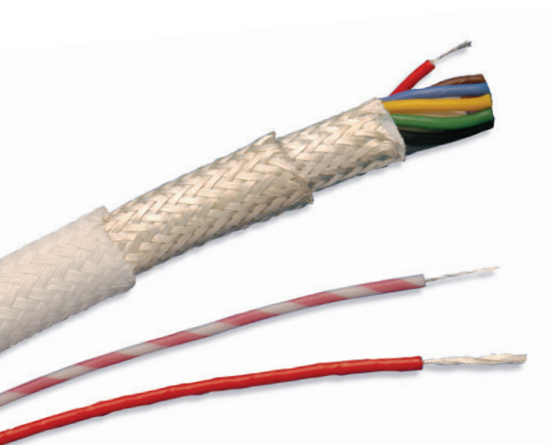
LEO

GSC-05-84612-00	No	1	20	19 x 0.203	1.03	0.62	31.0	1.90	10.0
GSC-05-84613-00	No	1	22	19 x 0.160	0.81	0.38	49.5	1.65	7.0
GSC-05-84614-00	No	1	24	19 x 0.127	0.65	0.24	86.0	1.50	6.0

GORE® Space Cables

For Traditional Space Applications

High-Voltage Cables



Program Heritage

- Eurostar 3000
- LS 1300

Typical Applications

- Ion thruster
- Solar array wiring
- Stationary plasma thrusters

Based on extensive test data recorded under actual operating conditions, our cables provide highly reliable performance at maximum voltage ratings for a minimum of 10,000 hours (Table 24). They are chemically inert and thermally resistant for added durability and lifetime service. These cables are available as hook-up wires or round cables to meet your specific application needs and requirements.

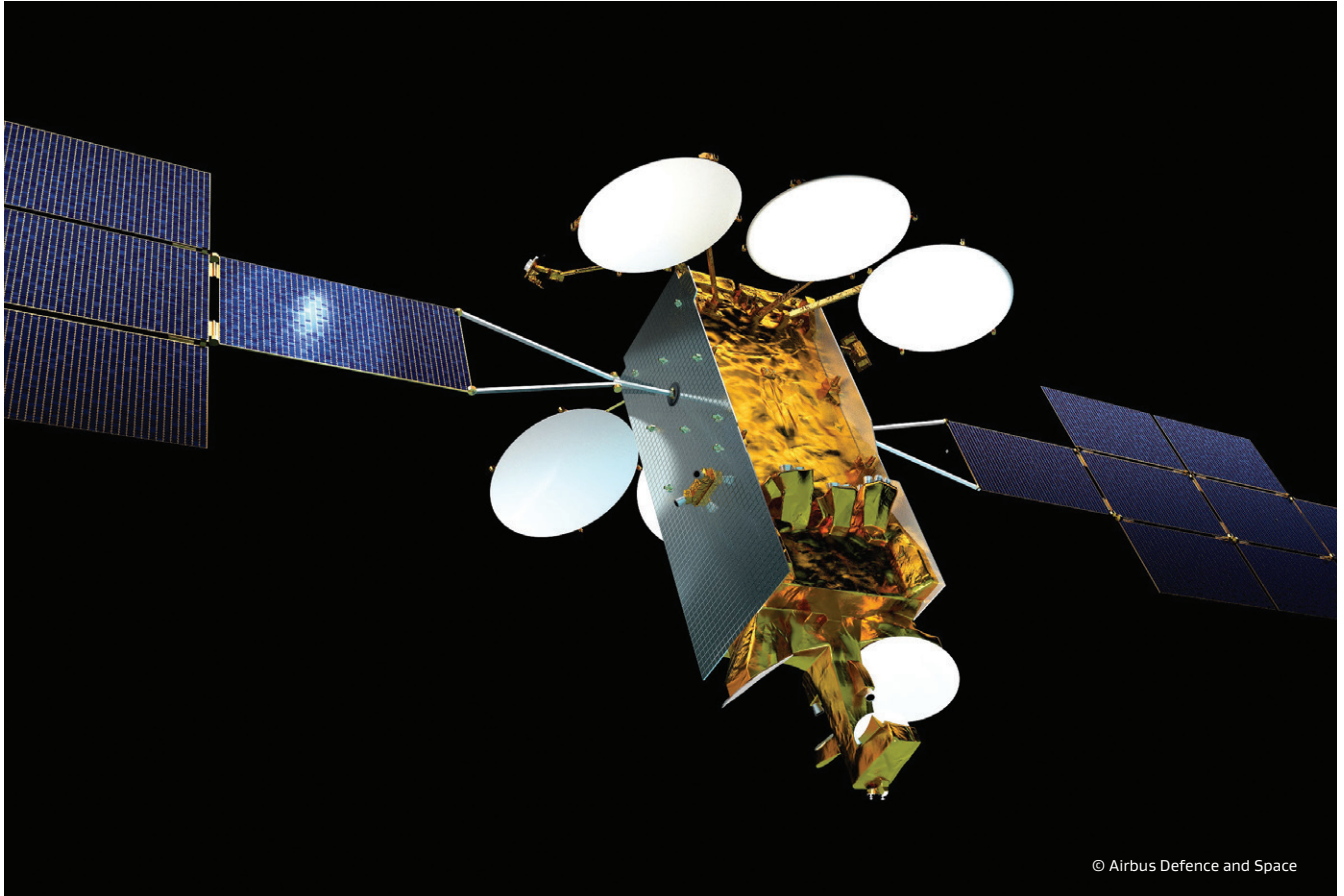
Table 24: Cable Properties

Electrical / Mechanical / Environmental

Property	Value
Maximum Operating Voltage kV AC (kV DC)	1.5 (300) to 16 (36)
Jacket Material	Corona-Resistant PTFE
Insulation Material	Expanded PTFE and/or PTFE
Conductor	Silver-Plated Copper or Copper Alloy, True Concentric
Temperature Range (°C)	-200 to +180

Ordering Information

GORE® Space Cables for high-voltage applications are available in a variety of standard sizes. Visit [gore.com/cable-distributors](https://www.gore.com/cable-distributors) for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.



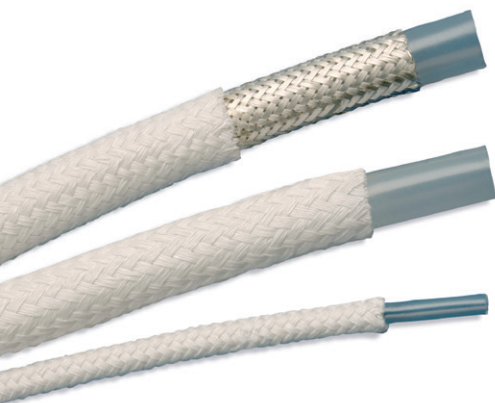
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Gore's durable high-voltage cables have been proven over time in applications such as the Eurostar satellite.

GORE® Space Cables

For Traditional Space Applications

Protective Braids



Gore offers protective braids installed over cable bundles that provide durable protection in extreme temperatures and enhanced EMI suppression for reliable signal integrity (Table 25). These high-strength braids are also smaller and more flexible for easier routing in tight areas of a spacecraft.

Ordering Information

Gore Protective Braids are available in a variety of standard sizes. Visit [gore.com/cable-distributors](https://www.gore.com/cable-distributors) for the list of distributors. For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

Table 25: Cable Braid Properties

Braid Type	Plating μm min.	Operating Temperature $^{\circ}\text{C}$
ePTFE	N/A	-200 to + 260
Copper	Silver (2.5)	-200 to +200
Copper	Nickel (1.2)	-200 to +200
ePTFE over copper	Silver (2.5)	-200° to +200
ePTFE over copper	Nickel (1.2)	-200 to +200

GORE® Space Cables

For Traditional Space Applications

Stripping Blades (Finished Wires)

Gore offers cutting blades to fit the Custom Stripmaster® or Custom Stripmaster® Lite Wire Strippers from Ideal Industries, Inc. (Table 26). The blades are designed specifically for a variety of GORE® Space Cables to ensure repeatable and dependable results when using the tool.

Table 26: Ordering Information

Gore Part Number	Description	Fit
95000038	SPL Cutting Blade LITE	ESCC 3901/019 — AWG 20/22/24/26
95000036	SPL Cutting Blade	ESCC 3901/019 — AWG 16/20/22/24/26
95000037	SPL Cutting Blade Set	ESCC 3901/019 — AWG 12/18/28/30 + Gripper
95000048	SPM Cutting Blade LITE	ESCC 3901/018 — AWG 20/22/24/26
95000046	SPM Cutting Blade	ESCC 3901/018 — AWG 16/20/22/24/26
95000047	SPM Cutting Blade Set	ESCC 3901/018 — AWG 12/24/28/30 + Gripper
10933552	CSC Cutting Blade LITE	ESCC 3901/025 — AWG 20/22/24/26
10320248	CSC Cutting Blade	ESCC 3901/025 — AWG 20/22/24/26
10739276	CSC Cutting Blade	ESCC 3901/025 — AWG 16/28
10362180	ASW Cutting Blade 20	ASW GEO — AWG 20
10320246	ASW Cutting Blade 22	ASW GEO — AWG 22
10320247	ASW Cutting Blade 24	ASW GEO — AWG 24
10711451	ASW Cutting Blade 12 Set	ASW GEO — AWG 12 + Gripper
10711452	ASW Cutting Blade 16	ASW GEO — AWG 16

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