



GORE® Space Cables

TYPE CSC

Technical Note

Reliable Performance With ESCC-Approved Cables

GORE® Space Cables, Type CSC are qualified according to ESCC 3901/025. They are up to 29 percent smaller and up to 19 percent lighter when compared to ESCC 3901/019. In addition they are up to 10 percent smaller and 21 percent lighter when compared to ESCC 3901/002. The smaller cable diameter increases flexibility for a tighter bend radius and easier routing, and the enhanced color coding provides easier identification for faster installation. These cables have a robust construction that provides reliable power and signal distribution for long-lasting performance (Table 1). GORE® Space Cables, Type CSC offer a cost-effective alternative to other cables that are qualified according to ESCC 3901.



TYPICAL USES

- Power and signal distribution
- Analog signal transmission (box-to-box)

TABLE 1: CABLE PROPERTIES

Property	Value
Maximum Operating Voltage (V RMS)	600
Conductor	Silver-plated, soft or annealed, oxygen-free high conductivity copper (ISO 004, 006 and 012 sizes) Silver-coated high strength copper alloy (ISO 001 and 002 sizes, and AWG 28 inclusive)
Insulation	Double layer: Engineered fluoropolymer + polyimide
Outer Jacket (shielded constructions only)	Double layer: Engineered fluoropolymer + polyimide
Bend Radius (single)	6 x OD
Temperature Range (°C)	-200 to +200
Radiation Resistance (Mrad) (minimum)	30

STRIPPING TOOL

Gore offers cutting blades to fit the Ideal Industries, Inc., Custom Stripmaster® Tool from Ideal Industries Inc. (Figure 1). The blades are designed specifically for GORE® Space Cables, Type CSC to ensure repeatable and dependable results.

Figure 1: Custom Stripmaster® Tool





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PRODUCT SPECIFICATIONS

GORE® Space Cables, Type CSC are available in the following variants in accordance with ISO 2635, and AWG sizes are given for reference (Table 2).

TABLE 2: TYPE CSC VARIANTS

Variant No.	Shielded	No. of Cores	Wire Size ISO/ (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	–	–	0.62	1.14
02	No	1	001/(26)	19 x 0.100	0.47	0.15	157	–	–	0.73	1.63
03	No	1	002/(24)	19 x 0.120	0.58	0.25	111	–	–	0.83	2.30
04	No	1	004/(22)	19 x 0.150	0.76	0.40	58	–	–	1.00	3.70
05	No	1	006/(20)	19 x 0.200	0.99	0.60	32	–	–	1.25	6.25
06	No	1	012/(16)	19 x 0.300	1.49	1.20	14	–	–	1.80	12.98
07	No	2	001/(26)	19 x 0.100	0.47	0.15	170	–	0.78	1.49	3.50
08	No	2	002/(24)	19 x 0.120	0.58	0.25	120	–	0.90	1.80	4.90
09	No	2	004/(22)	19 x 0.150	0.76	0.40	63	–	1.10	2.20	7.60
10	No	2	006/(20)	19 x 0.200	0.99	0.60	35	–	1.26	2.50	12.70
11	Yes	2	--/(28)	7 x 0.127	0.39	0.09	258	0.079	0.75	1.70	5.60
12	Yes	2	001/(26)	19 x 0.100	0.47	0.15	170	0.079	0.78	1.80	6.90
13	Yes	2	002/(24)	19 x 0.120	0.58	0.25	120	0.079	0.90	2.15	8.50
14	Yes	2	004/(22)	19 x 0.150	0.76	0.40	63	0.079	1.10	2.40	12.20
15	Yes	2	006/(20)	19 x 0.200	0.99	0.60	35	0.079	1.26	2.95	18.50
16	Yes	3	--/(28)	7 x 0.127	0.39	0.09	259	0.079	0.75	1.80	7.50
17	Yes	3	001/(26)	19 x 0.100	0.47	0.15	171	0.079	0.78	1.95	8.80
18	Yes	3	002/(24)	19 x 0.120	0.58	0.25	121	0.079	0.90	2.30	11.30
19	Yes	4	--/(28)	7 x 0.127	0.39	0.09	260	0.079	0.75	2.00	9.30
20	Yes	4	001/(26)	19 x 0.100	0.47	0.15	171	0.079	0.78	2.20	11.10
21	Yes	4	002/(24)	19 x 0.120	0.58	0.25	122	0.079	0.90	2.40	14.30

NOTICE — USE RESTRICTIONS APPLY

Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

