



JASO D 611 Japanese Automotive Harness Wires

CIVUS

Automotive Wire

60 V DC compressed-conductor ultra-thin-wall (0.20 mm) PVC ECU harness wire
(0.13–0.5 mm²)



60 V DC Ultra-Thin 0.20 mm

Compressed Cu Conductor

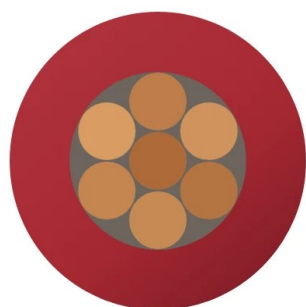
0.13 to 0.50 mm²

Application

CIVUS (Compressed Conductor, Polyvinyl Chloride Insulated, Ultra-Thin-Wall Cable) combines a die-compressed 7-strand annealed copper conductor with a high-modulus 0.20 mm ultra-thin hard-grade PVC insulation wall. Rated -40 °C to +85 °C (with +105 °C CHFUS/CIV)

Typical uses: High-density ECU & BCM looms, ADAS & infotainment harnesses, Instrument cluster & cockpit, Hybrid & EV low-voltage BMS signals, Door & mirror control modules

Construction



Cross-section, not to scale

- 1 Compressed 7-strand copper
- 2 0.20 mm ultra-thin hard-PVC
- 3 Precision micro-seal outer surface

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Technical data

Typical values

Rated voltage	60 V DC / 25 V AC	AC dielectric withstand	1.0 kV rms for 1 minute
In-line spark test	3.0 kV AC rms	Continuous operating temperature	-40 °C to +85 °C (+105 °C Class B option)
Cold winding test	-40 °C mandrel winding without insulation cracking	Nominal wall thickness	0.20 mm (min. 0.16 mm at any point)
Conductor compression ratio	≈88–92 % fill factor (smooth outer cylinder)	Tensile breaking force (0.13 mm ²)	≥35 N (annealed Cu) · ≥55 N (CuSn alloy)
Needle & blade scrape abrasion	High-modulus hard-PVC passes JASO D 611 / ISO 6722-1 scrape tests despite 0.20 mm wall	Flame retardancy	Self-extinguishes within 15 s in JASO horizontal flame test
Standards	JASO D 611 & ISO 6722-1 Ultra-Thin-Wall		

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Designation	Size & Alloy	Cond. Ø / Wall mm	Max. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
CIVUS size range 12 sizes						
☐ CIVUS 0.13 mm ² (Cu)	0.13 mm ² Cu	0.45 Ø · 0.20 mm	0.95	1.2	2.0	3.8
☐ CIVUS 0.13 mm ² (CuSn Alloy)	0.13 mm ² CuSn	0.45 Ø · 0.20 mm	0.95	1.2	2.0	3.8
☐ CIVUS 0.22 mm ² (Cu)	0.22 mm ² Cu	0.58 Ø · 0.20 mm	1.05	2.0	3.0	4.2
☐ CIVUS 0.22 mm ² (CuSn Alloy)	0.22 mm ² CuSn	0.58 Ø · 0.20 mm	1.05	2.0	3.0	4.2
☐ CIVUS 0.35 mm ² (Cu)	0.35 mm ² Cu	0.70 Ø · 0.20 mm	1.20	3.1	4.3	4.8
☐ CIVUS 0.50 mm ² (Cu)	0.50 mm ² Cu	0.85 Ø · 0.20 mm	1.35	4.5	6.0	5.4
☐ CIVUS 0.75 mm ² (Cu)	0.75 mm ² Cu	1.04 Ø · 0.20 mm	1.55	6.8	8.6	6.2
☐ CIVUS-B 0.13 mm ² (+105 °C)	0.13 mm ² +105 °C	0.45 Ø · 0.20 mm	0.95	1.2	2.0	3.8
☐ CIVUS-B 0.22 mm ² (+105 °C)	0.22 mm ² +105 °C	0.58 Ø · 0.20 mm	1.05	2.0	3.0	4.2
☐ CIVUS-B 0.35 mm ² (+105 °C)	0.35 mm ² +105 °C	0.70 Ø · 0.20 mm	1.20	3.1	4.3	4.8
☐ CIVUS-B 0.50 mm ² (+105 °C)	0.50 mm ² +105 °C	0.85 Ø · 0.20 mm	1.35	4.5	6.0	5.4
☐ CIVUS-Twisted 2×0.13 mm ²	2×0.13 mm ² CAN Pair	0.45 Ø · 0.20 mm	1.90	2.5	4.1	7.6

– Dimensions and maximum overall diameters conform to JASO D 611 / ISO 6722-1.

Electrical data

12 sizes

Size & Alloy	Max. DC R @ 20 °C mΩ/m	Single wire in air A	In harness bundle A
0.13 mm ² Cu	136.00	4	3
0.13 mm ² CuSn	162.00	3	2
0.22 mm ² Cu	84.40	6	5
0.22 mm ² CuSn	98.00	5	4
0.35 mm ² Cu	54.40	8	6
0.50 mm ² Cu	37.10	11	9
0.75 mm ² Cu	24.70	14	11
0.13 mm ² +105 °C	136.00	4	3
0.22 mm ² +105 °C	84.40	6	5
0.35 mm ² +105 °C	54.40	8	6
0.50 mm ² +105 °C	37.10	11	9
2×0.13 mm ² CAN Pair	136.00	4	3

– Current ratings are reference values at +25 °C ambient; derate for multi-wire harness bundles and elevated engine-bay temperatures.

Standards and approvals

- ✓ JASO D 611 Ultra-Thin-Wall
- ✓ ISO 6722-1 Class A / B
- ✓ Yazaki / Toyota / Nissan / Honda Harness Specs
- ✓ ELV & RoHS 3 Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

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Web

tebaoflex.com/cables/civus-automotive-wire



Typical values for this cable type, based on JASO D 611 / ISO 6722-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.