



JASO D 611 Japanese Automotive Harness Wires

AV / AVS / AVSS

AV/AVS/AVSS Automotive Wire

60 V DC JASO D 611 standard (AV), thin (AVS) & extra-thin (AVSS) PVC automotive wire



60 V DC JASO D 611

AV / AVS / AVSS (0.3 mm)

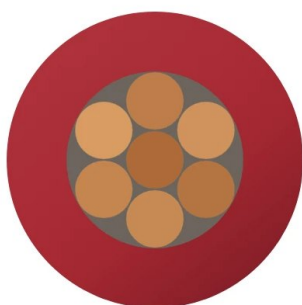
-40 to +80 °C (Class A)

Application

AV, AVS and AVSS are Japanese automotive low-voltage primary harness wires governed by JASO D 611 (and JIS C 3406), rated -40 °C to +80 °C (ISO Class A). They progress from standard-wall AV (0.6–0.8 mm wall) to thin-wall AVS (0.5 mm wall) and extra-thin-wall A

Typical uses: Japanese OEM passenger cars, Motorcycles & powersports, Excavators & construction plant, Forklifts & material handling, Marine & outboard harnesses

Construction



Cross-section, not to scale

1	Annealed bare copper conductor	JASO D 611
2	JASO D 611 lead-free PVC	JASO D 611
3	Colour-coded / tracer outer skin	JASO D 611

Technical data

Typical values

Rated voltage	60 V DC / 25 V AC	AC dielectric withstand	1.0 kV rms for 1 min (AVSS/AVS) · 2.0 kV rms (AV)
Spark test voltage	3.0 kV (AVSS) · 5.0 kV (AVS / AV)	Continuous operating range	-40 °C to +80 °C (JASO D 611 Class A)
Low-temperature winding	-40 °C cold winding test without cracking	Wall thickness @ 0.5 mm ²	AV: 0.60 mm (2.2 mm OD) · AVS: 0.50 mm (2.0 mm OD) · AVSS: 0.30 mm (1.6 mm OD)
Scrape & tape abrasion	Meets JASO D 611 blade-scrape cycle requirements	Flame propagation	Extinguishes within 15 s (AVSS/AVS) or 30 s (AV) in JASO horizontal flame test
Oil immersion	JIS K 2215 / IRM 902 oil immersion at +50 °C	Standards	JASO D 611 & JIS C 3406

Sizes

14 standard constructions

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

Designation	JASO Type & Size	Strands / Wall mm	Max. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
AV / AVS / AVSS size range 14 sizes						
☐ AVSS 0.3f	AVSS 0.3f mm ²	19/0.16 · 0.30 mm	1.40	3.4	4.9	5.6
☐ AVSS 0.5f	AVSS 0.5f mm ²	19/0.19 · 0.30 mm	1.60	4.8	6.6	6.4
☐ AVSS 0.5	AVSS 0.5 mm ²	7/0.32 · 0.30 mm	1.60	5.0	6.8	6.4
☐ AVSS 0.85	AVSS 0.85 mm ²	19/0.24 · 0.30 mm	1.80	7.7	9.8	7.2
☐ AVSS 1.25f	AVSS 1.25f mm ²	37/0.21 · 0.30 mm	2.10	11.4	14.0	8.4
☐ AVSS 1.25	AVSS 1.25 mm ²	19/0.29 · 0.30 mm	2.10	11.2	13.8	8.4
☐ AVSS 2.0	AVSS 2.0 mm ²	37/0.26 · 0.40 mm	2.60	17.5	21.8	10.4
☐ AVS 0.5	AVS 0.5 mm ²	7/0.32 · 0.50 mm	2.00	5.0	8.2	8.0
☐ AVS 0.85	AVS 0.85 mm ²	11/0.32 · 0.50 mm	2.20	7.9	11.5	8.8
☐ AVS 1.25	AVS 1.25 mm ²	16/0.32 · 0.50 mm	2.50	11.5	15.8	10.0
☐ AVS 2.0	AVS 2.0 mm ²	26/0.32 · 0.50 mm	2.90	18.7	24.0	11.6
☐ AVS 3.0	AVS 3.0 mm ²	41/0.32 · 0.60 mm	3.60	29.5	37.5	14.4
☐ AVS 5.0	AVS 5.0 mm ²	65/0.32 · 0.70 mm	4.40	46.8	58.0	17.6
☐ AV 8.0	AV 8.0 mm ²	50/0.45 · 0.90 mm	5.50	71.0	88.5	22.0

– Dimensions and maximum overall diameters conform to JASO D 611 / JIS C 3406.

Electrical data

14 sizes

JASO Type & Size	Max. DC R @ 20 °C mΩ/m	Single wire in air A	In harness bundle A
AVSS 0.3f mm ²	48.80	8	6
AVSS 0.5f mm ²	34.60	11	9
AVSS 0.5 mm ²	32.70	11	9
AVSS 0.85 mm ²	20.80	15	12
AVSS 1.25f mm ²	14.30	19	15
AVSS 1.25 mm ²	14.60	19	15
AVSS 2.0 mm ²	9.50	26	20
AVS 0.5 mm ²	32.70	11	9
AVS 0.85 mm ²	20.80	15	12
AVS 1.25 mm ²	14.30	19	15
AVS 2.0 mm ²	8.81	26	20

JASO Type & Size	Max. DC R @ 20 °C mΩ/m	Single wire in air A	In harness bundle A
AVS 3.0 mm ²	5.59	35	27
AVS 5.0 mm ²	3.52	48	37
AV 8.0 mm ²	2.32	64	50

– 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 (AV / AVS / AVSS)

✓ JIS C 3406

✓ ISO 6722-1 Class A

✓ 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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Typical values for this cable type, based on JASO D 611 / JIS C 3406. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.