



DIN 72551 / ISO 6722 / LV 112 Reduced-Wall (FLR) Automotive Wires

FLRYWd

Automotive Wire

60 V DC ISO 6722-1 Class C (-40 to +125 °C) extra-thin-wall ('d' = 0.16 mm min.)
heat-resi



60 V DC ISO 6722-1 Class C

Extra-Thin-Wall 'd' (0.16 mm min.)

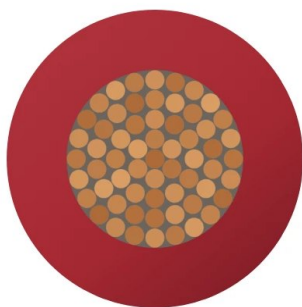
-40 to +125 °C Heat-Resistant PVC

Application

FLRYWd combines ISO 6722-1 Class C (-40 °C to +125 °C) heat-resistant PVC ('YW') with an extra-thin ('d' = dünnwandig, 0.20 mm nominal / 0.16 mm minimum) insulation wall. Engineered for high-density engine-control and cockpit micro-connectors, it trims outer d

Typical uses: Powertrain & engine ECU looms, Transmission & mechatronic harnesses, Matrix LED headlamp modules, EV battery management (BMS) sense leads, Cockpit & ADAS domain controllers

Construction



Cross-section, not to scale

1	Concentric / compressed Cu-ETP1 (or CuSn)	ISO 6722-1
2	Extra-thin Class C YW PVC ('d' wall)	ISO 6722-1
3	Micro-seal outer finish	LV 112

Technical data

Typical values

Nominal voltage	60 V DC / 25 V AC	Wet dielectric test	1.0 kV AC rms (<0.5 mm ²) · 3.0 kV (≥0.5 mm ²)
In-line spark test	3.0 kV (<0.5 mm ²) · 5.0 kV (≥0.5 mm ²)	Thermal class	ISO 6722-1 Class C: -40 °C to +125 °C (3000 h)
Short-term ageing & overload	240 h at +150 °C · 6 h at +175 °C	Cold winding	-40 °C for 4 hours without cracking
Wall thickness ('d' extra-thin)	0.20 mm nominal (0.16 mm minimum) for 0.13–0.50 mm ²	Needle & blade scrape resistance	High-Shore-hardness YW compound meets ISO 6722-1 ultra-thin-wall abrasion
Flame propagation	Self-extinguishes within 70 s per ISO 6722-1	Fluid compatibility	Resistant to engine oil, fuel, ATF, coolant & brake fluid
Standards	ISO 6722-1 Class C Ultra-Thin-Wall & VDA LV 112		

Sizes

10 standard constructions

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

Designation	Size & Conductor	Strands / Wall mm	Max. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
FLRYWd size range 10 sizes						
☐ FLRYWd 0.13 mm ² (Cu)	0.13 mm ² Cu	7×0.16 · 0.20 mm	0.95	1.2	2.0	3.8
☐ FLRYWd 0.13 mm ² (CuSn)	0.13 mm ² CuSn	7×0.16 · 0.20 mm	0.95	1.2	2.0	3.8
☐ FLRYWd 0.22 mm ²	0.22 mm ² Type A	7×0.21 · 0.20 mm	1.05	2.1	3.0	4.2
☐ FLRYWd 0.35 mm ²	0.35 mm ² Type A	7×0.26 · 0.20 mm	1.20	3.3	4.3	4.8
☐ FLRYWd 0.50 mm ²	0.50 mm ² Type A	19×0.19 · 0.20 mm	1.40	4.8	6.2	5.6
☐ FLRYWd 0.75 mm ²	0.75 mm ² Type A	19×0.23 · 0.20 mm	1.65	7.2	8.9	6.6
☐ FLRYWd 1.00 mm ²	1.00 mm ² Type A	19×0.26 · 0.22 mm	1.90	9.6	11.7	7.6
☐ FLRYWd 1.50 mm ²	1.50 mm ² Type A	19×0.32 · 0.22 mm	2.25	14.4	17.0	9.0
☐ FLRYWd 2×0.13 Twisted	2×0.13 mm ² Pair	7×0.16 · 0.20 mm	1.90	2.5	4.1	7.6
☐ FLRYWd 2×0.35 Twisted	2×0.35 mm ² Pair	7×0.26 · 0.20 mm	2.40	6.6	8.7	9.6

– Dimensions and maximum overall diameters conform to ISO 6722-1 Class C / LV 112 Ultra-Thin-Wall.

Electrical data

10 sizes

Size & Conductor	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 Type A	84.80	6	5
0.35 mm ² Type A	54.40	9	7
0.50 mm ² Type A	37.10	12	9
0.75 mm ² Type A	24.70	17	13
1.00 mm ² Type A	18.50	21	16
1.50 mm ² Type A	12.70	27	21
2×0.13 mm ² Pair	136.00	4	3
2×0.35 mm ² Pair	54.40	8	6

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

Standards and approvals

- ✓ ISO 6722-1 Class C Ultra-Thin-Wall
- ✓ VDA LV 112
- ✓ DIN 72551
- ✓ RoHS 3 & ELV 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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/flrywd-automotive-wire



Typical values for this cable type, based on ISO 6722-1 Class C / LV 112 Ultra-Thin-Wall. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.