



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

FLRY-A / FLRY-B

FLRY-A/FLRY-B Automotive Wire

60 V DC ISO 6722-1 Class B (-40 to +105 °C) reduced-wall PVC wire (Type A concentric / Typ



60 V DC ISO 6722-1

Class B (-40 to +105 °C)

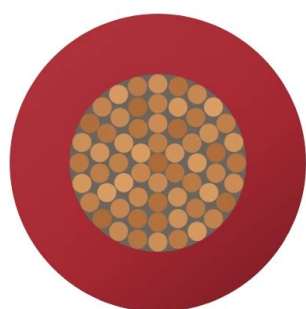
Type A Concentric / Type B Bunched

Application

FLRY-A and FLRY-B are the foundational European automotive low-voltage harness wires per DIN 72551-6, ISO 6722-1 Class B and VDA LV 112. Rated for 60 V DC and -40 °C to +105 °C continuous operation with lead-free reduced-wall plasticized PVC insulation ('FLR')

Typical uses: European OEM passenger cars, Commercial trucks & buses (24 V), Agricultural & construction cabs, Motorcycle & EV 12V sub-systems, Industrial control box wiring

Construction



Cross-section, not to scale

1	Cu-ETP1 bare copper (Type A or B)	ISO 6722-1
2	Reduced-wall Class B PVC (Y)	ISO 6722-1
3	Smooth colour/stripe outer surface	DIN 72551-6

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 for 5 min)
In-line spark test	3.0 kV (<0.5 mm ²) · 5.0 kV (≥0.5 mm ²)	Thermal class	ISO 6722-1 Class B: -40 °C to +105 °C (3000 h)
Short-term thermal ageing	240 hours at +130 °C · 6 hours thermal overload at +155 °C	Cold winding test	-40 °C for 4 hours without cracking
Min. wall thickness (0.35 / 0.5 / 0.75 mm ²)	0.20 mm (0.35–0.5 mm ²) · 0.24 mm (0.75–1.5 mm ²)	Needle & sandpaper abrasion	Complies with ISO 6722-1 / LV 112 reduced-wall abrasion cycles
Flame propagation	45° burn test: self-extinguishes within 70 s (50 mm unburned)	Fluid compatibility	Gasoline, diesel, motor oil, ATF, brake fluid & battery acid per ISO 6722-1
Standards	ISO 6722-1 Class B, DIN 72551-6 & VDA LV 112		

Sizes

16 standard constructions

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

Designation	Type & Size mm ²	Strands × Ø / Max OD	Max. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
FLRY-A / FLRY-B size range 16 sizes						
☐ FLRY-A 0.22 mm ²	0.22 mm ² Type A	7×0.21 · Wall 0.20	1.20	2.1	3.3	4.8
☐ FLRY-A 0.35 mm ²	0.35 mm ² Type A	7×0.26 · Wall 0.20	1.30	3.3	4.5	5.2
☐ FLRY-B 0.35 mm ²	0.35 mm ² Type B	12×0.21 · Wall 0.20	1.40	3.3	4.7	5.6
☐ FLRY-A 0.50 mm ²	0.50 mm ² Type A	19×0.19 · Wall 0.22	1.60	4.8	6.6	6.4
☐ FLRY-B 0.50 mm ²	0.50 mm ² Type B	16×0.21 · Wall 0.22	1.60	4.8	6.6	6.4
☐ FLRY-A 0.75 mm ²	0.75 mm ² Type A	19×0.23 · Wall 0.24	1.90	7.2	9.5	7.6
☐ FLRY-B 0.75 mm ²	0.75 mm ² Type B	24×0.21 · Wall 0.24	1.90	7.2	9.5	7.6
☐ FLRY-A 1.00 mm ²	1.00 mm ² Type A	19×0.26 · Wall 0.24	2.10	9.6	12.2	8.4
☐ FLRY-B 1.00 mm ²	1.00 mm ² Type B	32×0.21 · Wall 0.24	2.10	9.6	12.2	8.4
☐ FLRY-A 1.50 mm ²	1.50 mm ² Type A	19×0.32 · Wall 0.24	2.40	14.4	17.5	9.6
☐ FLRY-B 1.50 mm ²	1.50 mm ² Type B	30×0.26 · Wall 0.24	2.40	14.4	17.5	9.6
☐ FLRY-B 2.50 mm ²	2.50 mm ² Type B	50×0.26 · Wall 0.28	3.00	24.0	28.5	12.0
☐ FLRY-B 4.00 mm ²	4.00 mm ² Type B	56×0.31 · Wall 0.32	3.70	38.4	44.5	14.8
☐ FLRY-B 6.00 mm ²	6.00 mm ² Type B	84×0.31 · Wall 0.32	4.30	57.6	65.0	17.2
☐ FLRY-B 10.0 mm ²	10.0 mm ² Type B	80×0.41 · Wall 0.48	6.00	96.0	109.0	24.0
☐ FLRY-B 16.0 mm ²	16.0 mm ² Type B	126×0.41 · Wall 0.52	7.20	153.6	172.0	28.8

– Dimensions and maximum overall diameters conform to ISO 6722-1 Class B / DIN 72551-6 / LV 112.

Electrical data

16 sizes

Type & Size mm ²	Max. DC R @ 20 °C mΩ/m	Single wire in air A	In harness bundle A
0.22 mm ² Type A	84.80	6	5
0.35 mm ² Type A	54.40	9	7
0.35 mm ² Type B	54.40	9	7
0.50 mm ² Type A	37.10	12	9
0.50 mm ² Type B	37.10	12	9
0.75 mm ² Type A	24.70	16	12
0.75 mm ² Type B	24.70	16	12
1.00 mm ² Type A	18.50	20	16

Type & Size mm ²	Max. DC R @ 20 °C mΩ/m	Single wire in air A	In harness bundle A
1.00 mm ² Type B	18.50	20	16
1.50 mm ² Type A	12.70	25	20
1.50 mm ² Type B	12.70	25	20
2.50 mm ² Type B	7.60	34	27
4.00 mm ² Type B	4.71	45	35
6.00 mm ² Type B	3.14	58	45
10.0 mm ² Type B	1.82	80	62
16.0 mm ² Type B	1.16	108	84

– 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 B (+105 °C)
- ✓ DIN 72551-6
- ✓ VDA LV 112
- ✓ VW 60306 / BMW GS 95007 / MB DBL 6312
- ✓ 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

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/flry-a-flry-b-automotive-wire



Typical values for this cable type, based on ISO 6722-1 Class B / DIN 72551-6 / LV 112. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.