



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

FLRYK

Automotive Wire

60 V DC cold-flexible (-50 to +105 °C) reduced-wall PVC automotive wire for arctic & flexi



60 V DC ISO 6722-1

Arctic Cold-Flex (-50 to +105 °C)

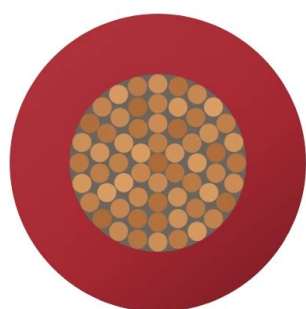
Reduced-Wall Kälte-PVC (YK)

Application

FLRYK ('YK' = Kälteflexibles PVC) is a cold-flexible reduced-wall automotive primary wire engineered to extend low-temperature flexibility down to -50 °C while maintaining ISO 6722-1 Class B (+105 °C) continuous thermal rating. Formulated with low-temperature

Typical uses: Arctic & Nordic trucks/buses, Door & liftgate flex grommets, Cold-chain refrigerated trailers, Snow-clearing & municipal plant, Outdoor chassis & ABS jumpers

Construction



Cross-section, not to scale

1	Cu-ETP1 bare copper (Type A or B)	ISO 6722-1
2	Cold-flexible PVC insulation (YK)	ISO 6722-1
3	Low-friction colour/stripe surface	DIN 72551

Technical data

Typical values

Nominal voltage	60 V DC / 25 V AC	Wet dielectric test	3.0 kV AC rms for 5 min ($\geq 0.5 \text{ mm}^2$) · 1.0 kV ($< 0.5 \text{ mm}^2$)
Spark test	5.0 kV AC rms ($\geq 0.5 \text{ mm}^2$)	Continuous temperature range	-50 °C to +105 °C (3000 h)
Arctic cold winding test	-50 °C for 4 hours on mandrel without cracking and 1 kV dielectric pass	Short-term heat ageing	240 hours at +130 °C
Min. wall thickness	0.20 mm (0.35–0.5 mm ²) · 0.24 mm (0.75–1.5 mm ²) · 0.28 mm (2.5 mm ²)	Scrape & sandpaper abrasion	Complies with ISO 6722-1 reduced-wall abrasion cycles
Flame propagation	Self-extinguishes within 70 s per ISO 6722-1 45° burn test	De-icing salt & fluid resistance	Resists CaCl ₂ /NaCl road brine, diesel, oil, glycol coolant & washer fluid
Standards	ISO 6722-1 Class B (with -50 °C cold option) & DIN 72551		

Sizes

10 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 / Wall mm	Max. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
FLRYK size range 10 sizes						
☐ FLRYK 0.35 mm ²	0.35 mm ²	12×0.21 · 0.20 mm	1.35	3.3	4.6	5.4
☐ FLRYK 0.50 mm ²	0.50 mm ²	16×0.21 · 0.22 mm	1.60	4.8	6.6	6.4
☐ FLRYK 0.75 mm ²	0.75 mm ²	24×0.21 · 0.24 mm	1.90	7.2	9.5	7.6
☐ FLRYK 1.00 mm ²	1.00 mm ²	32×0.21 · 0.24 mm	2.10	9.6	12.2	8.4
☐ FLRYK 1.50 mm ²	1.50 mm ²	30×0.26 · 0.24 mm	2.40	14.4	17.5	9.6
☐ FLRYK 2.50 mm ²	2.50 mm ²	50×0.26 · 0.28 mm	3.00	24.0	28.5	12.0
☐ FLRYK 4.00 mm ²	4.00 mm ²	56×0.31 · 0.32 mm	3.70	38.4	44.5	14.8
☐ FLRYK 6.00 mm ²	6.00 mm ²	84×0.31 · 0.32 mm	4.30	57.6	65.0	17.2
☐ FLRYK 10.0 mm ²	10.0 mm ²	80×0.41 · 0.48 mm	6.00	96.0	109.0	24.0
☐ FLRYK 16.0 mm ²	16.0 mm ²	126×0.41 · 0.52 mm	7.20	153.6	172.0	28.8

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

Electrical data

10 sizes

Type & Size mm ²	Max. DCR @ 20 °C mΩ/m	Single wire in air A	In harness bundle A
0.35 mm ²	54.40	9	7
0.50 mm ²	37.10	12	9
0.75 mm ²	24.70	16	12
1.00 mm ²	18.50	20	16
1.50 mm ²	12.70	25	20
2.50 mm ²	7.60	34	27
4.00 mm ²	4.71	45	35
6.00 mm ²	3.14	58	45
10.0 mm ²	1.82	80	62
16.0 mm ²	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 (-50 °C Extended Cold)
- ✓ DIN 72551
- ✓ VDA LV 112
- ✓ 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/flryk-automotive-wire



Typical values for this cable type, based on ISO 6722-1 Class B / DIN 72551 / 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.