



ISO 4141 / ISO 6722 Multicore Commercial Vehicle & Trailer Cables

FLRYDY

Automotive Cable

60 V DC EMC-screened automotive sensor, CAN/LIN & audio cable (FLRY cores + Cu screen 'D')



60 V DC EMC Screened

FLRY Cores + Cu Screen 'D' + PVC Sheath

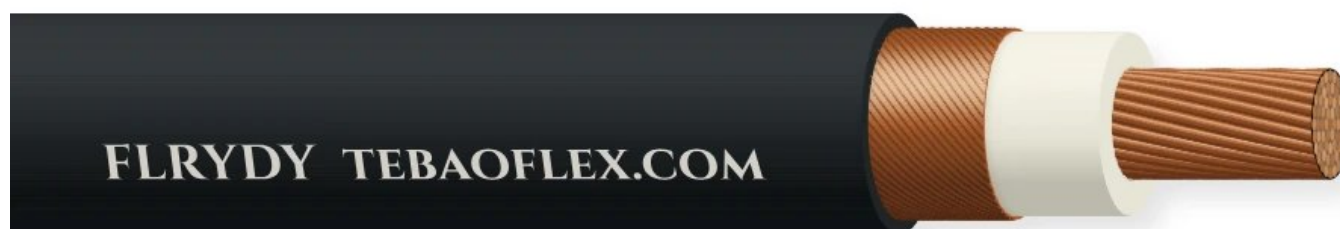
1 to 8 Cores (0.22–1.5 mm²)

Application

FLRYDY is a shielded low-voltage automotive sensor, actuator and communication cable per ISO 6722-1 and DIN 72551. Built from colour-coded FLRY reduced-wall PVC cores (1 to 8 cores, 0.22–1.5 mm²), an overall helically lapped or braided tinned/bare copper shield

Typical uses: Crankshaft & knock sensor leads, EV inverter-adjacent LV looms, Infotainment & microphone lines, Commercial truck tachograph & CAN, Agricultural & off-highway sensors

Construction



Cross-section, not to scale

1	Fine-stranded copper (FLRY)	ISO 6722-1
2	FLRY reduced-wall PVC core insulation	ISO 6722-1
3	Copper spiral or braid screen (D)	DIN 72551
4	Automotive PVC outer sheath (Y)	ISO 6722-1

Technical data

Typical values

Rated voltage	60 V DC / 25 V AC	Dielectric test (core-to-core & core-to-screen)	1.5 kV AC rms for 1 minute
Optical shield coverage	≥85 % copper spiral or braided screen	Continuous operating temperature	-40 °C to +105 °C (Class B)
Cold winding test	-40 °C mandrel wind without sheath or core cracking	Core lay-up	Short-pitch concentric twist (twisted pair on 2-core)
Minimum bending radius	6 × cable OD (static) · 10 × cable OD (flexing)	Flame propagation	Self-extinguishing per ISO 6722-1 45° burn test
Fluid & oil resistance	Resists motor oil, diesel, gasoline, brake fluid & coolant per ISO 6722-1	Standards	ISO 6722-1, DIN 72551 & VDA LV 112

Sizes

13 standard constructions

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

Designation	Cores × Size mm ²	Screen Ø / Core OD	Max. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
FLRYDY size range 13 sizes						
☐ FLRYDY 1×0.35	1 × 0.35 mm ² Coax	0.10 Cu · 1.30 mm	2.60	7.8	13.5	15.6
☐ FLRYDY 1×0.50	1 × 0.50 mm ² Coax	0.10 Cu · 1.60 mm	2.90	10.2	17.0	17.4
☐ FLRYDY 2×0.22	2 × 0.22 mm ² Pair	0.10 Cu · 1.20 mm	3.60	10.5	20.0	21.6
☐ FLRYDY 2×0.35	2 × 0.35 mm ² Pair	0.10 Cu · 1.30 mm	3.90	13.8	25.0	23.4
☐ FLRYDY 2×0.50	2 × 0.50 mm ² Pair	0.12 Cu · 1.60 mm	4.50	18.2	33.0	27.0
☐ FLRYDY 2×0.75	2 × 0.75 mm ² Pair	0.12 Cu · 1.90 mm	5.20	24.5	43.0	31.2
☐ FLRYDY 2×1.00	2 × 1.00 mm ² Pair	0.12 Cu · 2.10 mm	5.70	30.5	52.0	34.2
☐ FLRYDY 3×0.35	3 × 0.35 mm ²	0.10 Cu · 1.30 mm	4.20	17.8	30.0	25.2
☐ FLRYDY 3×0.50	3 × 0.50 mm ²	0.12 Cu · 1.60 mm	4.80	23.8	40.0	28.8
☐ FLRYDY 3×0.75	3 × 0.75 mm ²	0.12 Cu · 1.90 mm	5.50	32.5	53.0	33.0
☐ FLRYDY 4×0.35	4 × 0.35 mm ²	0.10 Cu · 1.30 mm	4.60	22.0	37.0	27.6
☐ FLRYDY 4×0.50	4 × 0.50 mm ²	0.12 Cu · 1.60 mm	5.30	29.5	49.0	31.8
☐ FLRYDY 4×0.75	4 × 0.75 mm ²	0.12 Cu · 1.90 mm	6.10	40.8	65.0	36.6

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

Electrical data

13 sizes

Cores × Size mm ²	Max. DC R @ 20 °C mΩ/m	Single wire in air A	In harness bundle A
1 × 0.35 mm ² Coax	54.40	8	6
1 × 0.50 mm ² Coax	37.10	11	9
2 × 0.22 mm ² Pair	84.80	5	4
2 × 0.35 mm ² Pair	54.40	8	6
2 × 0.50 mm ² Pair	37.10	10	8
2 × 0.75 mm ² Pair	24.70	14	11
2 × 1.00 mm ² Pair	18.50	17	13
3 × 0.35 mm ²	54.40	7	5
3 × 0.50 mm ²	37.10	9	7
3 × 0.75 mm ²	24.70	13	10
4 × 0.35 mm ²	54.40	7	5
4 × 0.50 mm ²	37.10	9	7
4 × 0.75 mm ²	24.70	12	9

– 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
- ✓ DIN 72551 (FLRYDY)
- ✓ 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/flrydy-automotive-cable



Typical values for this cable type, based on ISO 6722-1 / DIN 72551 / LV 112. Values for your order are confirmed in the quotation. Subject to change without notice.
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