

**CHARACTER:**

**1.Physical performance**

a. Insulation detachability: The insulation should be able to completely detach at least 20mm section.

b. Insulation adhesion force: the force required to strip the remaining (50±1)mm insulation is within the limit value listed in the table.

mm <sup>2</sup>		0.35	0.5	0.75	1	1.5	2.5	4	6
Release force (N)	min	3	5		10		15		
	max	30	40		80		120		

Note: This verification is not done for models above 6.0mm2

c. Insulation wear-resisting strength: the number of times the insulation is worn out is at least equal to the value listed in the last row of the table.

mm <sup>2</sup>	0.35	0.5	0.75	1	1.5	2.5	4	6
Route mm	10±2							
Circulation min <sup>-1</sup>	50~60							
Speed	Accelerate or decelerate at a constant speed or by a sine wave							
Power N	7±0.05							
Period	200	300	350	500	1500			

Note: This verification is not done for models above 6.0mm2

d. Thermal shrinkage: the insulation can only shrink by 4% at most in the length direction, and cracks are not allowed.

e. low temperature impact test: -20±2℃, 1h, with 100g drop hammer from the height of 100mm impact sample, sample no damage.

**2.Electrical Properties**

a. rated temperature: 105℃ rated voltage: 50Vdc or 25Vac

b. 30 minutes withstand voltage test: no breakdown occurs when any test voltage is applied to the cable.

The sample was immersed in salt solution (1 liter solution containing (30±5)g NaCl) at room temperature for 4 hours, and the two ends of the sample should extend out of the liquid level. Then the test voltage of 1kV effective value (frequency 50 ~ 60Hz) sine waveform was applied between the conductor and the salt solution for 30 minutes. The voltage is then boosted at a rate of 0.5kV/s until it reaches 3kV(conductor nominal section < 0.5mm2) or 5kV(conductor nominal section ≥0.5mm2).

**3.Processing properties**

- a、Suitable for all conventional wire harness machining processes
- b、Please advise if you have special needs

**4.Environmental protection**

- a、ROHS/REACH compliant

**SHOULD BE USED:**

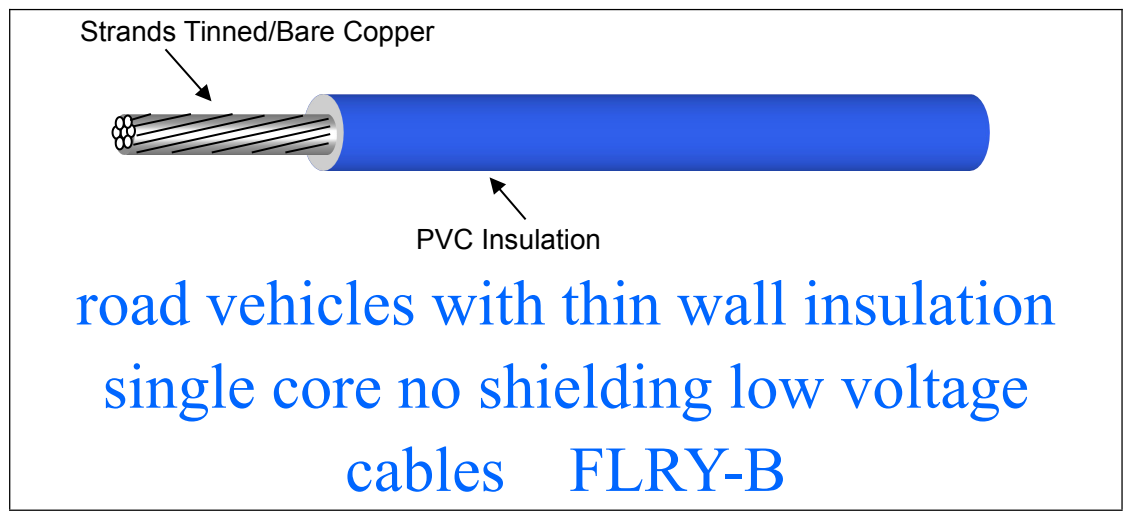
Suitable for thin-walled insulated single-core unshielded low-voltage cables for road vehicles

**REFERENCE:**

DIN 72551-6

**Outline:**

Internal installation of wires to prevent impact and sharp bending at high temperatures.



**Wire structure description:**

Conductor: Tinned /Bare copper ;  
Insulation materials: PVC Insulation

Ground vehicles with low voltage electric system primary cable  
Rated temperature: 105℃ rated voltage: 50Vac or 25Vdc

STYLE	mm2	Conductor size (No./ mm) ±0.005mm	Conductor Dia.(mm)	Conductor resistance 20℃ (Ω/Km)		insulation thickness (mm)	Overall diameter (mm)	
				Bare	tin.		Nom.	tolerance
FLRY-B	0.35	12/0.20	0.80	54.5	55.5	0.30	1.40	±0.20
	0.35	17/0.16	0.76	54.5	55.5	0.30	1.40	±0.20
	0.50	16/0.20	0.92	37.10	38.2	0.30	1.60	±0.20
	0.75	24/0.20	1.13	24.70	25.4	0.35	1.90	±0.20
	1.00	32/0.20	1.31	18.50	19.1	0.40	2.10	±0.20
	1.50	30/0.25	1.58	12.70	13.0	0.40	2.40	±0.20
	2.50	50/0.25	2.04	7.60	7.80	0.45	3.00	±0.30
	4.0	56/0.30	2.59	4.70	4.80	0.55	3.70	±0.30
	5.0	71/0.30	2.92	3.40	3.54	0.55	4.02	±0.30
	6.0	84/0.30	3.18	3.10	3.20	0.55	4.30	±0.30
	8.0	64/0.40	3.70	1.82	1.85	0.80	5.30	±0.30
	10.0	1/14/0.4+6/1 1/0.4	4.79	1.82	1.85	0.90	6.60	±0.30
	16.0	7/18/0.40	5.88	1.16	1.18	1.20	8.28	±0.30
	25.0	7/28/0.40	7.33	0.74	0.76	1.20	9.73	±0.30
	35.0	1/42/0.4+6/3 9/0.4	8.70	/	0.57	1.20	11.10	±0.30
50.0	396/0.4	9.55	/	0.44	1.30	12.15	±0.30	

**Marking:** FLRY-B NO mm2 -40-105℃ 50V PVC QIFURUI

**3F product code:**

eg: FLRY-B-03500-12G
FLRY-B, 0.35mm2, BLACK, 12/0.2, Bare

**SAE COLOR SERIES**

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

**PACKAGE**

*PACKAGE				
Part No.	Packing- Ft/roll			
0.35~1.0mm2	☐ 100M	☐ 200M	☐ 500M	■ 1000M
1.5~2.5mm2	☐ 100M	☐ 200M	■ 500M	☐ 1000M
4.0~6.00mm2	☐ 100M	■ 200M	☐ 500M	☐ 1000M
8.0-50.0mm2	■ 100M	☐ 200M	☐ 500M	☐ 1000M

According to customer requirements for packaging packaging

