

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.

导体标称截面 mm ²		0.35	0.5	0.75	1	1.5	2	2.5
剥离力 N	最小	3	5			10		
	最大	30	40			80		

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

d、 **Low temperature bending:** -40℃/4H, no crack on the surface of the sample is qualified

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

f、 **Flame retardancy:** The sample should maintain a tilt angle of 45°±1 with the vertical axis, and either end of the sample should be kept at a minimum distance of 100mm from the combustion chamber wall. Apply flame at a distance of (500±5) mm from the upper end of the insulation. If the conductor is seen, the flame can be removed. The burning insulating flame must be extinguished within 30 seconds after the flame is withdrawn.

2. Electrical Properties

a、 **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).

b、 **Spark test:** When passing through the test electrode, no breakdown occurs.

The spark test voltage is:

Conductor nominal cross-sectional area	Application voltage kv (rms)
<0.5	3
≥0.5	5

3. Processing properties

- a、 Using the hot extrusion processing
- b、 Can be twisted pair and multi-core
- c、 Good processing properties Harness
- d、 Harness processing process good compatibility
- e、 According to DIN standard design

4. Environmental protection

- a、 ROHS/REACH compliant

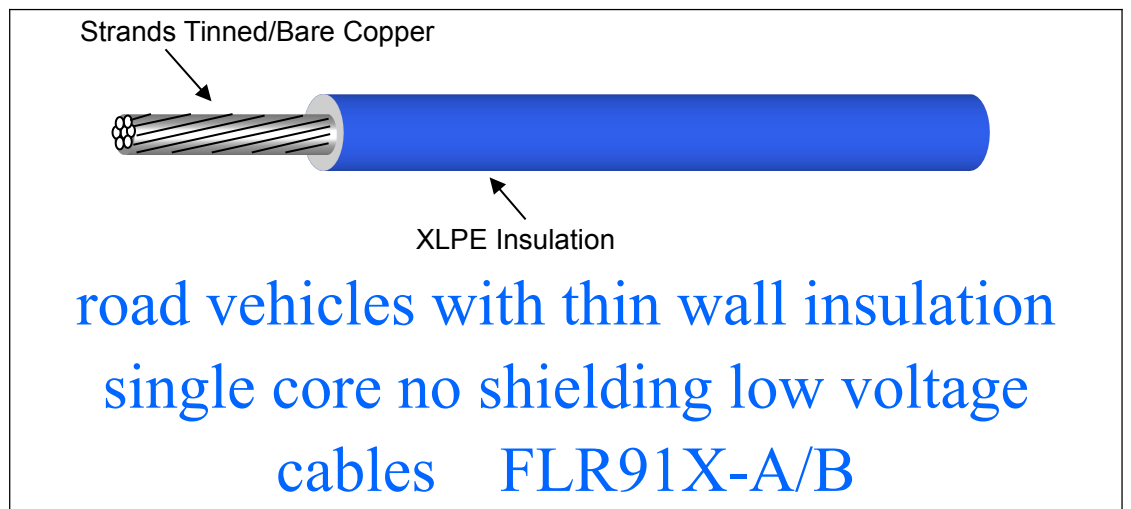
SHOULD BE USED:

Apply to road vehicles with thin wall insulation single core no shielding low voltage cables

REFERENCE:

DIN 72551-6, ISO6722

Outline:



Wire structure description:

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

Ground vehicles with low voltage electric system primary cable

Rated temperature: -40~150℃ rated voltage: 60V

STYLE	mm ²	Conductor size (No./ mm) ±0.005mm	Conductor Dia.(mm)	Conductor resistance 20℃ (Ω/Km)		insulation thickness (mm)		Overall diameter (mm)
				Bare	tin.	Nom.	Min.	
FLR91X-A	0.35	7/0.26	0.8	54.4	55.5	0.25	0.20	1.20-1.30
	0.50	19/0.19	1.0	37.1	38.5	0.30	0.22	1.40-1.60
	0.75	19/0.23	1.2	24.7	25.4	0.35	0.24	1.70-1.90
	1.00	19/0.26	1.35	18.5	19.1	0.35	0.24	1.90-2.10
	1.50	19/0.31	1.7	12.7	13.0	0.35	0.24	2.20-2.40
	2.00	19/0.37	2.0	9.42	9.69	0.40	0.28	2.50-2.80
	2.50	19/0.41	2.2	7.6	7.8	0.40	0.28	2.70-3.00
FLR91X-B	0.35	12/0.20	0.9	54.4	55.5	0.25	0.20	1.30-1.40
	0.50	16/0.20	1.0	37.1	38.5	0.30	0.22	1.40-1.60
	0.75	24/0.20	1.2	24.7	25.4	0.35	0.24	1.70-1.90
	1.00	32/0.20	1.35	18.5	19.1	0.35	0.24	1.90-2.10
	1.50	30/0.26	1.7	12.7	13.0	0.35	0.24	2.20-2.40
	2.00	37/0.26	2.0	9.42	9.69	0.40	0.28	2.50-2.80
	2.50	50/0.26	2.2	7.6	7.8	0.40	0.28	2.70-3.00
	4.00	56/0.30	2.75	4.7	4.8	0.50	0.32	3.40~3.70
6.00	84/0.30	3.30	3.1	3.2	0.50	0.32	4.00~4.30	

Marking: NO

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				3F
0.35~1.0mm ²	<input type="checkbox"/> 100M	<input type="checkbox"/> 200M	<input type="checkbox"/> 500M	<input checked="" type="checkbox"/> 1000M	
1.5~2.5mm ²	<input type="checkbox"/> 100M	<input type="checkbox"/> 200M	<input checked="" type="checkbox"/> 500M	<input type="checkbox"/> 1000M	

According to customer requirements for packaging packaging