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^2		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^2	0.35	0.5	0.75	1	1.5	2.5	4	6
Route mm	10±2							
Circulation min^{-1}	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：-40℃-125℃ rated voltage: 60Vdc 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:

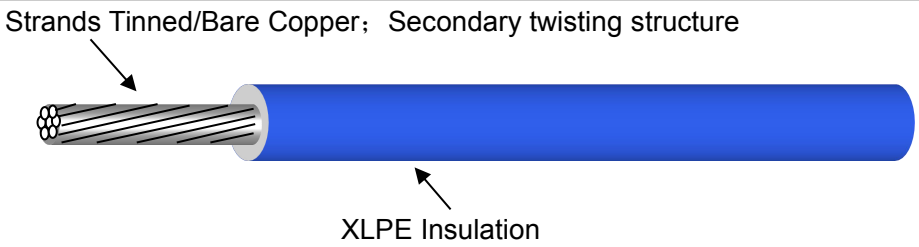
Ultra-thin wall insulated single-core unshielded low-voltage cable suitable for road vehicles

REFERENCE:

DIN 72551-6,ISO6722

Outline:

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



Ultra-thin wall insulated single-core unshielded low-voltage cable suitable for road vehicles FLU2X-A

Wire structure description:

Conductor: Tinned /Bare copper（Secondary twisting structure）

Insulation materials: XLPE Insulation

Ultra-thin wall insulated single-core unshielded low-voltage cable suitable for road vehicles

Rated temperature:-40℃-125℃ rated voltage: 60Vac 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.	MIN	Nom.
FLU2X-A	0.22	7/0.2	0.60	84.8	86.5	0.20	0.16	1.0±0.1
	0.35	7/0.254	0.76	52.0	54.5	0.20	0.16	1.15±0.1
	0.50	19/0.19	0.95	37.1	38.2	0.20	0.16	1.35±0.1
	0.75	19/0.235	1.15	24.7	25.4	0.20	0.16	1.55±0.1
	1.0	19/0.25	1.25	18.5	19.1	0.20	0.16	1.65±0.1
	1.5	19/0.32	1.60	12.7	13.0	0.20	0.16	2.00±0.1
	2.0	19/0.37	1.85	9.42	9.69	0.25	0.20	2.35±0.1
	2.5	19/0.41	2.05	7.6	7.80	0.25	0.20	2.55±0.1

Marking：NO

3F product code：

eg：FLU2X-A-03500-07G
FLU2X-A，0.35mm2，BLACK，7/0.254，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**				
0.22~1.0mm2	☐ **100M**	☐ **200M**	☐ **500M**	■ **1000M**	
1.5~2.5mm2	☐ **100M**	☐ **200M**	■ **500M**	☐ **1000M**	
According to customer requirements for packaging packaging					