



• Introduction

Compared to traditional cables, the Century-long Life Wires and Cables developed by Eastful Group offer superior performance, enhancing convenience for residents and businesses while promoting social progress, environmental protection, resource conservation, and sustainable development. This wire has the characteristics of heat resistance, waterproofing, moisture resistance, anti-aging, low smoke emission, non-toxicity, and non-corrosiveness. It also has strong overload capacity, making it suitable for use in high-end residential installations, high-rise buildings, public buildings, and design-oriented architecture.

• Process Flow

Conductor
Three-layer co-extruded insulation
Irradiation cross-linking
Laying up
Binding tape
Flame retardant polyolefin sheathing

• Characteristics

- 1.High Current-Carrying Capacity: Features low power loss and minimal heat generation.
- 2.Double Co-Extruded Structure: Provides excellent electrical insulation, waterproofing, and moisture resistance, preventing copper conductor oxidation, ensuring stable electrical performance, and enhancing aging resistance.
- 3.Safe Flame Retardancy: Non-corrosive and non-toxic even when burned, and it meets the requirements for non-extended combustion, with high open flames quickly extinguished.
- 4.Electronic Irradiation Crosslinking: Eliminates oil and water in the production process, preventing water tree formation and ensuring reliable electrical properties. The material's performance is enhanced post-crosslinking, allowing long-term operation at temperatures of 90°C, 105°C, or 125°C, with a maximum operating temperature of 250°C during short circuits (maximum duration of 5 seconds). The cable has a service life of over 70 years.
- 5.Long-Life Performance: Features low-smoke, halogen-free flame retardancy, non-toxicity, and high temperature resistance. Combustion does not release harmful gases or substances, preventing secondary pollution.

• Specification

*** This is customized product and can be designed according to customers' request.

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Advantage Comparison

Item	Century-long Life Cables	PVC Insulated Cables
Design Service Life	70 years	20 years
Process Technology	Two-layer co-extruded insulation, irradiated crosslinking	Ordinary extrusion
Working Temperature	125°C	70°C
Electrical Insulation Performance	Two-layer co-extruded, excellent electrical insulation properties	Single-layer insulation, average electrical insulation properties
Waterproof Performance	Excellent	General
Anti-Aging Performance	Superior, environmental, longer lifespan	Releases toxic gases upon combustion, causing serious environmental harm, prone to aging and shorter lifespan
Green Performance	Halogen-free, low smoke, eco-friendly, non-toxic, non-corrosive	Low price
Value	Complex process, moderate price	PVC insulated cable

● Technical Parameters

Nominal Cross Section Area	No. of Wires	Insulation Thickness	Overall Dia.	Max. D.C. Resistant at 20°C		Min. Insulation Resistant at 125°C
				Copper	Tinned Copper	
mm ²	-	mm	mm	Ω/km	Ω/km	MΩ·km
1.5	1	0.7	3.2	12.1	12.2	1.1
1.5(B)	7	0.7	3.3	12.1	12.2	1
2.5	1	0.8	3.9	7.41	7.56	1
2.5(B)	19	0.8	4.1	7.41	7.56	0.9
4	1	0.8	4.4	4.61	4.7	0.85
4(B)	19	0.8	4.8	4.61	4.7	0.77
6	1	0.8	5	3.08	3.11	0.7
6(B)	19	0.8	5.3	3.08	3.11	0.6
6	1	0.8	5	3.08	3.11	0.65
6	19	0.8	5.3	3.08	3.11	0.6