

10 KEY REASONS TO CHOOSE PVC CABLES







1. HIGH INSULATION VALUE

PVC provides excellent electrical insulation with high dielectric strength,

preventing electrical leakage and breakdown. Its resistance to moisture, chemicals, and UV radiation ensures reliability in both outdoor and industrial settings.



2. VERSATILITY OF FORMULATIONS

Due to its unique molecular structure, PVC has the widest range of applications in the

polymer family. Properties for PVC cable formulations include excellent flexibility, high insulation resistance, fire-retardancy, and ease of colouring.



3. PROCESSABILITY

PVC's low viscosity and wide processing window allow for easy extrusion and for

co-extrusion in multi-layer cables, ensuring consistent quality and high productivity for cable manufacturers.

4. RESISTANCE TO TEMPERATURE

PVC cables can withstand a wide range of temperatures, from -40 to 125 degrees

Celsius, making them suitable for use in demanding environments and climates.

5. RESISTANCE TO ATMOSPHERIC AGENTS AND HYDROCARBONS

PVC cables are durable against UV radiation, humidity, and various hydrocarbons like mineral oils and fuels, ensuring long-lasting performance in tough industrial and outdoor environments.



6. DURABILITY AND FLEXIBILITY

PVC cables can last up to 80 years. Due to their inherent flexibility, PVC cables for charging electronic devices rarely break.



7. FIRE RESISTANCE

PVC is difficult to ignite, has a moderate heat release and produces very little smoke. The PVC value chain is constantly engaged

in the research and development of new formulations to further enhance the fire performance of PVC cables.



8. COST EFFICIENCY

Showing equal or better performance than other materials, PVC cables are more costefficient throughout their entire life in use

and provide higher benefits when recycled.



9. RECYCLABILITY

PVC is a highly recyclable material. Through VinyIPlus, more than 1.7 million tonnes of PVC from cables have been

recycled since 2000, reducing CO_2 emissions and contributing to the circular economy. The PVC cable value chain is investing heavily in technologies to detect and separate end-of-life cables containing legacy additives and to extract these additives before recycling.



10. INNOVATION FOR THE FUTURE

PVC cables are constantly evolving, with ongoing R&D efforts focused on improving performance in areas like fire safety, sustainability, and recyclability. This innovation ensures that PVC remains a future-proof choice for cable applications in an everchanging world.





ABOUT PVC4CABLES

PVC4Cables is the ECVM value chain platform dedicated to PVC cables. It brings together the producers of PVC resins, stabilisers and plasticisers, PVC compounders and cable producers. Participation is also open to PVC recyclers and value chain's associations.

PVC4Cables intends to act as a driver for environmentally responsible innovations in the PVC cables sector and as a focal point for dialogue and communications with all stakeholders: regulators, specifiers, installers, electricians, media and the general public.

ECVM (the European Council of Vinyl Manufacturers) is the organisation representing seven leading European PVC resin manufacturers, accounting for about 85% of the PVC resin produced in Europe. As founding member of VinylPlus,[®] ECVM is committed to sustainable development, and to address and promote health, safety, and environmental best practices over the PVC lifecycle.









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