



Electrical cable solutions

PVC compounds for electrical cables

A range for all cable usages

With more than 40% of market share in the cable industry, PVC is one of the best materials to manage key functions like insulation. PVC is well adapted to meet the diverse properties required for various cables because it is easily modified with additives such as plasticizers, fillers, or lubricants. Durability, processing ease and fire resistance also number amongst PVC's key properties.

Given the variety of cables used for energy and data transmissions, many applications require specific, adapted compounds. BENVIC offers such versatile solutions through its ProVinyl and Linkflex (HFFR grades) ranges.

Thanks to decades of experience, BENVIC's ProVinyl offers an unrivalled ease of processing that enables manufacturers to optimize converter production .

General purpose cable for building low voltage for fire resistance and durability

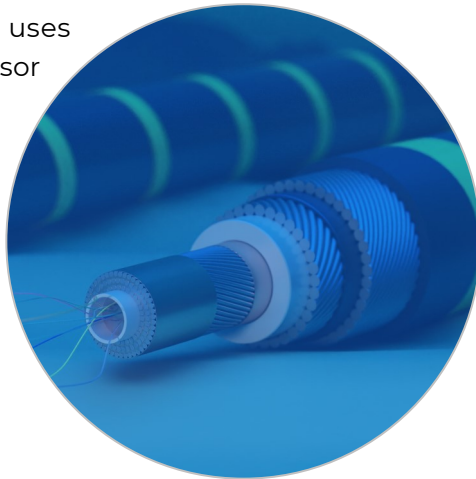


Datacom cable based on LAN coaxial and fiber optic to optimize transmission speeds

Industrial & utilities able to handle high electrical loads and deployed in harsh environments



Specific cables for targeted uses
inside umbilical , safety or sensor
cables



Adaptation Material is key for the different functions cables need to perform. A good material needs to exhibit several crucial properties to help create safe and efficient cables. It must provide sheathing to protect cables from external aggression, ensure a proper dielectric insulation between conductive elements and bedding, and also compensate free space inside cables to offer homogeneous mechanical properties.

**ProVinyl
contribution to
the
performance**

An adapted processability Material behavior determines the extrusion and co-extrusion processes required to manufacture specific cables. Our compounds have been designed to optimize the manufacturing parameters in order to provide perfect ease of handling.

Resistance to mechanical, climatic and chemical aggressions are key characteristics of our products, especially for industrial or utility cables deployed in harsh environments.

Special cable materials Aside from the usual functions, BENVIC has developed a set of specialty products in order to meet specific applications, such as negative thermal conductivity (NTC) compounds that avoid overheating or conductive compounds that manage ESD drain for ultra-low voltage or high reliability cables.

Key benefits



Flame retardant



Extreme temperature resistance



Oil resistance



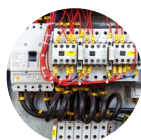
Hydrocarbon resistance



Hardness modulation



Anti migration with ABS, PP and PS



Building low voltage

Process	Main features or applications	Benefits	Certifications	Country of origin	Presentation
KG610/KG611 KG612/KG613	Extrusion	Sheathing General purpose		IT	Pellets
KG653/KG654	Extrusion	Sheathing Flame retardant		IT	Pellets
KG655	Extrusion	Sheathing Heavy duty		IT	Pellets
KI601/KI602	Extrusion	Insulation General purpose		IT	Pellets
KI655	Extrusion	Insulation Fire resistant		IT	Pellets
KAV/3CZ-27	Extrusion	Insulation High temperature resistant		PL	Pellets
KG707	Extrusion	Sheathing		SP	Pellets



Datacom and fiber optics

Process	Main features or applications	Benefits	Certifications	Country of origin	Presentation
KG711	Extrusion	Sheathing fiber optics		SP	Pellets
KG598	Extrusion	Sheathing fiber optics Flame retardant		SP	Pellets
KI725	Extrusion	Insulation copper datacom		SP	Pellets



Industrial and utilities cables

Presentation	Country of origin	Certifications	Benefits	Main features or applications	Process
Pellets	IT			Sheathing Chemical resistance	Extrusion
Pellets	IT			Sheathing High temperature resistance	Extrusion
Pellets	IT			Insulation High temperature resistance	Extrusion
Pellets	SP			Sheathing Chemical resistance	Extrusion



Specific cables

Presentation	Country of origin	Certifications	Benefits	Main features or applications	Process
Pellets	FR			Conductive ESD drain for special cables	Extrusion
Pellets	UK			Negative thermal coefficient Sensor wire	Extrusion
Pellets	UK			Umbilical cable	Extrusion

Support

As leading specialist of PVC compounding, BENVIC supports its customers during the whole production process, from design to manufacturing to after-sales services. For any support, please contact your closest BENVIC sales representative or consult our website at benvic.com.

Technical data sheets, processing recommendations and other supporting data are available upon demand. The information given here above is general commercial information, cannot be considered as a specification and can change without prior notice. Benvic also supports customers through continuous adaptation of its products: please contact your nearest sales representative for technical support.



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