

Linkflex HF series

Halogen Free Flame Retardant compounds



More solutions for cable compounds

Benvic is pleased to introduce the Linkflex HF series - offering products and cables that contain leading-edge halogen free and flame retardant (HFFR) and low smoke zero halogen (LSZH) properties.

Based on a polyolefin matrix, the Linkflex HF series complies with IEC60754-2 standard for low acidity emissions. Behaviour during fire exposure has been optimized to allow cables to meet EN 50575 standard classes from Eca up to B2ca with associated features such as low droplet generation.

Mechanical, chemical resistance and climatic characteristics have also been optimized to allow high level of flexibility and easiness of use for final users.

Particular care has been taken to optimize the key characteristics for cable processing, to make sure that the total cost for cable manufacturers remains efficient and under control.

The latest compounding processing techniques have also been chosen to make sure that product stability and quality are at optimum levels.

In addition, Benvic's engineering team provides technical support that can extend and adapt the properties of the Linkflex HF range for specific customer needs.

The Linkflex HF series complements Benvic's expertise in PVC compounds and reaffirms the company's expertise in productions for the building, construction, electrical and cable industries.



security



insulation



Applications



Building Benvic's Linkflex HF range is focused on building applications for low voltage applications. Different grades of Linkflex HF are able to cover standard 300/500V basic levels right up to the highest Construction Product Regulation (CPR) classifications.



DataCom Deployment of high speed internet and 5G wireless technology call for a range of cabling that is able to meet this application's specific needs. Linkflex HF grades are designed and made exactly for this marketplace.



Energy Linkflex HF is particularly adapted for sheathing the entire range of voltage needs for energy cables, from low to extra-high voltage.



Utilities and industrial Benvic compounding know-how is a great advantage when it comes to the formulation of cable with features that are mission-critical and need to be supplied without compromise. Our dedicated engineering teams for cable compounds can support and assist customers in many of these sectors - including marine, industrial, automotive and transportation .

Benvic's dedicated Linkflex materials match all possible requirements in all possible applications:

Features



Zero halogen content



Compatibility to CPR euroclass⁽¹⁾



Flame retarded



Low smoke emission



Extreme servicing temperature



Hydrocarbon resistance



Oil resistance



Resistance against solvents



High mechanical flexibility



Resistant against abrasion



Cross-linked

(1) Final CPR Euroclass for cable is met, depending on design considerations. The class indication is indicated as reference and a proof of performance. Please contact us for more details.

Value for customer



Product / Process optimisation Linkflex HF does not simply offer compliance with market regulations. Successful cable manufacturers must also demonstrate value-for-money products. This can only happen by focusing on an optimum performance in plastics processing and by minimizing and removing non-quality and non-efficiency costs. Benvic has taken particular care to produce the new Linkflex range at optimum cost.



LINKFLEX HF S series for sheathing

	Density [g/cm ³]	Tensile Strength [Mpa]	Elongation [%]	LOI [%]	Hardness [shore D]	Temperature range [°C]	Color	Specific features
HFS001	1.51	>10	>135	38	48	-25/70	Natural	HALOGEN FREE Fr
HFS002	1.59	>10	>150	40	-	-25/70	Natural	HALOGEN FREE Fr Ls Ar
HFS003	1.59	>10	>150	41	-	-25/70	Natural	HALOGEN FREE Fr Ls Ar CPR ready Po
HFS004	1.61	>10	>150	41	-	-25/70	Natural	HALOGEN FREE Fr Ls Ar CPR ready Po
HFS006	1.53	>10	>150	35	-	-25/70	Natural	HALOGEN FREE Fr Ls Po
HFS007	1.51	>10	>150	37	-	-25/70	Natural	HALOGEN FREE Fr Ls CPR ready Po
HFS009	1.29	>12.5	>300	37	-	-25/70	Natural	HALOGEN FREE Fr Ls Ar

Product packaged in big bags of 500kg or 1000kg



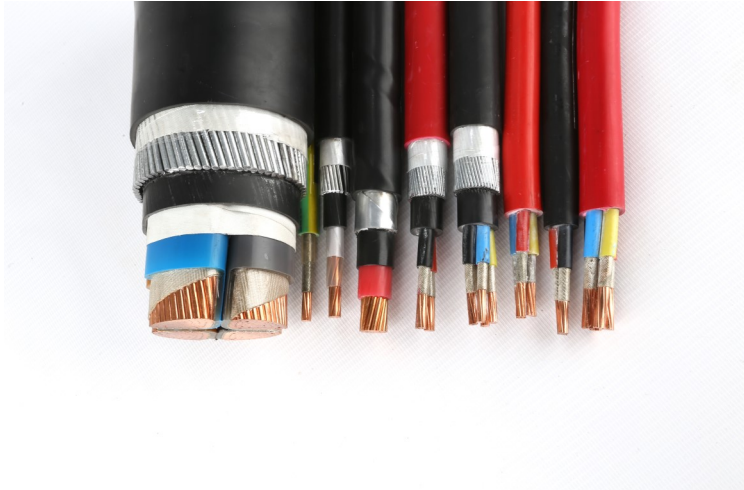
LINKFLEX HF I series for insulation

	Density [g/cm ³]	Tensile Strength [Mpa]	Elongation [%]	LOI [%]	Hardness [shore D]	Temperature range [°C]	Color	Specific features
HF1009	1.52	>11	>175	39	45	-40/70	Natural	HALOGEN FREE Fr Ls CPR ready Po
HF1011	1.51	>12	>150	36	-		Natural	HALOGEN FREE Fr Ls CPR ready Po
HF1012	1.49	>10	>150	36	-		Natural	HALOGEN FREE Fr Ls Po
HF1014	1.53	>10	>150	36	-		Natural	HALOGEN FREE Fr Ls CPR ready

Product packaged in big bags of 500kg or 1000kg

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 can change without prior notice. Benvic also supports customers through continuous adaptation of its products: please contact your nearest sales representative for technical support.

Application chart



	<i>Part number</i>	<i>Building residential</i>	<i>Public building</i>	<i>Datacom</i>	<i>Energy</i>	<i>Utilities Industrial</i>
S series	HFS001	○	○	○		○
	HFS002	○	○	○		○
	HFS003	○	○	○		
	HFS004	○	○	○		
	HFS006				○	
	HFS007				○	
	HFS009					○
I series	HF1009	○	○			
	HF1011	○	○			
	HF1012	○	○		○	
	HF1013	○	○			

○ Product compatible with the application

○ Product recommended for application

Support

Benvic's cable polymer compounding team supports in the cable design and creates new and bespoke versions of Linkflex on demand. For further questions or specific needs, please contact your Benvic sales representative – or consult the Linkflex website at www.benvicforcables.com





www.benvic.com