



Redesigning plastics. For good.

Halogen free Flame
retardant compounds

Linkflex'

CONNECTIONS FROM HOMES TO RENEWABLES. ENERGIES

The CPR regulation has created new opportunities to redesign cable compounds for building and infrastructures, to make them safer and more efficient

Since 2019, BENVIC has established a new reference to answer to this challenge by developing the HFFR and LSZH range called Linkflex.

Linkflex products has been developed starting building low voltage and then datacom. But the performance and regulation, allow to expand to new horizon such as transportation, utilities & industrial and renewable energies for which medium , high and very high voltage cables are part of the game.

Linkflex is now part of designer's choice to develop the cutting edge cable solution



An excellent CPR performance up to B2ca to match the highest safety expectations.



An improved processability for production ease and cost reduction.



A rugged design to manage perfect resistance to temperature, chemicals, mechanical stress and ageing.



A wide range of properties on demand to meet specific standard or cable uses with optional optimization;

FROM GOOD TO GREAT

KEY APPLICATION SEGMENTS



Benic'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.



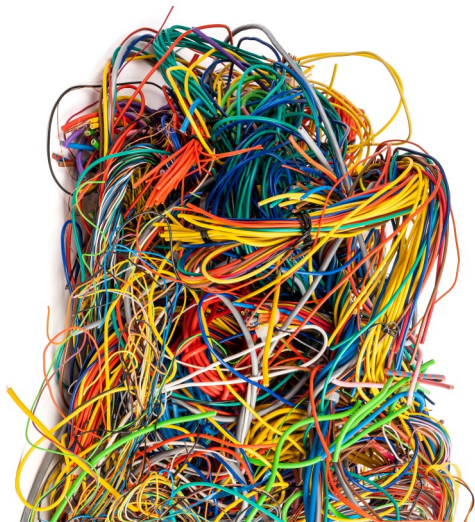
Deployment of high speed internet and 5G wireless technology call for a range of cabling that is able to meet this application's specific needs. Linkflex HF grades are designed and made exactly for this marketplace.



Benic 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.



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





CIRCULAR SOLUTIONS

Linkflex is innovating with one of the first HFFR cable compounds with post consumer recycles. Check our catalogue for versions available



LINKFLEX HF S series - Sheathing

Application or type	Product	Density [g/cm ³]	Tensile Strength [Mpa]	Elongation [%]	LOI [%]	Hardness [shore D]	Temperature range [°C]	Color	Specific features
Sheathing for Building & Energy	HFS002	1.61	>10	>150	38	49	-40/90*	Natural	IEC Sheathing 1kV Cable
	HFS002-G	1.60	>10	>125	38	42	-40/90*	Natural	BS Sheathing 1 kV cables
	HFS003	1.60	>10	>150	39	48	-40/90*	Natural	CPR Sheathing 1kV Cable
	HFS109	1.28	>12.5	>300	-	-	-40/90*	Natural	Cables for energy distribution (LV UTILITIES) Eca 
	HFM001	1.59	>10	>150	38	49	-40/90*	Natural	Insulation / IEC sheathing 1 kV cable
	HFS114	1.61	>10	>125	47.5	51	-40/90*	Natural	Bedding free CPR designs (Cca) and for B2ca designs
	HFS110	1.40	>12.5	>300	30	50	-40/90*	Natural	Enhanced mechanical properties with improved fire performance 
Datacom & Fiber Optic	HFS601	1.61	>10	>150	38	49	-40/90*	Natural	DataCom, FO sheathing
	HFS006	1.54	>10	>150	27	46	-25/90	Natural	DataCom, FO sheathing (Eca)
	HFS007	1.51	>10	>150	34	43	-25/90	Natural	DataCom, FO sheathing. Enhanced Fire Performance
	HFS611	1.52	>10	>150	34	52	-40/90*	Natural	FTTH ESCR
	HFS613	1.58	>10	>125	38	44	-40/90*	Natural	FTTH ESCR enhanced fire
	HFS614	1.61	>10	>125	47.5	51	-40/90*	Natural	Enhanced fire performance
	HFS602	1.47	>10	>250	32	43	-40/90*	Natural	Enhanced flexibility
Specialties & Transportation	HFS512	1.58	>10	>150	38	48	-40/90*	Natural	Sheathing compound for armored Railway Network
	HFS511	1.52	>10	>150	34	52	-40/90*	Natural	Desert Grade LSOH armored cables
	HFS013	1.58	>10	>150	37	52	-40/90*	Natural	CPR Desert Grade LSOH armored cables
	HFS502	1.55	>10	>150	40	47	-40/90*	Natural	ESCR with high flexibility and fire performance
	HFS501	1.53	>9	>125	36	46	-40/90*	Natural	Oil resistance (UIC 895 OR)
	HFS504	1.47	>10	>250	32	43	-40/90*	Natural	Enhanced flexibility

Product packaged in big bags of 500kg, 1000kg or 1200kg

 Version with PCR content upon demand



LINKFLEX HF X series - Sheathing cross-linked

Product	Density [g/cm ³]	Tensile Strength [Mpa]	Elongation [%]	LOI [%]	Hardness [shore D]	Temperature range [°C]	Color	Specific features
HF003	1.49	>10	>150	-	40	-25/90	Natural	Sheathing moisture crosslinkable compound for photovoltaic cables

Product packaged in big bags of 500kg, 1000kg or 1200kg



LINKFLEX HF I series - Insulation

Product	Density [g/cm ³]	Tensile Strength [Mpa]	Elongation [%]	LOI [%]	Hardness [shore D]	Temperature range [°C]	Color	Specific features
HF009	1.57	>10	>150	40	45	-25/70	Natural	LV Insulation H05Z1 & H07Z1 cables. Mass insulation (CPR)
HF011	1.54	>10	>150	35	48	-25/70	Natural	Insulation H05Z1 & H07Z1 cables. Skin layer (CPR)
HF012	1.49	>10	>150	34	52	-25/70	Natural	Thermoplastic Insulation for Z1Z1, Z1C4Z1 cables (CPR)
HF014	1.57	>10	>125	37	51	-25/70	Natural	CPR Insulation H05Z1 & H07Z1 cables. Mass insulation
HF020							Natural	Insulation for 500V & 750V cables. CPR (B2ca)
HF001	1.61	>10	>150	38	49	-40/90*	Natural	Insulation / IEC sheathing 1 kV cable

Product packaged in big bags of 500kg, 1000kg or 1200kg










Important note: 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

As answering to CPR regulation, our Linflex series is covering most of the construction and infrastructure needs. Even our range is now boarding



Part number	 <i>Building residential</i>	 <i>Public building</i>	 <i>Datacom</i>	 <i>Fiber optic</i>	 <i>Energy</i>	 <i>Photovoltaic</i>	 <i>Utilities Industrial</i>
HFS002	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				<input type="radio"/>
HFS002-G	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				<input type="radio"/>
HFS003	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				
HFS009					<input type="radio"/>		
HFS512	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				
HFS511							<input type="radio"/>
HFS513							<input type="radio"/>
HFS606			<input type="radio"/>	<input type="radio"/>			
HFS607			<input type="radio"/>	<input type="radio"/>			
HFS611				<input type="radio"/>			
HFS613			<input type="radio"/>	<input type="radio"/>			
HFM001	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HFX003						<input type="radio"/>	
HF1009	<input type="radio"/>	<input type="radio"/>					
HF1011	<input type="radio"/>	<input type="radio"/>					<input type="radio"/>
HF1012	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>		
HF1014	<input type="radio"/>	<input type="radio"/>					
HF1018	<input type="radio"/>	<input type="radio"/>					
HFM001	<input type="radio"/>				<input type="radio"/>		<input type="radio"/>

Product compatible with the application

Product recommended for application





STANDARD COMPLIANCE

Our compounds are answering to various performance standards depending locations and applications. BENIVC is continually adapting its products to updated standards. Please contact your sales representative in case of new demand.

Part number	HD603-A3 DMO1	HD603-S2 DMZ2	EN50363-8 TM7	EN50290 (70°)	EN 50290 (90°)	EN5363-7 T16	EN5363-7 T17	UNE 211234 DMZ-E	EN 50363-0 M1	VDE 0207 HM2	VDE 0207 HM4	IEC 60502-1 ST8	IEC60092-360 SHFI	BS7655 LTS1	BS7655 LTS2	BS7655 LTS3	BS7655 LTS4	EN 50618:2015	ADIF ET 03354:0196
HFS002																			
HFS002-G																			
HFS003																			
HFS009																			
HFS512																			
HFS511																			
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HFS606																			
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HFS611																			
HFS613																			
HFM001																			
HFX003																			
HFI009																			
HFI011																			
HFI012																			
HFI014																			
HFI018																			
HFM001																			

S series

I series



Benic's cable polymer compounding team supports new cable design and also creates new and bespoke versions of Linkflex on demand. For further questions or specific needs, please contact your Benic sales representative or at benic.com



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www.benvic.com



BENVIC IS POWERED
BY GREEN ENERGY