

HFI 121 XL / XC

Intended for general use

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	Internal	1 kHz	3.5
Dielectric strength	-	-	-
Dissipation factor	-	-	-
Volume resistivity	Internal	25 °C 90 °C	10 ¹⁵ Ω x cm 10 ¹² Ω x cm

Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	1.34 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	170 - 330 %
Hardness	ISO R 868	-	36 D
Radiation resistance	-	-	-
Tensile strength	IEC 60811-501	50 mm/min	10 MPa
Water absorption	-	-	-

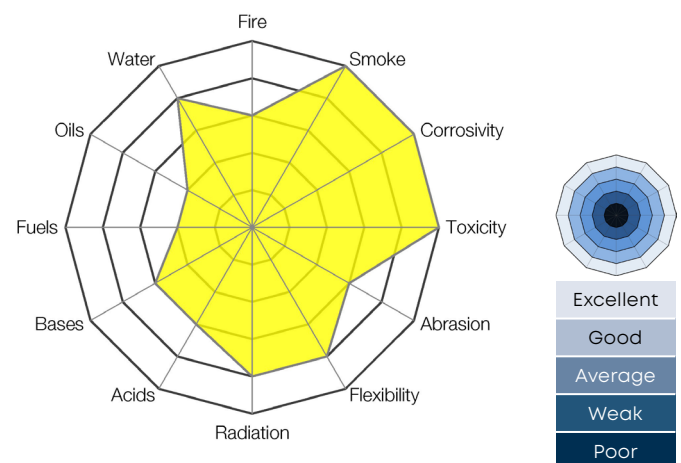
Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	IEC 60754-2	pH Conductivity	> 4.3 < 100 µS/cm
Continuous temperature rating	IEC 60216	20,000 hrs	+ 122 °C
Flammability	-	-	-
Flame propagation	-	-	-
Oxygen index	ASTM D 2863	-	31 %
Smoke density	IEC 61034-2	Dependent on cable design	97 %
Smoke index	-	-	-
Temperature index	Def Stan 02-715	-	300 °C
Toxicity index	-	-	-

Properties

HFI 121 XL is a flexible, Halogen Free, Flame Retardant (HFFR) insulation material which is cross-linked to provide good all-round mechanical and chemical resistance properties.

Typically used for bigger sizes, HFI 121 XL is a general-purpose material, although it is also commonly used by Habia Cable for non-approved shipboard and underground use, as well as in the Hi-Flex ZH range of flexible power cores thanks to its excellent low smoke generation and low toxicity properties.

Important: Habia Cable has compiled the information contained herein from what it believes to be accurate and factual sources as of the date printed. Data is based on typical values and might vary depending on cable construction and processing method. Any changes in the data will be made without notification.



Available colours (shades may vary from material to material)



Characteristics and key properties

Intended use Insulation	Intended use Small / Inner sheath	Intended use Outer sheath					Temp installation -40°C	Temp low -40°C	Temp >20,000 hrs +122°C	Temp peak +150°C
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