

HFI 90 H / P

High density
Intended for use in data cables

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	IEC 60250	1 MHz	2.33
Dielectric strength	IEC 60243-1	-	22 kV/mm
Dissipation factor	IEC 60250	1 MHz	0.00006
Volume resistivity	IEC 60093 Internal	25 °C 90 °C	10 ¹⁶ Ω x cm 10 ¹⁵ Ω x cm

Physical			
Properties	Method	Conditions	Value
Density	ISO 1872	-	0.95 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	600 %
Hardness	ISO R 868	1 Sec	61 D
Radiation resistance	IEC 60544	-	10 ¹⁶ Gy
Tensile strength	IEC 60811-501	50 mm/min	17 MPa
Water absorption	-	-	-

Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	-	-	-
Continuous temperature rating	IEC 60216	20,000 hrs	+ 90 °C
Flammability	-	-	-
Flame propagation	-	-	-
Oxygen index	-	-	-
Smoke density	-	-	-
Smoke index	-	-	-
Temperature index	-	-	-
Toxicity index	-	-	-

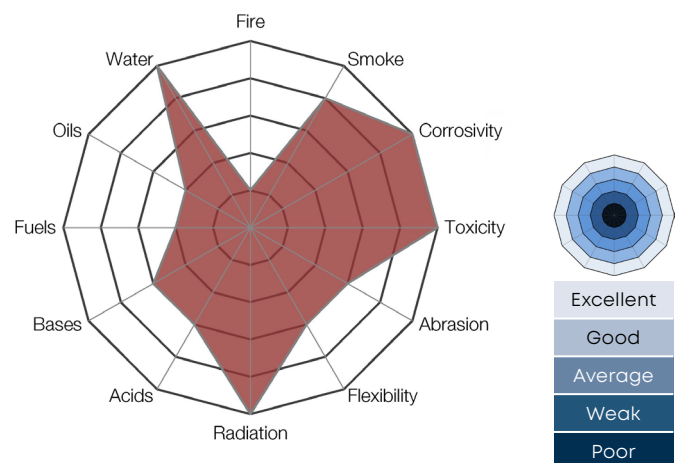
Properties

HFI 90 H is a low cost insulation with very good mechanical and electrical properties making it ideal for use in data cables (twisted pairs and coaxials).

HFI 90 H is the preferred option for multicores and will be more commonly used for data-pairs. HFI 90 H is halogen free but is not flame retardant.

Although HFI 90 H has mixed chemical resistance properties, it is one of the best options for use in water.

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					Temp installation	Temp low	Temp >20,000 hrs	Temp peak
						-60°C	-60°C	+90°C	+105°C

DISCLAIMER: This document and its content remain the property of Habia Cable. It may not be used, copied or provided to any other party than the intended recipient, without prior written permission from Habia Cable. The product shown is intended for professional use and is subject to the user's own evaluation for any particular purpose. Information provided indicates nominal, indicative values and cannot be considered a binding representation or warranty for products and their use. Information is considered valid at the time of publication and is subject to change without notice.