

## HFI 260 / M

Intended for use in nuclear applications

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	0.1 kHz 10 MHz	3.2 3.2
Dielectric strength	ASTM D 149	-	190 kV/cm
Dissipation factor	ASTM D 150	0.1 kHz 10 MHz	0.001 0.003
Volume resistivity	ASTM D 150 & ASTM D 257	-	10 <sup>16</sup> Ω x cm

Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	1.3 g/cm <sup>3</sup>
Elongation at break	IEC 60811-501	23 °C	150 %
Hardness	ASTM D 2240	-	85 D
Radiation resistance	IEC 60544	-	> 10 <sup>17</sup> Gy
Tensile strength	IEC 60811-501	23 °C	100 MPa
Water absorption	ASTM D 570	-	0.5 %

Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH Conductivity	3.8 70 μS/cm
Continuous temperature rating	IEC 60216	20,000 hrs	+ 190 °C
Flammability	UL 94	1.45 mm	V-0
Flame propagation	IEC 60332-1-2	Dependent on cable design	Pass
Oxygen index	ASTM D 2863	-	35 %
Smoke density	ASTM E 662	1.6 mm flaming 1.6 mm non flaming	50 5
Smoke index	Def Stan 61-12 Part 0/1	per m wire	< 1
Temperature index	Def Stan 02-715	-	325 °C
Toxicity index	Def Stan 61-12 Part 0/1	per m wire	0.07

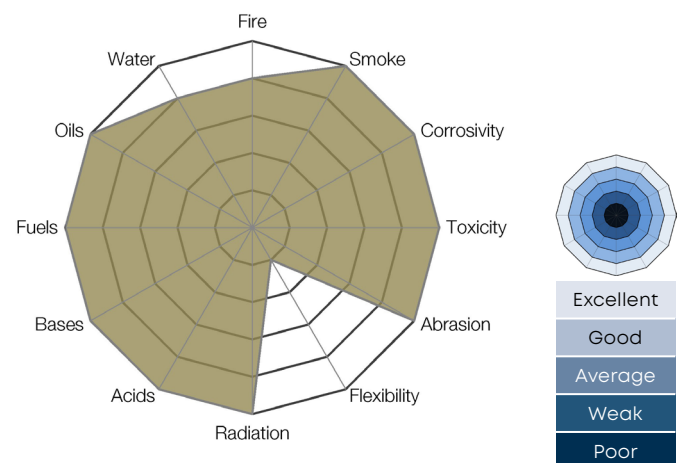
### Properties

HFI 260 is a halogen free, flame retardant and low smoke insulation material that is able to withstand extremes of both high and low temperatures and has the widest temperature range of all Habia Cable's Halogen Free, Flame Retardant (HFFR) materials.

Although it is relatively brittle and not suited to use in flexible applications, it is extremely tough in terms of abrasion loss and resistance to chemicals and mechanical damage.

HFI 260 is limited in the colours that can be produced and Habia Cable recommends only Black and Natural colours. Other colours can be made but accurate colour matching is not possible with this material.

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 (specific colour matching cannot be guaranteed on this material)



### Characteristics and key properties

Intended use Insulation	Intended use Small / Inner sheath					Temp installation <b>-60°C</b>	Temp low <b>-60°C</b>	Temp >20,000 hrs <b>+190°C</b>	Temp peak <b>+200°C</b>
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