

## HFS 100 / I

Intended for general use

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	DIN 53483 / VDE 0303 p.4	50 Hz	8.0
Dielectric strength	DIN 53481 / VDE 0303 p.2	-	40 kV/mm
Dissipation factor	DIN 53483 / VDE 0303 p.4	50 Hz	0.04
Volume resistivity	DIN 53482 / VDE 0303 p.3	-	10 <sup>11</sup> Ω x cm

Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	1.2 g/cm <sup>3</sup>
Elongation at break	IEC 60811-501	50 mm/min	450 %
Hardness	DIN ISO 7619-1	-	89 A
Radiation resistance	IEC 60544	-	10 <sup>17</sup> Gy
Tensile strength	IEC 60811-501	50 mm/min	30 MPa
Water absorption	-	-	-

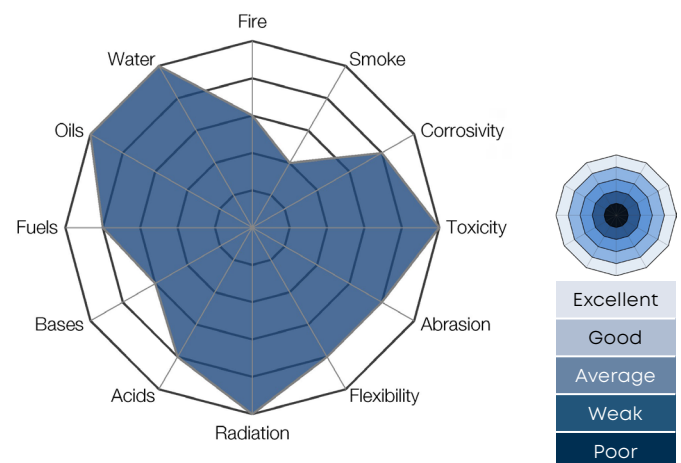
Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	IEC 60754-2	pH Conductivity	6.2 160 μS/cm
Continuous temperature rating	IEC 60216	20,000 hrs	+ 90 °C
Flammability	UL 94	0.75 mm	V-0
Flame propagation	IEC 60332-1-2	-	Pass
Oxygen index	ASTM D 2863	-	25 %
Smoke density	NF X 10-702	Dm	320
Smoke index	Def Stan 02-711	per 100g	61
Temperature index	Def Stan 02-715	-	174 °C
Toxicity index	Def Stan 02-713	per 100 g	5

### Properties

HFS 100 is Habia Cable's preferred general purpose material. It has excellent radiation, water and oil resistance, but HFS 100's greatest strength is in its mechanical properties where it is very tough and has both excellent flexibility and flex-life making it ideal for use in dynamic applications.

HFS 100 is halogen free (to IEC 60754-1) and is moderately flame retardant, further increasing the range of applications in which it can be used. It also has a very good memory and moulding characteristics, making it easy to form into spiral cables and ideally suited for use with moulded connector backshells.

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 Small / Inner sheath	Intended use Outer sheath					Temp installation <b>-60°C</b>	Temp low <b>-60°C</b>	Temp >20,000 hrs <b>+90°C</b>	Temp peak <b>+100°C</b>
--------------------------------------	------------------------------	--	--	--	--	-----------------------------------	--------------------------	----------------------------------	----------------------------

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.