

HFS 80 N / W

Intended for use in nuclear applications

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	50 Hz	3.8
Dielectric strength	-	-	-
Dissipation factor	ASTM D 150	50 Hz	0.014
Volume resistivity	ASTM D 257	-	10 ¹³ Ω x cm

Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	1.58 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	100 %
Hardness	ASTM D 2240	-	45 D
Radiation resistance	IEC 60544	-	10 ⁶ Gy
Tensile strength	IEC 60811-501	50 mm/min	8 MPa
Water absorption	-	-	-

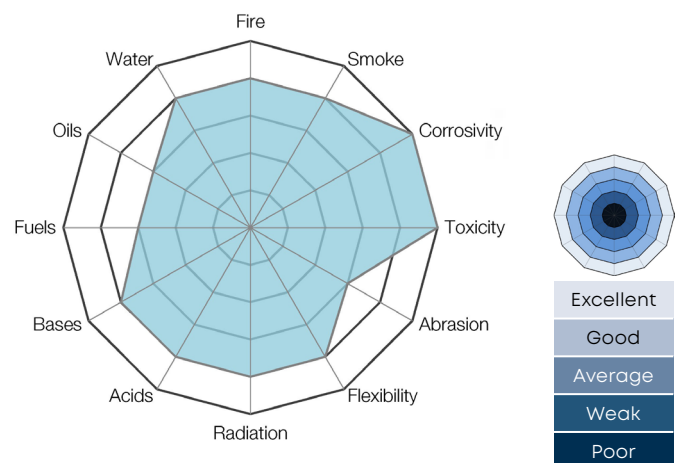
Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	IEC 60754-2	pH Conductivity	4.5 42 μS/cm
Continuous temperature rating	Internal	20,000 hrs	+ 70 °C
Flammability	UL 94	0.5 mm	V-0
Flame propagation	IEC 60332-1-2 IEC 60332-3-22 Cat A IEEE 1202-2006	Dependent on cable design Dependent on cable design Dependent on cable design	Pass Pass Pass
Oxygen index	ISO 4589-2	-	42 %
Smoke density	ASTM E 662	1.5 mm flaming 1.5 mm non-flaming	48 350
Smoke index	-	-	-
Temperature index	ISO 4589-3	-	300 °C
Toxicity index	Def Stan 02-713	-	1.6

Properties

HFS 80 N is Habia Cable's preferred material for general purpose nuclear applications.

Sharing many of the Low Smoke, Zero Halogen (LSZH) and Flame Retardant (FR) properties of HFS 80, but with improved thermal stability. It has very good radiation resistance, reasonable mechanical and chemical properties and outstanding fire, smoke and toxicity performance that has been tested to - and passed - some of the most stringent industry standards.

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 -40°C	Temp low -25°C	Temp >20,000 hrs +70°C	Temp peak +80°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.