

HFI 140 / D

Approved to Def Stan 61-12 Part 18
Intended for use in defence applications

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	BS 3G 230, Test 16a	1 kHz	3.76
Dielectric strength	-	-	-
Dissipation factor	-	-	-
Volume resistivity	Internal	25 °C 90 °C	10 ¹⁵ Ω x cm 10 ¹⁵ Ω x cm
Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	1.4 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	130 %
Hardness	-	-	-
Radiation resistance	IEC 60544	-	10 ⁶ Gy
Tensile strength	IEC 60811-501	-	60 MPa
Water absorption	-	-	-
Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	-	-	-
Continuous temperature rating	BS 3G 230, Test 20	40,000 hrs	+ 120 °C
Flammability	BS 3G 230 Test 28a	5 seconds	Pass
Flame propagation	IEC 60332-1-2	Dependent on cable design	Pass
Oxygen index	Def Stan 61-12 Pt 0/1	-	30 %
Smoke density	-	-	-
Smoke index	Def Stan 61-12 Pt 0/1	per m wire	2
Temperature index	Def Stan 61-12 Pt 0/1	-	>250 °C
Toxicity index	Def Stan 61-12 Pt 0/1	per m wire	0.08

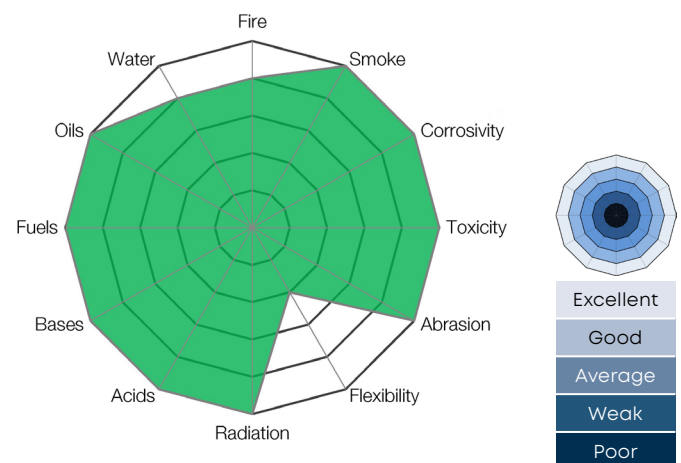
Properties

HFI 140 is a dual-wall insulation material designed and approved to Def Stan 61-12 Part 18: Limited Fire Hazard Equipment Wires.

With remarkable all-round properties, HFI 140 is used in applications as diverse as nuclear, defence, civilian underground and subsea.

The material is mechanically tough and highly abrasion resistant. HFI 140 exhibits the very best Low Smoke Zero Halogen (LSZH) and fire resistance properties of all Habia Cable's insulation materials.

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
							-50°C	-50°C	+120°C	+140°C

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