

HFS 107 XL / X

Approved to Def Stan 61-12 Part 31 (limits apply)
Intended for use in defence applications

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	-	-	-
Dielectric strength	-	-	-
Dissipation factor	-	-	-
Volume resistivity	ASTM D 257	-	10 ¹³ Ω x cm
Physical			
Properties	Method	Conditions	Value
Density	ISO 1183	-	1.46 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	> 200 %
Hardness	-	-	-
Radiation resistance	IEC 60544	-	10 ⁶ Gy
Tensile strength	IEC 60811-501	50 mm/min	9 MPa
Water absorption	-	-	-
Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	-	-	-
Continuous temperature rating	Internal	40,000 hrs 20,000 hrs	+ 100 °C + 105 °C
Flammability	-	-	-
Flame propagation	IEC 60332-1-2 Def Stan 02-641	Dependent on cable design Dependent on cable design	Pass Pass
Oxygen index	ISO 4589-2	-	> 29 %
Smoke density	IEC 61034-2	-	> 85 %
Smoke index	Def Stan 02-711	-	16
Temperature index	ISO 4589-3	-	260 °C
Toxicity index	Def Stan 02-713	per 100 g	< 2

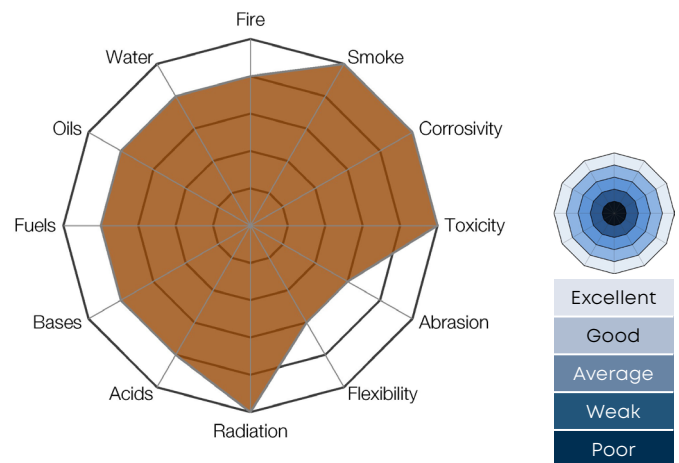
Properties

HFS 107 XL is a rugged sheath material that was designed to meet the requirements of the Defence Standard 61-12 Part 31: specification for LFH sheathing material.

With the exception of three identified fluids (F76, OX30 and OMD 113) it fully complies with all other requirements of the Def Stan making it an ideal choice for use on shipboard cables where a fully approved product is not required.

HFS 107 XL is a radiation cross-linked, flame retardant and low smoke, zero halogen material and is one of Habia Cable's toughest and most durable sheath 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)

● Black	-	-	-	-	-	-	-	-	-	-
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Characteristics and key properties

	Intended use	Approval				Temp installation	Temp low	Temp >20,000 hrs	Temp peak
	Outer sheath	Def Stan 61-12 Part 31 (limits)				-30°C	-30°C	+110°C	+120°C

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