

## FPI 205 / H-K

Intended for general use

Electrical			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	0.1 kHz 10 MHz	2.1 2.1
Dielectric strength	ASTM D 149	0.25 mm film 3.2 mm sheet	> 80 kV/mm 20 kV/mm
Dissipation factor	ASTM D 150	0.1 kHz 10 MHz	0.0002 0.0007
Volume resistivity	Internal	25 °C 90 °C	> 10 <sup>16</sup> Ω x cm 10 <sup>16</sup> Ω x cm

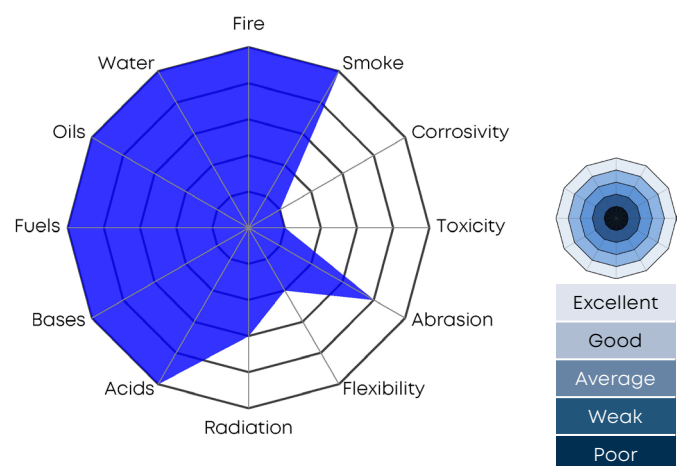
Physical			
Properties	Method	Conditions	Value
Density	ASTM D 792	-	2.15 g/cm <sup>3</sup>
Elongation at break	IEC 60811-501	50 mm/min	200 %
Hardness	ASTM D 2240	-	55 D
Radiation resistance	IEC 60544	-	10 <sup>4</sup> Gy
Tensile strength	IEC 60811-501	50 mm/min	20 MPa
Water absorption	ASTM D 570	25 °C	< 0.01 %

Thermal			
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH Conductivity	2.3 3100 μS/cm
Continuous temperature rating	IEC 60216	20,000 hrs	+ 205 °C
Flammability	UL 94	1.6 mm	V-0
Flame propagation	-	-	-
Oxygen index	ASTM D 2863	-	93 %
Smoke density	ASTM E 662	Flaming Non-flaming	< 10 < 10
Smoke index	-	-	-
Temperature index	Def Stan 02-715	-	> 400 °C
Toxicity index	-	-	-

### Properties

Of the FPI series, FPI 205 is the preferred choice for long length requirements. With excellent electrical properties it is an ideal choice for use in data cables and coaxials. As with other cables in the FPI series, it is not halogen free, but offers excellent all-round fire and chemical resistance and a very broad operating temperature range making it suitable for use in a wide range of environments.

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	Intended use	Intended use					Temp installation	Temp low	Temp >20,000 hrs	Temp peak
Insulation	Small / Inner sheath	Outer sheath					-200°C	-65°C	+205°C	+205°C

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