

FPI 205 // H-K

Intended for general use

Electrical

-200°C to +205°C

Insulation, inner and outer sheath			
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 ¹⁶ Ω x cm 10 ¹⁶ Ω x cm

Physical

Properties	Method	Conditions	Value
Continuous temperature rating	IEC 60216	20,000 hrs	+ 205 °C
Density	ASTM D 792	-	2.15 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	200 %
Hardness	ASTM D 2240	-	55 D
Radiation resistance	IEC 60544	-	10 ⁴ Gy
Temperature range	Internal	Minimum Maximum	- 200 °C + 205 °C
Tensile strength	IEC 60811-501	50 mm/min	20 MPa
Water absorption	ASTM D 570	25 °C	< 0.01 %

Thermal

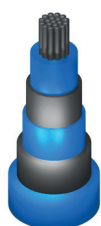
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH Conductivity	2.3 3100 µS/cm
Flammability	UL 94	1.6 mm	V-0
Flame propagation	-	-	-
Oxygen index	ASTM D 2863	-	93 %
Smoke density	ASTM E 662	Flaming Non-flaming	< 10 < 10
Smoke index	-	-	-
Temperature index	Def Stan 02-715	-	> 400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

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 excellent all-round fire and chemical resistance and a broad operating temperature range makes FPI 205 ideal for use in a wide range of environments.

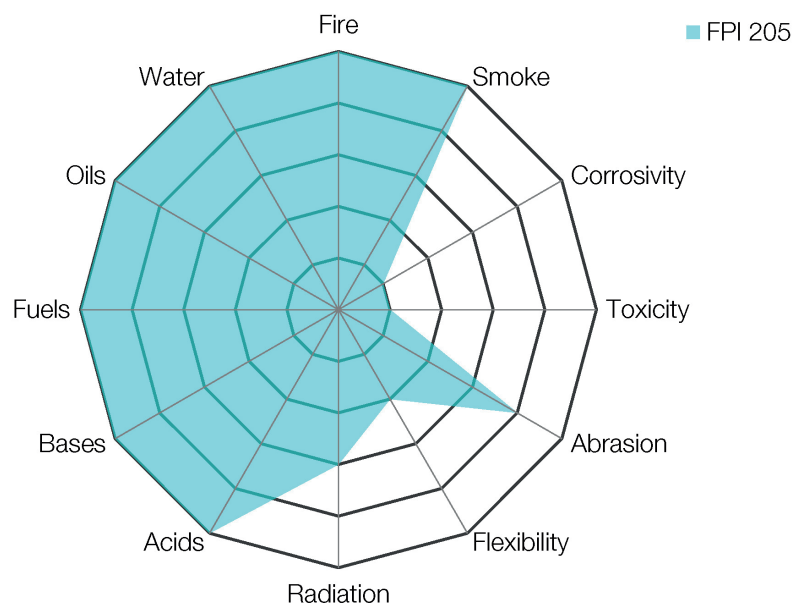
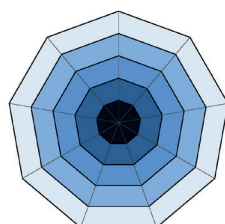
Available colours			
Shades may vary from material to material			
Black	Brown	Red	Orange
Yellow	Green	Blue	Violet
Grey	White	Pink	Natural

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.

Use	Spider-graph key
Insulation	
Inner sheath	
Outer sheath	



- Excellent
- Good
- Average
- Below average
- Poor



DISCLAIMER: Information is indicative and cannot be considered a binding representation or warranty for products and their use.