

FPI 155 // H-Z

Intended for general use

Electrical

-100°C to +170°C

Insulation, inner and outer sheath			
Properties	Method	Conditions	Value
Dielectric constant	ASTM D 150	0.1 kHz 10 MHz	2.6 2.6
Dielectric strength	-	-	-
Dissipation factor	ASTM D 150	0.1 kHz 10 MHz	0.001 0.004
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	EN 50306-2	20,000 hrs	+ 155 °C
Density	ASTM D 792	-	1.7 g/cm ³
Elongation at break	IEC 60811-501	50 mm/min	250 %
Hardness	ASTM D 2240	-	67 D
Radiation resistance	IEC 60544	-	10 ¹⁵ Gy
Temperature range	Internal	Minimum Maximum	- 100 °C + 170 °C
Tensile strength	IEC 60811-501	50 mm/min	> 35 MPa
Water absorption	ASTM D 570	25 °C	< 0.01 %

Thermal

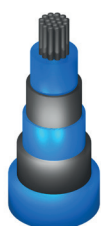
Properties	Method	Conditions	Value
Combustion corrosivity	DIN 57472-813	pH Conductivity	2.6 2700 µS/cm
Flammability	UL 94	1.6 mm	V-0
Flame propagation	IEC 60332-1-2	Dependent on cable design	Pass
Oxygen index	ASTM D 2863	-	31 %
Smoke density	ASTM E 662	Flaming Non-flaming	300 20
Smoke index	Def Stan 02-711	per m wire	1
Temperature index	Def Stan 02-715	-	290 °C
Toxicity index	Def Stan 02-713	per m wire	5

FPI 155 is the most rugged material in the FPI series, allowing it to be produced with very thin walls and still be able to withstand enormous physical punishment. This along with its low friction properties make it suitable for applications requiring a long flex-life. Although it is not halogen free, good electrical properties, excellent all-round fire and chemical resistance and a broad operating temperature range all make FPI 155 ideal for use in a wide range of environments.

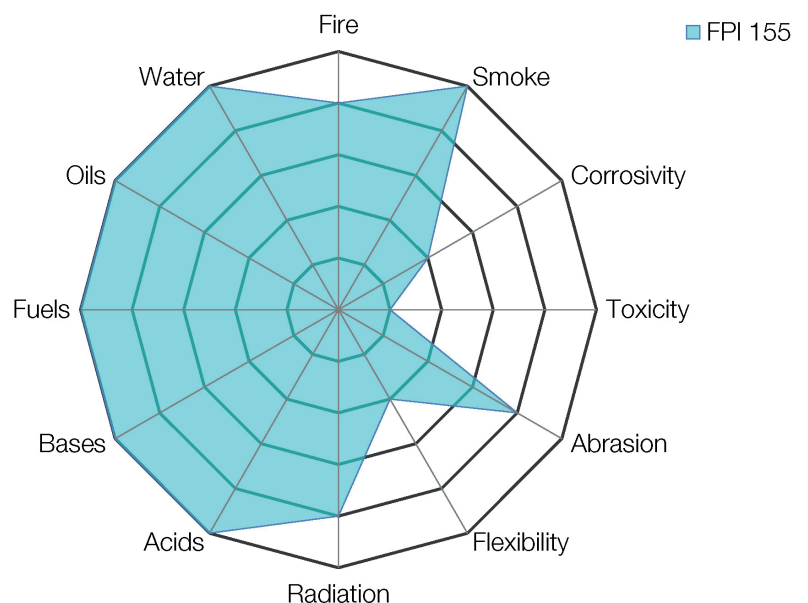
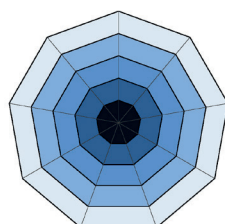
Available colours			
Shades may vary from material to material			
Black	Brown	Red	Orange
Yellow	Green	Blue	Violet
Grey	White	Pink	Natural

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.