## Habia Cable

## PTFE / E

Intended for general use

	Elec	trical		
Properties	Method	Conditions	Value	
Dielectric constant	ASTM D 150	0.1 kHz 100 MHz	2.1 2.1	
Dielectric strength	ASTM D 149	0.38 mm	24 kV/mm	
Dissipation factor	ASTM D 150	0.1 kHz 100 MHz	0.0001 0.0002	
Volume resistivity	Internal	90 °C	10^16 Ω x cm	
	Phy	sical		
Properties	Method	Conditions	Value	
Density	ASTM D 792	-	2.2 g/cm <sup>3</sup>	
longation at break	IEC 60811-501	50 mm/min	300 %	
lardness	ASTM D 2240	-	58 D	
Radiation resistance	IEC 60544	-	10^3 Gy	
Tensile strength	IEC 60811-501	50 mm/min	32 MPa	
Water absorption	ASTM D 570	-	< 0.01 %	
	The	ermal		
Properties	Method	Conditions	Value	
Combustion corrosivity	DIN 57472-813	pH Conductivity	2.2 4100 µS/cm	
Continuous temperature rating	IEC 60216	20,000 hrs	+ 260 °C	
Flammability	UL 94	1.6 mm	V-0	
Flame propagation	-	-	-	
Dxygen index	ASTM D 2863	-	> 95 %	
Smoke density	ASTM E 662	Flaming Non-flaming	< 10 < 10	
Smoke index	-	-	-	
Temperature index	Def Stan 02-715	-	> 400 °C	
Foxicity index	-	-	_	

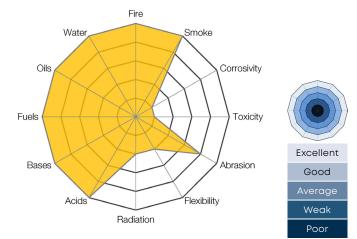
## **Properties**

PTFE is unique amongst the fluoropolymer materials as it processed by either cold ram-extrusion or tape-wrapping and is then sintered at high temperatures to set the material.

PTFE has the best electrical properties of any plastic material with a low dielectric constant of 2.1 that does not change with temperature or frequency. With very good chemical properties and excellent fluid resistance, only alkali metals and the most corrosive of chemicals under high pressures / temperatures will attack PTFE.

Although it is a halogenated material, it is highly flame retardant and generates very little smoke under fire conditions.

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	Brown	Red	Orange	Yellow	Green	Blue	Viole	t Grey	White	Pink	Clear
	Characteristics and key properties										
Intended	Intended <sup>USE</sup>							<b>Temp</b> installation	Temp low	<b>Temp</b> >20,000 hrs	<b>Temp</b> peak

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