

Technical Data - Cable

Insulation and Jacket Material Characteristics

Material	Abbreviation	Temperature range/ flexible	Flame retardance	Tensile strength N/mm ²	Elongation at break %	Abrasion resistance	Dielectric constant at 800 Hz approx.	Specific resistance Ω x cm	Break-down voltage kV/mm	Radiation resistance cJ/kg
PVC special	Y	+5/+70°C	very good	15	250	medium	4.0	10 ¹³	12	8 x 10 ⁷
PVC cold resistant	YK	-20/+70°C	very good	15	250	medium	4.0	10 ¹³	12	8 x 10 ⁷
PVC heat resistant	YW	+5/+105°C	very good	18	200	medium	3.5	10 ¹³	18	8 x 10 ⁷
PVC oil resistant	YOE	+5/+70°C	very good	15	250	medium	4.0	10 ¹³	12	8 x 10 ⁷
PUR halogen-free	11Y	-40/+90°C	moderate	30	400	very good	6.0	10 ¹²	20	5 x 10 ⁷
PE	2Y	-40/+70°C	moderate	20	500	good	2.4	10 ¹⁷	100	7 x 10 ⁶
TPE	12Y/13Y	-40/+90°C (up to +135°C)	moderate	30	500	good	3.3	10 ¹⁴	30	1 x 10 ⁷
Besilen®	2G	+180°C	good	7	200	moderate	3.2	10 ¹⁵	20	2 x 10 ⁷
FEP	6Y	+ 180°C	very good	20	250	good	2.1	10 ¹⁸	20	5 x 10 ⁶
PFA	-	+ 250°C	very good	20	250	good	2.1	10 ¹⁸	20	2 x 10 ⁶
ETFE	7Y	+150°C	very good	45	250	good	2.6	10 ¹⁶	30	5 x 10 ⁷
SABIX® * on basis of PP	-	-40/+90°C	-	30	500	good	2.3	10 ¹⁶	30	-
SABIX FRNC* on basis of PO	-	-40/+90°C	very good	9	125	moderate	4.7	10 ¹⁴	-	5 x 10 ⁷
SABIX** reticulated	-	-40/+125°C	very good	12	125	moderate	5.0	-	-	-

The values in this table are approximates and are not complete
(Technical modification subject to alteration)

* depending on type

** electron beam crosslinked types