



HALLEY CABLES

CABLES & WIRES

Materials

Material	Abbreviation	Key VDE	Working temperature	Tensile strength N/mm ²	Elongation at tear %	Water absorption (20° C) %	Weathering resistance	Fuel resistance	Oil resistance	Burning behaviour
polyvinyl chloride	PVC	Y	-30 / +70	10 - 25	150 - 300	0,4	moderate	moderate	good	self-extinguishing
polyvinyl choride thermoresistant	PVC	Y	-20 / +90	10 - 25	150 - 300	0,4	moderate	moderate	good	self-extinguishing
high-pressure polyethylene	LDPE	2Y	-50 / +70	20 - 30	500	0,1	good	slight	moderate	inflammable
low pressure polyethylene	HDPE	2Y	-50 / +100	30	800	0,1	moderate	slight	moderate	inflammable
polyurethane	PUR	11Y	-40 / +90/100	30 - 45	300 - 600	1,5	very good	good	good	self-extinguishing
polyamide	PA	4Y	-40 / +80	50 - 180	200 - 300	1 - 2	good	moderate	good	inflammable
polybutylene-terephthalate	PBTP		-60 / +110	50 - 100	50 - 300	0,5	good	good	good	inflammable
polytetrafluorethylene	PTFE	5Y	-190 / +260	14 - 40	240 - 400	0,01	very good	very good	very good	non-inflammable
tetrafluorethylene hexafluorpropylene copolymere	FEP	6Y	-100 / +200	20 - 25	250 - 350	0,01	very good	very good	very good	non-inflammable
ethylen-tetrafluorethylene	ETFE	7Y	-100 / +150	40 - 50	100 - 300	0,01	very good	very good	very good	non-inflammable
perfluoralkoxy-polymere	PFA		-190 / +260	30	300	0,01	very good	very good	good	non-inflammable
chloroprene-caoutchouc	CR	5G	-40 / +100	25	450	1	very good	moderate	good	self-extinguishing
silicone caoutchouc	SI	2G	-60 / +180	5 - 10	200 - 350	1	very good	slight	moderate	hardly inflammable
ethylenvinylacetate	EVA	4G	-30 / +125	5	200	0,01	good	slight	slight	inflammable
ethylene propylene-caoutchouc	EPM/EPDM	3G	-30 / +120	5 - 25	200 - 450	0,02	good	slight	slight	inflammable
thermoplastic polyolefine elastometre	TPE-O		-40 / +120	> 6	> 400	1,5	very good	moderate	moderate	inflammable
thermoplastic polyester elastometre	TPE-E	12Y	-70 / +125	3 - 25	280 - 650	0,3 - 0,6	very good	good	very good	inflammable
styrene copolymere	TPE-S	-70	+105/140	9 - 25	500 - 700	1 - 2	moderate	good	slight	inflammable