

Properties of used Materials							
Material	Product	Temperature Resistance			Temperature Range to Maintain IP Rating	Flammability Rating acc. to DIN EN 60695	
		Short-Term	Constant	Min. Temp.		UL 94	VDE 0471
Polystyrene, flame resistant, impact resistant	TK//AK/AKL and Abox series	80° C 176° F	70° C 158° F	-25° C -13° F	-25 – 40° C -13 – 104° F	HB	650° C 1202° F
Polycarbonate, glass fibre reinforced, flame-impact resistant	TK/TG/AK-i/AKL/EK and Abox-i series	130° C 266° F	120° C 248° F	-40° C -40° F	-35 – 80° C -31 – 176° F	V - 2 (5V) ¹	960° C 1706° F
Polycarbonate, transparent	TK/TG/EK/AK/AKL hinged door and transparent lid	130° C 266° F	120° C 248° F	-40° C -40° F	-35 – 80° C -31 – 176° F	V - 2 (5V) ¹	850° C 1562° F
ABS, flame resistant, impact resistant	TG Series	90° C 194° F	80° C 176° F	-40° C -40° F	-25 – 40° C -13 – 104° F	HB	650° C 1202° F
Thermoplastic Elastomer	Membrane plugs, membranes Abox 025/040	110° C 230° F	80° C 176° F	-30° C -22° F	NA	HB	750° C 1382° F
Polyethylene, flame resistant	Entry Spouts	100° C 212° F	70° C 158° F	-40° C -40° F	NA	HB	650° C 1202° F
Aluminum Al 12Si	AL series	130° C 266° F	100° C 212° F	-40° C -40° F	-35 – 75° C -31 – 167° F	–	–
Polypropylene, flame resistant	HP series	120° C 248° F	100° C 212° F	-30° C -22° F	-25 – 40° C -13 – 104° F	V - 2	960° C 1760° F

All data given according to specifications of manufacturers; no guarantee from Altech/Spelsberg can be claimed.

¹ Approved for TK enclosures.

Maximum permissible number of terminals and conductors to DIN 57606/VDE 0606									
The table below indicates the numbers of terminals and conductors which can be used in the respective Altech/Spelsberg junction box:									
Box Size Rated Cross-Section mm ²	Minimum Box Volume cm ³	Applies to Altech/Spelsberg Box Models	Number of Terminals and Conductors	Conductor cross section mm ²					
				1.5	2.5	4	6	10	16
2.5 mm ²	115 cm ³	HP 70/80 Abox 025	Terminal Conductor	6 20	5 15				
4 mm ²	200 cm ³	HP 90 Abox 040	Terminal Conductor	8 24	6 20	5 15			
6 mm ²	300 cm ³	HP 100 Abox 060	Terminal Conductor	10 30	8 24	6 20	5 15		
10 mm ²	500 cm ³	Abox 100	Terminal Conductor	12 36	10 30	8 24	6 20	5 15	
16 mm ²	825 cm ³	Abox 160	Terminal Conductor	18 54	15 45	12 36	8 24	6 20	5 15