Appendix

A13 Selection Table

A 13: Cables for expanded ambient temperatures

Application Criteria	Cable and Lead Designation																								
	ÖLFLEX® HEAT 105 MC	ÖLFLEX® HEAT 145 MC	ÖLFLEX® HEAT 145 C MC	ÖLFLEX® HEAT 180 SiHF	ÖLFLEX® HEAT 180 H05SS-F EWKF	ÖLFLEX® HEAT 180 MS	ÖLFLEX® HEAT 180 C MS	ÖLFLEX® HEAT 180 EWKF	ÖLFLEX® HEAT 180 EWKF C	ÖLFLEX® HEAT 180 GLS	ÖLFLEX® HEAT 205 MC	ÖLFLEX® HEAT 260 MC	ÖLFLEX® HEAT 260 C MC	ÖLFLEX® HEAT 260 GLS	ÖLFLEX® HEAT 350 MC	ÖLFLEX® HEAT 1565 MC	ÖLFLEX® HEAT 145 SC	ÖLFLEX® HEAT 180 SiF	ÖLFLEX® HEAT 180 SiF/GL	ÖLFLEX® HEAT 180 SiD	ÖLFLEX® HEAT 180 SiZ	ÖLFLEX® HEAT 180 FZLSi	ÖLFLEX® HEAT 205 SC	ÖLFLEX® HEAT 260 SC	ÖLFLEX® HEAT 350 SC	ÖLFLEX® HEAT 1565 SC
Application																									
External and internal cabling of machinery	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
Internal wiring in cabinets																	●	●	●	●	●	●	●	●	●
In dry rooms	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
In dry and damp rooms	●	●	●	●	●	●	●	●	●		●	●	●				●	●	●	●	●	●	●	●	
For outdoor use, fixed installed and mech. protected	●	●	●	●	●	●	●	●	●		●	●	●												
Highest chemical resistance											●	●	●	●									●	●	
In EMI critical areas			●				●		●				●												
Suitable for the use in paint shop lines											○		●	●									○	●	
Temperature range																									
+1565° C																☒									☒
+400° C																□									□
+350° C															□									□	
+300° C												☒	☒	☒										☒	
+260° C												◪	◪	◪										□	
+200 °C				☒	☒	☒	☒	☒	☒	☒	◪							☒	☒	☒	☒	☒	□		
+180 °C				◪	◪	◪	◪	◪	◪	◪								□	□	□	□	□			
+145 °C		☒	☒														☒								
+125 °C		■	■														□								
+105 °C	☒																								
+90 °C	□																								
-20 °C	□																								
-35 °C		■	■																						
-50 °C		□	□	◪	◪	◪	◪	◪	◪	◪					□		□	□	□	□	□	□			□
-80 °C											■														
-100 °C											□												□		
-140 °C												■	■	■											
-190° C												□	□	□		□								□	□
Nominal voltage																									
300/500 V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
450/750 V		●	●														●								
600/1000 V		○	○														○								
10 kV																						●			
600 V according UL/CSA						●	●																		
Standards																									
Halogen free according IEC 60754-1		●	●	●	●	●	●	●	●	●							●	●	●	●	●	●			
Low smoke density according IEC 601034		●	●														●								
Low smoke toxicity according NES 02-713		●	●														●								
Flame retardant according IEC 60332-1-2	●	●	●	●	●	●	●	●	●	●	○	○	○	○	●	●	●	●	●	●	●	●	○	○	●	●
Low flame propagation according IEC 60332.3		●	●														●								
Based on VDE/HAR/DIN	●			●			●	●	●	●	●	●	●		●	●		●	●	●	●	●	●	●	●	●
With HAR certification					●																				
With UL/CSA certification						●	●																		
With GL resp. DNV certification		●	●											●			●								
Make-up																									
Solid conductor according VDE 0295 Class 1																				●					
Fine wired according VDE 0295 Class 5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●
PVC core insulation/sheath, heat resistant	●																								
Halogen free special core insulation/sheath		●	●														●								
Silicone core insulation/sheath				●	●	●	●	●	●	●								●	●	●	●	●			
Silicone, notch resistant (EWKF) sheath					●			●	●																
Fluoropolymer core insulation/sheath (FEP/PTFE)											●	●	●	●									●	●	
Glass fibre insulation/sheath															●	●			●						●
Core number printing according VDE 0293		●	●	●		●	●	●	●	●															
Core colour code according VDE 0293-308	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●									
Individual colours																	●	●	●	●	●	●	●	●	●
Common copper screening			●				●		●				●												
Steel wire armouring										●				●											

● = Principal application
○ = Application not customary, but possible, or alternative design available in the range

■ = Temperature range for flexible laying
◪ = Temperature range for static and flexible laying

□ = Temperature range for static laying
☒ = Temperature range for static laying (short-term)