

Cables for expanded ambient temperature ranges

Usage criteria	Cable designation																											
	ÖLFLEX® HEAT 105 MC	ÖLFLEX® HEAT 125 MC*	ÖLFLEX® HEAT 125 C MC*	ÖLFLEX® HEAT 180 SHF	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 125 SC	ÖLFLEX® HEAT 180 SIF	ÖLFLEX® HEAT 180 SIF A	ÖLFLEX® HEAT 180 SID	ÖLFLEX® HEAT 180 SIF/GL	ÖLFLEX® HEAT 180 SIZ	ÖLFLEX® HEAT 180 FZLSi	ÖLFLEX® HEAT 205 SC	ÖLFLEX® HEAT 260 SC	ÖLFLEX® HEAT 350 SC	ÖLFLEX® HEAT 1565 SC	ÖLFLEX® HEAT 650 SC
Use																												
Internal and external machine cabling	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internal wiring of control units/machinery	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In dry rooms	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In dry and damp rooms	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Outdoors, fixed installation (mech. protection)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Chemical resistance																												
In EMC-sensitive environments		✓				✓		✓																				
Suitable for extreme applications in paint shops										✓	✓	✓	✓												✓	✓		
Standards																												
Halogen-free according to IEC 60754-1		✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓	✓	✓	✓	✓	✓					
Low smoke density according to IEC 61034		✓	✓	✓													✓	✓	✓	✓	✓	✓	✓					
Low smoke toxicity according to NES 02-713		✓	✓	✓													✓	✓	✓	✓	✓	✓	✓					
Flame-retardant according to IEC 60332-1-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flame-retardant according to IEC 60332-3		✓	✓	✓													✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Based on VDE/HAR/DIN	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With VDE/HAR certification					✓												✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With UL/CSA certification		✓	✓			✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
With GL/DNV certification													✓				✓											
Temperature range																												
+1565 °C																	◆										◆	
+650 °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 as per UL/CSA							✓	✓																				
1000 V as per UL/CSA																												
Design																												
Solid wire as per VDE 0295, class 1																												
Fine-wire according to 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 core insulation/sheath																												
Printed numbers according to VDE 0293			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Colour code according to VDE 0293-308	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Individual colours																												
Overall screening			✓				✓	✓				✓																
Steel wire armouring										✓			✓															

✓ Main application/design ● Flexible use ▲ Fixed installation
 ✓ Possible application □ Fixed and flexible use ◆ Fixed installation (briefly)