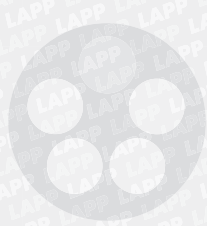


Usage criteria	Cable designation (fixed installation and/or occasional flexing)																													
	ÖLFLEX® CLASSIC 100 300/500 V	ÖLFLEX® CLASSIC 100 450/750 V	ÖLFLEX® CLASSIC 100 YELLOW	ÖLFLEX® CLASSIC 100 CY	ÖLFLEX® CLASSIC 100 SY	ÖLFLEX® CLASSIC 100 BK 0,6/1 KV	ÖLFLEX® SMART 108	ÖLFLEX® CLASSIC 110	ÖLFLEX® CLASSIC 110... BK	ÖLFLEX® CLASSIC 110 LT	ÖLFLEX® CLASSIC 110 ORANGE	ÖLFLEX® CLASSIC 110 CY	ÖLFLEX® CLASSIC 110 SY	ÖLFLEX® CLASSIC 110 BLACK 0,6/1 KV	ÖLFLEX® CLASSIC 110 CY BLACK 0,6/1 KV	ÖLFLEX® CLASSIC 115 CY	ÖLFLEX® EB	ÖLFLEX® EB CY	ÖLFLEX® 140*	ÖLFLEX® 140 CY*	ÖLFLEX® 150	ÖLFLEX® 150 CY	ÖLFLEX® 191	ÖLFLEX® 191 CY	ÖLFLEX® CONTROL TM	ÖLFLEX® CONTROL TM CY	ÖLFLEX® TRAY II	ÖLFLEX® TRAY II CY	ÖLFLEX® SF	
Use																														
For non-deactivatable circuits: EN 60204																														
For intrinsically safe circuits in hazardous areas/VDE 0165																														
Handheld devices and lights on building sites																														
Oil-resistant to UL + CSA specification																														
Enhanced oil resistance to VDE																														
Bio-oil-resistant																														
Chemical-resistant cables																														
UV-resistant cables																														
Servomotors/drive systems																														
For torsion in wind turbine generators (see catalogue page)																														
Standards																														
Based on standards, such as VDE, HAR or DIN, ...																														
According to standard with VDE certification																														
With VDE registration																														
With HAR certification																														
With UL certification																														
With CSA certification																														
Temperature range*																														
+105 °C																														
+90 °C																														
+80 °C																														
+70 °C																														
+60 °C																														
-5 °C																														
-10 °C																														
-15 °C																														
-25 °C																														
-30 °C																														
-40 °C																														
-50 °C																														
-55 °C																														
Installation																														
Outdoor use, unprotected, fixed installation																														
Outdoor use, UV light protection, fixed installation																														
Outdoor use, unprotected, occasional flexing																														
Inside, on plaster, in pipe/conduit, in partitions, fixed installation																														
Inside, occasional flexing																														
Bending radius (occasional flexing)																														
5 x D																														
10 x D																														
12.5 x D																														
15 x D																														
20 x D																														
Nominal voltage																														
300/500 V																														
600 V acc. to UL or CSA																														
450/750 V																														
600/1000 V																														
Design																														
Fine wire, VDE class 5, stranded copper conductor																														
Extra-fine wire, VDE class 6, stranded copper conductor																														
Ultra-fine wire, VDE class 6, stranded copper conductor																														
PUR core insulation																														
Rubber core insulation																														
PVC/special PVC core insulation																														
PE/PP core insulation																														
Halogen-free core insulation																														
Number printing																														
Colour code acc. to VDE 0293																														
ÖLFLEX® colour code																														
Screening Cu braid/cover																														
Shared inner sheath under overall screening/braid																														
Steel wire braiding																														
PVC sheath																														
PUR sheath, abrasion-resistant, cut-resistant																														
Halogen-free outer sheath																														
Bio-oil-resistant outer sheath P4/11																														
Rubber compound sheath acc. to standard																														

✓ Main application/design
 ✓ Possible application
 ● Flexible use
 □ Fixed and flexible use
 ▲ Fixed installation

*fixed or occ. bended

Usage criteria	Cable designation (fixed installation and/or occasional flexing)																									
	ÖLFLEX® CLASSIC 100 H	ÖLFLEX® CLASSIC 110 H	ÖLFLEX® CLASSIC 110 CH	ÖLFLEX® CLASSIC 130 H	ÖLFLEX® CLASSIC 135 CH	ÖLFLEX® CLASSIC 130 H BK0,6/1KV	ÖLFLEX® CLASSIC 135 CHBK0,6/1KV	ÖLFLEX® PETRO C HFFR	ÖLFLEX® ROBUST 200	ÖLFLEX® ROBUST 210	ÖLFLEX® ROBUST 215C	ÖLFLEX® CLASSIC 400 P	ÖLFLEX® CLASSIC 400 CP/415 CP	ÖLFLEX® CLASSIC 408 P	ÖLFLEX® CLASSIC 409 P	ÖLFLEX® 440 P/CP	ÖLFLEX® 450 P	ÖLFLEX® 500 P	ÖLFLEX® 540 P	ÖLFLEX® 540 CP	ÖLFLEX® 550 P*	H05RRR-F***	H05RNF-F***	H07RNF**	H07RNF, enhanced version	
Use	For non-deactivatable circuits: EN 60204																									
	For intrinsically safe circuits in hazardous areas/VDE 0165																									
	Handheld devices and lights on building sites																									
	Oil-resistant to UL + CSA specification																									
	✓	✓	✓																							
	Enhanced oil resistance to VDE																									
	✓	✓	✓																							
	Bio-oil-resistant																									
	✓	✓	✓																							
	Chemical-resistant cables																									
	UV-resistant cables																									
	See selection tables for chem. resistance T1 and T2																									
	✓	✓	✓																							
	Servomotors/drive systems																									
	✓		✓																							
	For torsion in wind turbine generators (see catalogue page)																									
	✓																									
	Long-time water submersion (AD 8)																									
	✓																									
Standards	Based on standards, such as VDE, HAR or DIN, ...																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	According to standard with VDE certification																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	With VDE registration																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	With HAR certification																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	With UL certification																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	With CSA certification																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	With GL certification																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Temperature range	+105 °C																									
	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	+90 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	+80 °C																									
	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	+70 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	+60 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	-5 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	-10 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	-15 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	-25 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	-30 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	-40 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	-50 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	-55 °C																									
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Installation	Outdoor use, unprotected, fixed installation																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Outdoor use, UV light protection, fixed installation																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Outdoor use, unprotected, occasional flexing																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Inside, on plaster, in pipe/conduit, in partitions, fixed installation																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Inside, occasional flexing																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bending radius (occasional flexing)	4 x D																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5 x D																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	6 x D																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	10 x D																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12.5 x D																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	15 x D																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	20 x D																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nominal voltage	300/500 V																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	600 V acc. to UL or CSA																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	450/750 V																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	600/1000 V																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1000 V acc. to UL or CSA																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Design	Fine wire, VDE class 5, stranded copper conductor																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Extra-fine wire, VDE class 6, stranded copper conductor																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ultra-fine wire, VDE class 6, stranded copper conductor																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PUR core insulation																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Rubber core insulation																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PVC/special PVC core insulation																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PE/PP core insulation																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Halogen-free core insulation																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Number printing																									
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Colour code acc. to VDE 0293																									
	✓	✓	✓	✓																						

Usage criteria	Cable designation (fixed installation and/or occasional flexing)																			
	H07ZZ-F***	NSSHÖU	H07RN8-F***	ÖLFLEX® SERVO 719	ÖLFLEX® SERVO 728 CY	ÖLFLEX® SERVO 2YSLY-YJB	ÖLFLEX® SERVO 719 CY	ÖLFLEX® SERVO 7DSL	ÖLFLEX® SERVO 9YSLY-YJB	SERVO cable acc. to LENZE® standard	ÖLFLEX® TORSION FRNC	ÖLFLEX® TORSION D FRNC	ÖLFLEX® CRANE NSHTÖU	ÖLFLEX® CRANE VS (N)SHTÖU	ÖLFLEX® CRANE PUR	ÖLFLEX® CRANE	ÖLFLEX® LIFT	ÖLFLEX® LIFT T	ÖLFLEX® LIFT S	
Use																				
For non-deactivatable circuits: EN 60204																				
For intrinsically safe circuits in hazardous areas/VDE 0165																				
Handheld devices and lights on building sites	✓	✓	✓										✓	✓	✓					
Oil-resistant to UL + CSA specification				✓	✓		✓	✓				✓	✓	✓	✓					
Enhanced oil resistance to VDE	✓	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓					
Bio-oil-resistant																				
Chemical-resistant cables																				
UV-resistant cable						✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Servomotors/drive systems				✓	✓	✓	✓	✓	✓	✓										
For torsion in wind turbine generators (see catalogue page)											✓	✓								
Long-time water submersion (AD 8)			✓																	
Standards																				
Based on standards, such as VDE, HAR or DIN, ...				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
According to standard with VDE certification		✓																		
With VDE registration																				
With HAR certification	✓		✓																	
With UL certification				✓	✓		✓	✓	✓	✓	✓	✓								
With CSA certification				✓	✓		✓	✓	✓	✓	✓	✓								
Temperature range																				
+105 °C																				
+90 °C	□	□																		
+80 °C				●	▲															
+70 °C				□	□	▲	□	□												
+60 °C																				
-5 °C	●		●	●	●		●	●												
-10 °C																				
-15 °C																				
-25 °C		●	●										●	●			●			
-30 °C																				
-40 °C	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲										
-45 °C												□	□							
-50 °C																				
-55 °C																				
Installation																				
Outdoor use, unprotected, fixed installation		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Outdoor use, UV light protection, fixed installation		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Outdoor use, unprotected, occasional flexing																				
Inside, on plaster, in pipe/conduit, in partitions, fixed installation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inside, occasional flexing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bending radius (occasional flexing)																				
5 x D	✓	✓																		
6 x D	✓	✓																		
7.5 x D																				
10 x D		✓																		
12.5 x D																				
15 x D				✓	✓		✓	✓												
20 x D						✓			✓								✓	✓	✓	✓
Nominal voltage																				
300/500 V																				
600 V acc. to UL or CSA										✓							✓	✓	✓	✓
450/750 V	✓	✓	✓																	
600/1000 V		✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓					
1000 V acc. to UL or CSA				✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓					
Design																				
Fine wire, VDE class 5, stranded copper conductor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
Extra-fine wire, VDE class 6, stranded copper conductor											✓	✓								
Ultra-fine wire, VDE class 6, stranded copper conductor																				
PUR core insulation																				
Rubber core insulation	✓	✓	✓																	
PVC/special PVC core insulation																				
PE/PP core insulation				✓	✓	✓	✓	✓	✓	✓										
Halogen-free core insulation																				
Number printing	✓	✓	✓																	
Colour code acc. to VDE 0293	✓	✓	✓																	
ÖLFLEX® colour code																				
Tensile strain relief element (ZEE)																				
Screening Cu braid/cover				✓	✓	✓	✓	✓	✓											
Shared inner sheath under overall screening/braid																				
Steel wire braiding																				
Jacket-integrated support braid against torsion + ovalisation													✓	✓	✓					
PVC sheath				✓	✓	✓	✓	✓	✓	✓										
PUR sheath, abrasion-resistant, cut-resistant																				
Halogen-free outer sheath	✓	✓	✓																	
Bio-oil-resistant outer sheath P4/11																				
Rubber compound sheath acc. to standard	✓	✓	✓																	

✓ Main application/design
 ✓ Possible application
 ● Flexible use
 □ Fixed and flexible use
 ▲ Fixed installation

***Acc. to DIN EN 50565-1 (VDE 0298-565-1); with other applications, partially different bending radii acc. to DIN EN 50565-1 (VDE 0298-565-1), in some cases up to 8x D