
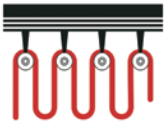
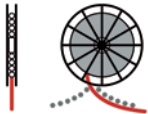

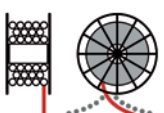
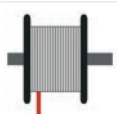


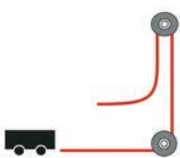

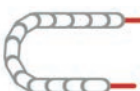


Usage criteria	Cable designation																			
Page	172	178	176	177	174	175	173	169	170	171	131	312	349							
ÖLFLEX® CRANE																				
ÖLFLEX® LIFT F*																				
ÖLFLEX® CRANE F																				
ÖLFLEX® CRANE CF																				
ÖLFLEX® LIFT																				
ÖLFLEX® LIFT T																				
ÖLFLEX® LIFT S																				
ÖLFLEX® CRANE 2S																				
ÖLFLEX® CRANE NSHTÖU**																				
ÖLFLEX® CRANE VS (N)SHTÖU																				
ÖLFLEX® CRANE PUR																				
ÖLFLEX® CLASSIC FD 810 P																				
UNITRONIC® FD CP plus (TP) plus																				
UNITRONIC® BUS PB FESTOON																				
Use																				
For cable trailer guide systems	See separate selection table "Applications" A3-2																			
Fixing via rollers, drum motors	See separate selection table "Applications" A3-2																			
Reeling/re-routing under tensile load	See separate selection table "Applications" A3-2																			
For free-hanging use in lifting/conveying systems	✓	✓	✓	✓	✓	✓			✓	✓										
For free-hanging use with additional load	✓							✓		✓	✓									
For outdoor use	✓		✓	✓	✓	✓	✓	✓	✓	✓										
For short travel distances, inside	✓	✓	✓	✓	✓	✓			✓	✓	✓									
For short travel distances, outside	✓		✓	✓	✓	✓			✓	✓	✓									
For use in power chains	See separate selection table "FD" A3-2																			
Standards																				
In accordance with VDE/HAR/DIN	✓	✓	✓	✓			✓	✓		✓	✓									
With VDE approval									✓											
With VDE registration																				
Flame-retardant acc. to IEC 60332-1-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
Temperature range																				
+90 °C			□	□																
+80 °C	□								□	□	□	▲	□	□						
+70 °C		□			□	□	□	□				●		●						
+60 °C																				
+5 °C																				
0 °C		●																		
-5 °C														●					●	
-10 °C																				
-15 °C		●			●	●	●	●												
-20 °C																				
-25 °C	●		●	●					●	●										
-30 °C																				
-40 °C	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	□	▲	□	□						
Bending radius																				
7.5 x D										✓	✓	✓	✓							
10 x D		✓	✓	✓																
12.5 x D	✓																			
20 x D					✓	✓	✓	✓												
Nominal voltage																				
300/500 V	✓	✓	✓	✓	✓	✓	✓					✓								
450/750 V		✓																		
600/1000 V									✓	✓	✓									
Design																				
PVC core insulation		✓			✓	✓	✓	✓				✓								
TPE core insulation																				
Poly-olefine based core insulation																				
Rubber core insulation		✓		✓						✓										
Supporting element: hemp/textile rope		✓			✓	✓														
Supporting element: steel rope, internal							✓													
Supporting element: steel rope, external								✓												
Supporting element: Kevlar rope					✓	✓				✓	✓									
Outer sheath with supporting braid									✓	✓	✓									
PVC sheath		✓			✓	✓	✓													
PUR sheath																				
Rubber sheath	✓		✓	✓																

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

*Min. conductor temperature -15 °C with flexible application and nominal voltage $U_0/U = 450/750 V_{ac}$ only from nominal conductor cross-section of 1.5 mm²
 **Min. bending radius 5 x D only if outer diameter < 21.5 mm

Usage criteria		Cable designation														
		Page	169	170	171	172	177	173	174	175	176	178	131	312	349	
			ÖLFLEX® CRANE NSHTÖU	ÖLFLEX® CRANE VS (N)SHTÖU	ÖLFLEX® CRANE PUR	ÖLFLEX® CRANE	ÖLFLEX® CRANE CF	ÖLFLEX® CRANE 2S	ÖLFLEX® LIFT	ÖLFLEX® LIFT T	ÖLFLEX® LIFT S	ÖLFLEX® CRANE F	ÖLFLEX® LIFT F	ÖLFLEX® CLASSIC FD 810 P	UNITRONIC® FD CP plus/(TF) plus	UNITRONIC® BUS PB FESTOON
 Application																
Cable trailer systems						✓	✓					✓	✓	✓	✓	✓
Reeling, light stress (monospiral configuration – stacked)			✓	✓	✓											
Reeling, moderate stress (multispiral configuration – single layer)			✓	✓	✓											
Reeling, moderate stress (multispiral configuration – multilayer)			✓	✓	✓											
Vertical reeling				✓	✓											
Reel storage (horizontal)				✓	✓											
Reel storage (vertical)					✓											
Re-routing under tensile load				✓	✓											
Push-button control unit				✓	✓			✓								
Drag chain			✓	✓	✓	✓						✓	✓	✓	✓	
Lift									✓	✓	✓	✓	✓			

✓ Main application
 ✓ Possible application