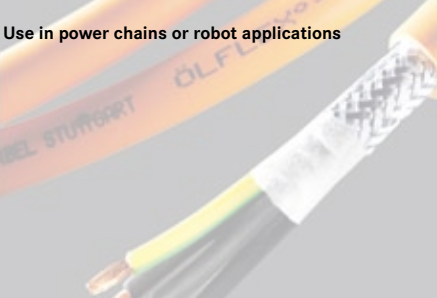


A2 Selection Table

A2: Highly Flexible FD Cables – for use in power chains or robot applications

Application Criteria	Cable and Lead Designation																										
 Use in power chains or robot applications	ÖLFLEX® SERVO FD 750 P	ÖLFLEX® SERVO FD 755 P	ÖLFLEX® SERVO FD 755 CP	ÖLFLEX® SERVO FD 760 CP	ÖLFLEX® SERVO FD 770 CP	ÖLFLEX® SERVO FD 781 CY	ÖLFLEX® SERVO FD 781 P	ÖLFLEX® SERVO FD 781 CP	ÖLFLEX® SERVO FD 785 P	ÖLFLEX® SERVO FD 785 CP	ÖLFLEX® SERVO FD 790 CP	ÖLFLEX® SERVO FD 795 P	ÖLFLEX® SERVO FD 795 CP	SERVO-cable acc. SIEMENS Standard 6FX 5008-	SERVO-cable acc. SIEMENS Standard 6FX 7008-	SERVO-cable acc. SIEMENS Standard 6FX 8008- green or orange	SERVO-cable acc. SIEMENS Standard 6FX 8PLUS- green or orange	SERVO-cable acc. Indramat Standard INK	ÖLFLEX® FD CLASSIC 810	ÖLFLEX® FD CLASSIC 810 CY	ÖLFLEX® FD CLASSIC 810 P	ÖLFLEX® FD CLASSIC 810 CP	ÖLFLEX® FD 820 H	ÖLFLEX® FD 820 CH	ÖLFLEX® FD ROBUST	ÖLFLEX® FD ROBUST C	
	Application																										
	For industrial machinery to EN 60204. part 1/VDE 0113	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	For frequency-converter driven servo drives	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	For servo motor, low capacitance		•	•		•	•	•	•							•		•	•							•	•
	For encoders, feedback systems, sensors				•	•									•		•	•	•								
	For free arm robots/torsion load																										
	Restricted guidance over rollers, motor drums																										
	For indoor application	•	•	•	•	•	•		•	•	•		•	•			•	•	•	•	•	•	•	•	•	•	•
	For outdoor application		•	•	•	•		•	•	•	•		•	•		•	•	•	•							•	•
	For field bus systems																										
	For video transmission, RGB signal transmission																										
	For North America with UL + CSA approvals												•	•	•	•	•	•	•								
	For use in oily environments, enhanced oil resistance	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•			•	•			•	•
	For use in areas with bio oils																								•	•	
Temperature																											
+105 °C																									■	■	
+90 °C			□	□												□											
+80 °C			■	■												■											
+70 °C			■	■													■										
+60 °C			■																								
+5 °C																											
-5 °C																											
-10 °C			■																								
-20 °C																											
-30 °C			□																								
-40 °C				■	■	■	■	□	□	□																	
-50 °C				□	□	□	□			□	□	□	□				□	□	□						□	□	
Minimum bending radius factor for continuous flexing																											
5 x D			•											•													
6.5 x D																											
7.5 x D				•				•	•	•																	
10 x D																											
12.5 x D			•																								
15 x D																											
20 x D																											
Laying																											
For chains with small radii	○	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
For chains with restricted space	○	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
For low cable weight in the chain																											
For 24-hour operation at high numbers of cycles	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
For high acceleration values > 10 m/s²	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
For very high acceleration up to 50 m/s²																											
For travel speeds up to 5 m/s, up to 10 m travel length	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
For travel speeds up to 10 m/s, up to 10 m travel length	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
For travel speeds up to 5 m/s, up to 100 m travel length	○	•	•	•	•	•				•	•	•	•		•	•	•	•	○	○	○	○	○	○	•	•	
Movement parameters																											
350 Vss				•	•										•		•	•	•								
30/300 V AC																											
300/500 V AC																											
600/1000 V AC	•	•	•				•	•	•	•	•	•	•		•	•	•	•			•	•	•	•	•	•	
600 V acc. to UL/CSA																											
Make-up																											
Fine wire VDE class 5, copper stranded conductor														•													
Superfine wire VDE class 6, copper stranded conductor	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•	•	
Ultra fine wire VDE class 6, copper stranded conductor																											
PVC/special PVC, core insulation	•													○						•	•	•					
Elastomer core insulation																											
PE/cellular PE/cellular PE foam skin																											
Polyethylene/Polypropylene								•	•	•								•									
TPE core insulation	•	•	•	•	•					•	•					•		○									
Special TPE (P4/11) core insulation																											
Halogen free compound																											
Number printing	•	•	•				•	•	•	•	•	•	•		•	•		•			•	•	•	•	•	•	
VDE colour code																											
DIN 47100 colour code/special colour code																											
Pair screening PiCY/PiMF/STP	•	•	•									○	○	○		•	•	•	○	•	•	•					
Total screening				•	•	•		•			•				•	•	•	•				•				•	
Special PVC sheath																											
PUR sheath, wear resistant, cutting resistant	•	•	•	•	•			•	•	•	•	•	•			•	•	•	•			•	•				
Rubber sheath																											
TPE (P4/11) sheath bio oil resistant																											
Halogen free compound																											

• = 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

[illegible]

● = 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