

- = 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

A1 Selection Table

A1: Power and control cables

[illegible]

** Oil resistance according to SEV TB20B/3C.

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Application Criteria	Cable and Lead Designation																			
For static and occasional flexing use	H07ZZ-F	NSSHÖU	H07RN8-F	H07BN4-F Wind Class5 & Class6	ÖLFLEX® SERVO 700	ÖLFLEX® SERVO 700 CY	ÖLFLEX® SERVO 720 CY	ÖLFLEX® SERVO 730	ÖLFLEX® SERVO 730 CY	ÖLFLEX® SERVO 2YSLCY	ÖLFLEX® SERVO 709 CY	SERVO-cable acc. to SIEMENS Fx5	ÖLFLEX® VFD w. Signal	ÖLFLEX® SERVO 9YSLCY	SERVO-cable acc. to SEW-Standard	ÖLFLEX® TORSION	ÖLFLEX® TORSION FRNC	ÖLFLEX® TORSION D FRNC	ÖLFLEX® CRANE	
Application																				
Excepted circuits remain energized acc. IEE 60204-1 § 5.3.5																				
For intrinsically safe circuits in hazardous locations to /VDE 0165																				
Hand tools and lamps on worksites	•	•	•									•	•	•			•	•		
Oil resistant to UL + CSA specification												•	•	•			•			
Oil resistant to VDE	•	•	•	•								•	•	•		•			•	
Bio oil resistant																				
Cables resistant to chemicals																				
Cables resistant to ultra-violet light		○	•	•							○				○	•	•	•	•	
Cold-flexible cables	○	•	•	•						•				○		•	•	•	•	
Servomotors/Motive power engineering					•	•	•	•	•	•	•	•	•	•	•	○	○	○		
Standards																				
Based on VDE/HAR/DIN			•		•	•	•	•	•	•	•	•		•		•	•	•	•	
As per Standard with VDE certification																				
with VDE registration																				
with HAR certification (HAR)	•		•	•	•							•	•	•	•		•	•		
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																				
Laying																				
Outdoor, only indirectly in the ground (conduit) UV-protected, static laying		•	•								○				○	•	•	•	•	
Indoor, on surface, in conduit, in ducting, in partition walls, static laying	•	○	•	•	•	•	•	•	•	•	•	○			•	•	•	•	•	
Outdoor, protected against UV light, static laying	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	
Outdoor, unprotected in the open, low flexing		•	•	•	•	•	•	•	•	•	○				○	•	•	•	•	
Indoor low flexing applications	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Bending radius, low flexing																				
5 x D	•		•	•						•				•						
10 x D		•											•			•	•	•		
12.5 x D																			•	
15 x D									•			•			•					
20 x D					•	•	•	•	•	•	•			•						
Nominal voltage																				
250 V					•	•														
300/300 V																				
300/500 V																				
600 V acc. to UL/CSA												•	•	•		•			•	
450/750 V	•		•	•												•				
600/1000 V		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Make-up																				
Fine-wire VDE class 5, copper stranded conductors	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	
Superfine wire VDE class 6, copper stranded conductors				•												•	•	•	•	
Ultra fine wire VDE class 6, copper stranded conductors																				
Polyurethane core insulation																				
Rubber core insulation	•	•	•	•															•	
PVC/special PVC					•	•	•	•	•	•	•	•	•			•				
PE/PP core insulation										•		•		•						
Halogen free core insulation	•														•		•	•	•	
Number printing	•	•	•		•	•			•						•	•	•	•	•	
Colour code to VDE 0293	•	•	•							•				•		•	•	•	•	
ÖLFLEX® colour code																				
Screening on the form of copper braiding					•	•			•	•	•	•	•	•				•		
Common inner sheath under overall protection/braiding									•											
Steel wire braiding					•	•	•	•	•	•	•	•	•	•	•	•				
PVC sheath					•	•	•	•	•	•	•	•	•	•	•	•				
PUR sheath, wear resistant, cutting resistant																				
Halogen free outer sheath	•																•	•		
Bio oil resistant outer sheath P4/11																				
Outer sheath of synthetic rubber																				
Outer sheath of Neoprene® rubber																				
Outer sheath of rubber compound acc. to standard	•	•	•	•															•	

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