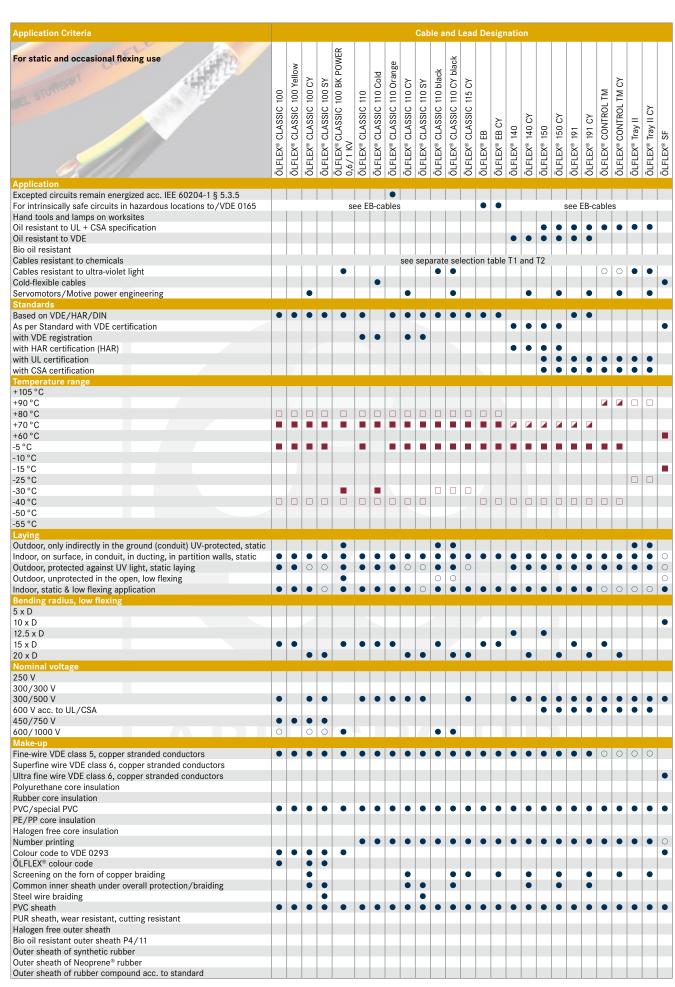


Selection Table

A1: Power and control cables



- 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

HITRONIC®

## Appendix A1 Selection Table

A1: Power and control cables



Application Criteria										C	abl	e an	d Le	ead	Des	igna	atio	n								
For static and occasional flexing use	SIC 100 H	SIC 110 H	SIC 110 CH		Ŧ	SIC 130 H	SIC 135 CH	ÖLFLEX® CLASSIC 130 H BK 0,6/1 KV	ÖLFLEX® CLASSIC 135 CHBK 0,6/1 KV	O C HFFR	ST 200	ST 210	ST 215C	SIC 400 P	ÖLFLEX® CLASSIC 400 CP/415 CP	//CP		ROL M	SI				ė.			
Application	ÖLFLEX® CLASSIC 100 H	ÖLFLEX® CLASSIC 110 H	ÖLFLEX® CLASSIC 110 CH	ÖLFLEX® 120 H	ÖLFLEX® 120 CH	ÖLFLEX® CLASSIC 130 H	ÖLFLEX® CLASSIC 135 CH	ÖLFLEX® CLASS	ÖLFLEX® CLASS	ÖLFLEX® PETRO C HFFR	ÖLFLEX® ROBUST 200	ÖLFLEX® ROBUST 210	ÖLFLEX® ROBUST 215C	ÖLFLEX® CLASSIC 400 P	ÖLFLEX® CLAS	ÖLFLEX® 440 P/CP	ÖLFLEX® 491 P	ÖLFLEX® CONTROL	ÖLFLEX® FORTIS	ÖLFLEX® 450 P	ÖLFLEX® 500 P	ÖLFLEX® 540 P	ÖLFLEX® 540 CP	ÖLFLEX® 550 P	H05RR-F	HO5RN-F
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 Dil resistant to UL + CSA specification Dil resistant to VDE Bio oil resistant	**	•	•							•	•	•	see E	B-c	able	s	•	•	•	•	•	•	•	•	•	•
Cables resistant to chemicals Cables resistant to ultra-violet light Cold-flexible cables Gervomotors/Motive power engineering Standards	•	•	•	•	•		•	•	S	ee s	epa	rate •	sele	ctio	n ta	ble o	Г1 а	nd T	2	0	•	•	0	0	•	•
Based on VDE/HAR/DIN us per Standard with VDE certification with VDE registration with HAR certification (HAR) with UL certification with CSA certification		•	•		•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•	•
emperature range -105 °C																										
90°C 80°C 70°C 60°C																					•					
5°C 10°C																										
15 °C 25 °C																										
80 °C 10 °C																										
60 °C 55 °C aying																										
utdoor, only indirectly in the ground (conduit) UV-protected, static laying door, on surface, in conduit, in ducting, in partition walls, static laying utdoor, protected against UV light, static laying utdoor, unprotected in the open, low flexing	g •	•	•	•	•	•	•	0 • 0	0 • 0	•	• • • • • •	• • •	•	•	•	•	• • •	•	•	• • •	• •	•	•	•	•	0
door low flexing applications ending radius, low flexing	0	•	•			0	0			•	•		•	•	•		•	0	•			•	•	•	•	
x D ) x D 5 x D		•									•			•		•		•	•		•	•	•	•	•	
5 x D D x D	•		•		•	•	•		•			•	•		•		•			•						
ominal voltage 0 V																										
0/300 V 0/500 V 0 V acc. to UL/CSA 0/750 V	•	•	•	•	•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
00/1000 V ake-up	0							•	•	•				_												
ne-wire VDE class 5, copper stranded conductors perfine wire VDE class 6, copper stranded conductors tra fine wire VDE class 6, copper stranded conductors lyurethane core insulation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
ubber core insulation /C/special PVC E/PP core insulation														•	•		•	•	•	•				•	•	•
JPP COTE INSURATION  Jologen free core insulation  John State of the s	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
JIGUT CODE TO VD2 93  FILEX® colour code  preening on the forn of copper braiding  prommon inner sheath under overall protection/braiding  eel wire braiding  C sheath			•		•		•		•	•			•		•	0			•				•			
JR sheath, wear resistant, cutting resistant alogen free outer sheath o oil resistant outer sheath P4/11 uter sheath of synthetic rubber	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0		•	•	•	•	•		
uter sheath of Neoprene® rubber																										

<sup>\*\*</sup> Oil resistance according to SEV TB20B/3C.

Neoprene® is a registered trademark of DuPont de Nemour

<sup>=</sup> Principal application

Application not customary, but possible, or alternative design available in the range

 <sup>■ =</sup> Temperature range for flexible laying
 ☑ = Temperature range for static and flexible laying
 □ = Temperature range for static laying



Selection Table A1

A1: Power and control cables

Application
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 UL + CSA specification Oil resistant to Ultraviolet light Cables resistant to chemicals Cables resistant to ultraviolet light Cold-flexible cables Servomotors/Motive power engineering Standards Standards Standards Standards With UDE certification With VDE certification With VDE resistration With UDE resistration With
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 to VDE Bio oil resistant to WE Bio oil resistant to W
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 VDE registratio
Based on VDE/HAR/DIN As per Standard with VDE certification with VDE registration 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 -55 °C -10 °C -15 °C -30 °C -40 °C -55 °C -30 °C -40 °C -55 °C -55 °C -55 °C -10 °C -55 °C -10 °C
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 -50 °C -50 °C -50 °C -50 °C -50 °C -55 °C -10 °
+105 °C +90 °C +80 °C +70 °C +60 °C -5 °C -15 °C -25 °C -30 °C -40 °C -55 °C -55 °C -40 °C -55 °C -40 °C -55 °C -40 °C -55 °C -40 °C -55 °C -55 °C -55 °C -55 °C
+80°C
+60°C -5°C -10°C -15°C -25°C -25°C -30°C -40°C -55°C -55°C -55°C -50°C -50°C -50°C -50°C
-10 °C -15 °C -25 °C -30 °C -40 °C -50 °C -55 °C Laying
-25 ° C -30 ° C -40 ° C -50 ° C -55 ° C Laying
-30 °C -40 °C -50 °C -55 °C Laying
-50 °C -55 °C Laying
-55 °C 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
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
Number printing
Colour code to VDE 0293  ÖLFLEX® colour code
Screening on the forn 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
1
Outer sheath of Neoprene® rubber

- 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