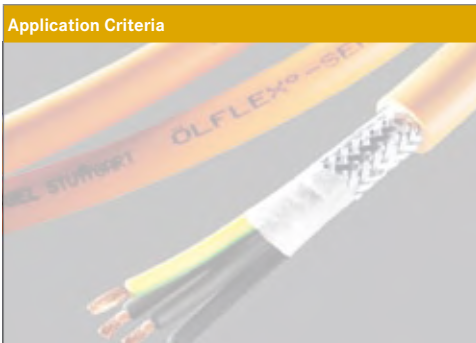


Application Criteria	Cable and Lead Designation																												
	ÖLFLEX® SOLAR XL multi	ÖLFLEX® SOLAR XLR/XLR TF	ÖLFLEX® SOLAR XLSV	ÖLFLEX® CRANE PUR	ÖLFLEX® HEAT 145 MC	ÖLFLEX® HEAT 145 C MC	ÖLFLEX® HEAT 180 SIHF	ÖLFLEX® HEAT 180 HOESS-F EWKF	ÖLFLEX® HEAT 180 MS	ÖLFLEX® HEAT 180 C MS	ÖLFLEX® HEAT 180 EWKF	ÖLFLEX® HEAT 180 EWKF C	ÖLFLEX® HEAT 180 GLS	ÖLFLEX® HEAT 145 SC	ÖLFLEX® HEAT 180 single cores	ÖLFLEX® TORSION FRNC	ÖLFLEX® TORSION D FRNC	H05Z-K, H07Z-K 90 °C	X05Z-K, X07Z-K 110 °C	(N)HXMH	ÖLFLEX® SPIRAL 540 P	UNITRONIC® BUS PB 7-W	UNITRONIC® L1HCH	UNITRONIC® L1HCH (TP)	UNITRONIC® BUS EIB	UNITRONIC® BUS P COMBI IBS	UNITRONIC® BUS FD P IBS	UNITRONIC® BUS LD FD P	
Application																													
Machinery and industrial installation:																													
- External cabling of machinery	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
- Internal cabling in cabinets														●	●			●	●										
Other circuits in buildings:																													
- Lightning circuits																		●	●	●									
- Power circuits											●						●	●			●								
- Data network cables																													
Standards																													
Low smoke density	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Low toxicity of the smoke	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Flame retardant to IEC 60 332.1-2	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Flame retardant to IEC 60 332.3					●	●								●			●	●											
Based on VDE/HAR/DIN/UL							●				●				●							●							
With certification VDE/HAR/DIN/UL/TÜV	●	●		●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	○				○	○	○	○
Temperature range																													
+180 °C							■	■	■	■	■	■	■	■	■	■	■												
+145 °C					□	□								□															
+120 °C	■	■			■	■								■															
+110 °C																			□										
+90 °C				■													■	■	□										
+80 °C				■																				□	□				
+70 °C																							□			■	■	■	■
+50 °C																							■						
0 °C																													
-5 °C																										□			
-15 °C																													
-25 °C																													
-30 °C																									□		□	□	
-40 °C	■	■	■	■	■	■																							
-50 °C	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
-60 °C																													
Nominal voltage																													
250 Vss																													
300/500 V																													
450/750 V																													
600/1000 V	●	●	●	●	○	○								○															
1.8/3 KV																													
3.6/6 KV																													
Make-up																													
Solid wire VDE 0295 class 1																						○							
Multi wire VDE 0295 class 2																													
Fine wire VDE 0295 class 5	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Superfine wire VDE 0295 class 6				●																									
Number printing VDE 0293					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Colour code to VDE 0293-308, HD308 S2					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Colour code to DIN 47100																													
Colour code for indoor telephone cables																													
Special colour code																													
Individual colours	●	●	●											●	●														

Further halogen free cables and leads on request.

- = 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

Halogen free accessories:

Protective conduits

SILVYN® RILL PA6	SILVYN® EMC AS-CU
SILVYN® RILL PA12	SILVYN® SSUE
SILVYN® FPAS	SILVYN® UI 511
SILVYN® HCC	SILVYN® HFX
SILVYN® LCCH-2	SILVYN® CHAIN
SILVYN® AS	SILVYN® CHAIN STEEL
SILVYN® EDU-AS	SILVYN® MY PRO JACKET

Cable Glands

SKINTOP® ST-HF-M
SKINTOP® GMP-HF-M
SKINTOP® BLK-GL-M
SKINTOP® GMP-GL-M
SKINDICHT® KW-M
SKINDICHT® KU-M
SKINDICHT® EKU-M

Cable Marking

FLEXIMARK® single core marking
Flexipart, Marking collar, Flexiprint
FLEXIMARK® cable marking
System MINI, shrink tube marking
FLEXIMARK® Component marking
Engraved markers BMK, LB labels
DYMO® label strips


Accessories

Metal plates, Conductor end sleeves insulated
Insulated cable lugs, Insulating tape TBTA
Shrink tubing CMP/PKG/HSB/PLG
TEC sealing cap
TEB branch muff
KW plastic coil
Cable ties Basic Tie/TY-RAP®/TY-FAST®

ÖLFLEX®
 UNITRONIC®
 ETHERLINE®
 HITRONIC®
 EPIC®
 SKINTOP®
 SILVYN®
 FLEXIMARK®
 ACCESSORIES
 APPENDIX

A4 Appendix
Selection Table

A4: Halogen free Cables and Leads

Application Criteria										
	UNITRONIC® BUS AS-INTERFACE	ETHERLINE® H	LAN UTP-H CAT.5+6 halogen free	LAN FTP-H CAT.5+6 halogen free	LAN S-FTP-H CAT.5+6 halogen free	LAN STP-H CAT.6 halogen free	UNITRONIC® FD P plus	UNITRONIC® FD CP plus	UNITRONIC® FD CP (TP) plus	UNITRONIC® LIHH, LIHCH, LIHCH (TP)
Application										
Machinery and industrial installation:										
- External cabling of machinery	●	●					●	●	●	●
- Internal cabling in cabinets										
Other circuits in buildings:										
- Lightning circuits			●	●	●	●				
- Power circuits										
- Data network cables			●	●	●	●				
Standards										
Low smoke density		●	●	●	●	●	●	●	●	●
Low toxicity of the smoke		●	●	●	●	●	●	●	●	●
Flame retardant to IEC 60 332.1-2		●	●	●	●	●	●	●	●	●
Flame retardant to IEC 60 332.3		●	●	●	●	●	●	●	●	●
Based on VDE/HAR/DIN/UL		●	●	●	●	●	●	●	●	●
With certification VDE/HAR/DIN/UL/TÜV/GL/DNV	○						●	●	●	
Temperature range										
+180 °C										
+145 °C										
+120 °C										
+110 °C										
+90 °C										
+80 °C										□
+70 °C	□	□	□	□	□	□	■	■	■	
+50 °C										
0 °C										
-5 °C		□								
-15 °C										
-25 °C										
-30 °C		□	□	□	□	□				□
-40 °C							■	■	■	
-50 °C										
-60 °C										
Nominal voltage										
250 Vss	●	●	●	●	●	●	●	●	●	●
300/500 V										
450/750 V										
600/1000 V										
1.8/3 KV										
3.6/6 KV										
Make-up										
Solid wire VDE 0295 class 1	●	●	●	●	●	●				
Multi wire VDE 0295 class 2										
Fine wire VDE 0295 class 5	●								●	
Superfine wire VDE 0295 class 6							●	●	●	
Number printing VDE 0293										
Colour code to VDE 0293-308, HD308 S2	●									
Colour code to DIN 47100							●	●	●	●
Colour code for indoor telephone cables										
Special colour code	●	●	●	●	●					
Individual colours										

Further halogen free cables and leads on request.

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SKINDICHT® EKU-M

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Flexipart, Marking collar, Flexiprint
FLEXIMARK® cable marking
System MINI, shrink tube marking
FLEXIMARK® Component marking
Engraved markers BMK, LB labels
DYMO® label strips

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Metal plates, Conductor end sleeves insulated
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Shrink tubing CMP/PKG/HSB/PLG
TEC sealing cap
TEB branch muff
KW plastic coil
Cable ties Basic Tie/TY-RAP®/TY-FAST®

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