

A4 Appendix
Selection Table

A4: Halogen free Cables and Leads

Application Criteria	Cable and Lead Designation																														
	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® CLASSIC 130 H BK 0,6/1 KV	ÖLFLEX® CLASSIC 135 CH BK 0,6/1 KV	ÖLFLEX® PETRO C HFFR	ÖLFLEX® 440 P	ÖLFLEX® 440 CP	ÖLFLEX® 540 P	ÖLFLEX® 540 CP	H07ZZ-F	NSHXAFÖ	ÖLFLEX® SERVO FD 755 P	ÖLFLEX® SERVO FD 755 CP	ÖLFLEX® SERVO FD 760 CP	ÖLFLEX® SERVO FD 770 CP	ÖLFLEX® SERVO FD 781 P	ÖLFLEX® SERVO FD 785 P	ÖLFLEX® SERVO FD 785 CP	SERVO-cable acc. SIEMENS Standard 6FX 8Plus	ÖLFLEX® FD 820 H	ÖLFLEX® FD 820 CH	ÖLFLEX® FD 855 P	ÖLFLEX® FD 855 CP	ÖLFLEX® TRAFFIC 3GKW/3GKW flex/3GKW C-flex	ÖLFLEX® TRAFFIC 4GKW-Axplus/C-flex	ÖLFLEX® SOLAR XLS/XLS V4A
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	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
High ignition temperature 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.

- = 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

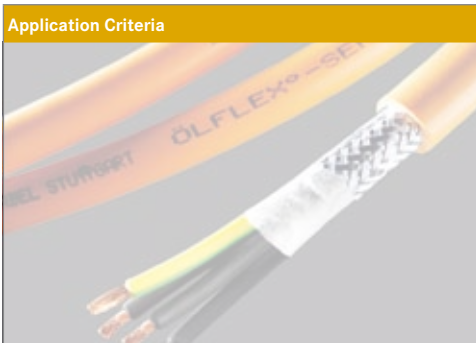
SKINTOP® ST-HF-M
SKINTOP® GMP-HF-M
SKINTOP® BLK-GL-M
SKINTOP® GMP-GL-M
SKINDICHT® KW-M
SKINDICHT® KU-M
SKINDICHT® EKU-M

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®

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 SHF	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 (TF)	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
- (with diagonal line) = 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

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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										

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SILVYN® HCC	SILVYN® HFX
SILVYN® LCCH-2	SILVYN® CHAIN
SILVYN® AS	SILVYN® CHAIN STEEL
SILVYN® EDU-AS	SILVYN® MY PRO JACKET

Cable Glands

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

Cable Marking

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

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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®