

Application Criteria	Cable and Lead Designation																												
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®

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										

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Cable Marking

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TEB branch muff
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