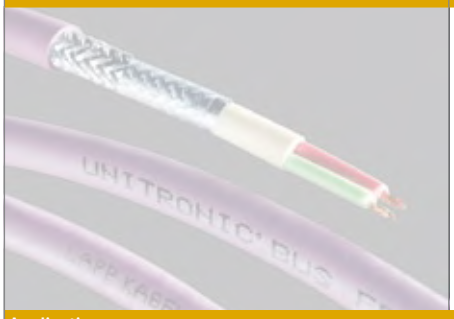
A5: Data transmission cables for low-frequency analog/digital transmissions



Application Criteria	Cable and Lead Designation																											
	UNITRONIC® LiYY	UNITRONIC® LiYCY	UNITRONIC® LiYY (TP)	UNITRONIC® LiYCY (TP)	UNITRONIC® PUR CP	UNITRONIC® PUR CP (TP)	UNITRONIC® LiHH	UNITRONIC® LiHCH	UNITRONIC® LiHCH (TP)	UNITRONIC® 100	UNITRONIC® 100 CY	UNITRONIC® LiYCY-CY	UNITRONIC® LiFYCY (TP)	UNITRONIC® CY PiDY (TP)	UNITRONIC® LiYD11Y	UNITRONIC® ST	UNITRONIC® FD	UNITRONIC® FD CY	UNITRONIC® FD P plus	UNITRONIC® FD CP plus	UNITRONIC® FD CP (TP) plus	UNITRONIC® Li2YCY(TP)-Li2YCYv (TP)	UNITRONIC® Li2YCY PiMF	JE-Y(ST)Y	JE-LiYCY (TP)	Telephone indoor cable J-Y(ST)Y	Fire alarm cable J-Y(ST)Y red	UNITRONIC® J-2Y(ST)Y	Telephone outdoor cable
Application																												
Additional control/time recording systems (ZK/ZE)				○		○			○						●	●									●	●	●		●	○
Operating data acquisition (BDE)				○		○			○							●									●	●	●		●	○
Clock systems					○	○																			●	●	●		●	○
Forced entry alarm systems (EMA)	○	○		○			○	○	○			○			●							○	○	○	○	●		●	○
Fire alarm systems (BMA)															○							○	○			○	●	○	○
Telephone extension systems															○							○	○			●		●	●
Interphone/Duplex systems	○	○		○	○	○	○	○	○			○	○		○							●	●	○	○	●		●	●
Electroacoustic systems (ELA/PA)															○							●	●	○		●		●	●
Sound studio cable/microphone cable	○	○		○	○	○	○	○	○		○	○	○	○	○							●	●						
Printer/Plotter				○		○			○				●		○		●	○	●	○	○	●	●						
Direct current stepping motors				●		●			●												●	●	●		○				
Encoder				●		●			●					○							●	●	●		○				
Industrial sensors, U < 50 Veff	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●		●	●	●	●	●	●	●	○	○				
Industrial actuators, U < 50 Veff	●	●	●	●	●	●	●	●	●	●	●	●		●	●		●	●	●	●	●	●	●		○				
Measurement and control system, analog (MSR)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	○	○			○	○
MSR, digital	○	○	○	○	○	○	○	○	○	○	○			○	○		●	●	●	●	●	●	●		○			○	○
In electronic instruments	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○		●	●	●	●	●	●	●						
For cutting/clipping technology (0.34 mm²/AWG 22)	●	●			●	●	●	●		●	●					●	●	●				●	○	●	●	●	●	●	●
Temperature range																													
+80 °C	□	□								□	□		□			□	□	□	□	□	□	□						□	□	
+70 °C	■	■	□	□	■	■	□	□	□	■	■	□		□	■		■	■	■	■	■	□	□	□	□	□				□
+60 °C																												□		
-5 °C	■	■			■	■				■	■				■		■	■								□				□
-20 °C																													□	
-30 °C	□	□	□	□	□	□	□	□	□	□	□	□	□	□		□	□	□					□	□	□	□				
-40 °C																			■	■	■									
Laying																														
For static laying outdoors															○								○							●
For direct laying underground																												●		○
For static installation (indoors)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	○	●	●	●	●		●	●	●	●		●	
For flexible laying (indoors) occasionally	●	●	○	○	●	○	●	●	○	●	●	○	○	○	●		●	●	○	○	○	●	●		○					
For continuous flexible laying (indoors/outdoors)																			●	●	●		●							
Make-up																														
Halogen free							●	●	●										●	●	●									
Flame retardant, self extinguishing	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	○	○
For electr. symmetrical signal transmission (TP), twisted pair			●	●		●							●	●							●	●	●	●	●	○				
For high end coupling of the pairs, screened														●									●							
For electrical screening effect, total screening		●		●	●	●		●	●	●	●	●	●	●	●	●		●		●	●	●	●	●	●	○	●	●	●	
For low attenuation transmission, low capacitance																			●	●	●	●	●					●		
With individually screened cores												●																		
With combined core pairs/individual conductors																														
With colour code DIN 47100	●	●	●	●	●	●	●	●	●			●	●	●	●		●	●	●	●	●	●	●							
With UNITRONIC® colour code										●	●																			
With industrial electronics colour code VDE 0815																									●	●				
With star-quad colour code “BD” to VDE 0815/0816																										○	○		●	●
With pair colour code “LG” to VDE 0815																												○	○	
With special colour code																●														
With numbered cores																														
With PVC/special PVC outer sheath	●	●	●	●						●	●	●	●	●		●	●	●					●	●	●	●	●	●	●	
With PUR sheath, wear resistant, cutting resistant					●	●									●				●	●	●									
With PE outer sheath (not flame-retardant)																														●

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