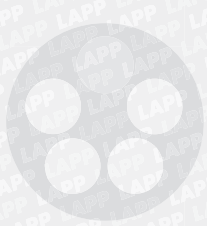


Usage criteria	Cable designation																												
	UNITRONIC® 100, 100 CY	UNITRONIC® LIY, LYCY	UNITRONIC® LIY (TP)	UNITRONIC® LIY (TP)	UNITRONIC® 300, 300 S	UNITRONIC® 300 STP	UNITRONIC® LIY-CY	UNITRONIC® LIYCY (TP)	UNITRONIC® CY PIDY (TP)	UNITRONIC® ST	UNITRONIC® LIY 11Y	UNITRONIC® PUR CP	UNITRONIC® PUR CP (TP)	UNITRONIC® LI2YCY (TP)-LI2YCYv (TP)	UNITRONIC® LI2YCY PIMF	UNITRONIC® ROBUST, ROBUST C	UNITRONIC® ROBUST C (TP)	UNITRONIC® LIH, LIHCH	UNITRONIC® LIHCH (TP)	UNITRONIC® FD, FD CY	UNITRONIC® FD P plus	UNITRONIC® FD CP plus*	UNITRONIC® FD CP (TP) plus*	JE-(ST)Y...BD	JE-LIY...BD	Indoor telephone cable J-Y(ST)Y	Fire alarm cable J-Y(ST)Y red	J-2Y(ST)Y...ST III BD	Outdoor telephone cable

Use																													
Food and beverage industry**																													
Access control/time recording system				✓		✓				✓	✓		✓			✓	✓			✓				✓	✓	✓	✓	✓	✓
Medical technology, laundries, car washing equipment, chemical industry, composting plants, sewage works																													
Production data acquisition systems		✓		✓		✓				✓			✓																
Clock systems		✓		✓		✓							✓																
Versions with UL and <16AWG/<1.5 mm²***		✓		✓		✓							✓																
Intrusion detection systems		✓		✓		✓							✓																
Fire alarm systems																													
Class I, Div. 2 (PLTC, 18&16 AWG)																													
Telephone private branch exchanges																													
Intercom systems		✓		✓		✓							✓																
Electro-acoustic systems																													
Recording studio cables/microphone cables	✓	✓		✓		✓							✓																
Printers/plotters																													
DC stepper motors																													
Encoders (position or angle)																													
Industrial sensors, U < 50 V _{eff}	✓	✓		✓		✓							✓																
Industrial actuators, U < 50 V _{eff}	✓	✓		✓		✓							✓																
Measurement and control purposes, analogue	✓	✓		✓		✓							✓																
MSR, digital	✓	✓		✓		✓							✓																
In electronic devices	✓	✓		✓		✓							✓																
For cutting/clamping technology (0.34 mm²/AWG 22)	✓	✓		✓		✓							✓																

Temperature range																												
+105 °C																												
+90 °C																												
+80 °C (UL) for UL AWM versions		□		□																								
+80 °C	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
+75 °C (UL/CSA CMX - stationary)																												
+70 °C	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
+50 °C																												
-5 °C	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-25 °C																												
-30 °C	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
-40 °C																												
-50 °C	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

Installation																												
Fixed installation indoors	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flexing applications (indoors), occasional	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Outdoors																												
Permanent flexing (indoors/outdoors)																												
As tray cable in North-America																												

Design																												
Halogen-free																												
Flame-retardant, self-extinguishing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Symmetrical transmission, twisted pair (TP)																												
High pair decoupling, pair screening																												
EI. screening effect, overall screening	✓	✓		✓		✓																						
Low-attenuation transmission, low-capacitance																												
Individually screened cores																												
Colour code DIN 47100		✓	✓	✓		✓																						
UNITRONIC® colour code	✓																											
Industrial electronics colour code per VDE 0815																												
Star quad colour code "BD" per VDE 0815/0816																												
Pair colour code "LG" per VDE 0815																												
Special colour code																												
PVC/special PVC outer sheath	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PUR sheath, abrasion-resistant, cut-resistant																												
PE outer sheath (not flame-retardant)																												
Special TPE sheath, chem. resistant																												

Halogen-free accessories	Cable protection hoses	Cable entries	Marking	Accessories
	SILVYN® RILL PA6	SKINTOP® ST-HF-M	FLEXIMARK® single core marking	Embossed metal plates, insulated conductor end sleeves
	SILVYN® RILL PA12	SKINTOP® GMP-HF-M	Flexipart, marking sleeves, Flexiprint	Insulated cable lugs, TBTA insulating tape
	SILVYN® FPAS	SKINTOP® BLK-GL-M	FLEXIMARK® cable labelling	Shrink hoses CMP/PKG/HSB/PLG
	SILVYN® HCC	SKINTOP® GMP-GL-M	MINI system, shrink tube labelling	TEC end caps
	SILVYN® LCCH-2	SKINDICHT® KW-M	FLEXIMARK® component labelling	TEB branch joints
	SILVYN® AS	SKINDICHT® KU-M	LB LA labels	KW plastic coil
	SILVYN® EDU-AS	SKINDICHT® EKU-M	DYMO® label strips	Cable ties Basic Tie/TY-RAP®/TY-FAST®
	SILVYN® TC			

✓ Main application/design
 ✓ Possible application
 ● Flexible use
 □ Fixed and flexible use
 ▲ Fixed installation

*NFA 79, 2015 Edition, 12.9.2, Exemption 3 not applicable before May 2016
 **especially for production and processing equipment of milk and meat products
 ***for internal wiring in industrial machinery in the USA