LUTZE SILFLEX[®] N Control Cable PVC For Stationary Applications

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LUTZE SILFLEX® CONTROL PVC	THE P
Identification	
Туре	SI N TRAY-ER 3×AWG12 GR
Part No.	<u>A3081203</u>
Product version	
Datasheet version	00
Use/Application/Properties	
Application	 Machine tools, machine and plant construction, VAC technology as well as other uses. Compliant with NFPA 79 requirements TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments WTTC – wind turbine tray cable rating for use in wind power generation PLTC-ER Power Limited Tray Cable – Exposed Run ITC-ER Instrumentation Tray Cable – Exposed Run Dry, damp or wet locations
Properties	 Crush impact resistant Gas/vapor-tight sheath per UL 1277 Non-wicking fillers Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures Sunlight resistant Flame retardant "direct burial" for installation in the ground Talc free and silicone free
Construction	

Description	SILFLEX [®] CONTROL CABLE PVC
Number of conductors/cross-section	3×AWG12
Number of conductors	3
Cross-section, metric	4 mm ²
Cross-section AWG	AWG 12

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Technical data sheet Flexible Control and Tray CableTRAY-ER PVC · Unshielded

Jacket colorgrey similar to RAL 7001Outer Ø9.8 mmOuter Ø9.8 kmWeight18.1 kg/100 mWeight12.2 Lbs/MtCu-Index9.36 kg/100 mCu-Index63 Lbs/MftConstruction Element 1Element constructionAWG 12 (65/30)Conductor constructionAWG 12 (65/30)Conductor constructionAWG 20 (65/30)Conductor categoryFine wire Class KConductor insulationPVC/Nylon THHN - THWNOverall constructionOil resistant Sillicone freeJacket characteristicsOil resistant Sillicone freeTechnical data600 V 90 C UL TC-ER-JP 1000 V WITC 90C 600 V UL MTW 1000 V VITC 90C 600 V UL TC 90C <th>Jacket material</th> <th>PVC</th>	Jacket material	PVC
Outer Ø0.382 inchWeight18.1 kg/100 mWeight12.2 Lbs/MtCu-Index9.36 kg/100 mCu-Index63 Lbs/MtConstruction Element 1Element constructionAWG 12 (65/30)Conductor constructionAWG 12 (65/30)Conductor constructionAWG 12 (65/30)Conductor categoryFine wire Class KConductor insulationPVC/Nylon THHN - THWNOverall constructionOil resistant Silicone freeTechnical data600 V 90C UL TC-ER-JP 	Jacket color	grey similar to RAL 7001
Weight18.1 kg/100 mWeight122 Lbs/MftCu-Index9.36 kg/100 mCu-Index63 Lbs/MftConstruction Element 1Element constructionAWG 12 (65/30)Conductor constructionAWG 12 (65/30)Conductor categoryFile wice Class KConductor rarkingblack - with white number print - Ground conductor: green/yellowConductor insulationPVC/Nylon THHN - THWNOverall construction0il resistant Silicone freeTechnical data600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWMTemperature range fixed-40 °C +105 °C AwmMinimum bending radius fixed4xDTechnical Data Element 1Element constructionElement constructionAWG12/03CCertifications/StandardsUL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Outer Ø	9.8 mm
Weight 122 Lbs/Mft Cu-Index 9.36 kg/100 m Cu-Index 63 Lbs/Mft Construction Element 1 Element construction Element construction AWG 12/03C Conductor construction AWG 12 (65/30) Conductor construction AWG conductor Cu-lines Class K Conductor category Fine wire Class K Conductor insulation PVC/Nyion PVC/Nyion Technical data Silicone free Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL TWW 1000 V ULTW 1000 V WTTC 90C 600 V 00C UL TC-ER-JP 1000 V ULTW 1000 V WTTC 90C 600 V 00C UL TC-ER-JP 1000 V ULTW 1000 V WTTC 90C 600 V 01 GCA AWM 4xD Technical data 4vD Technical Data Element 1 Element construction Element construction AWG12/03C Certifications/Standards UL Type MTW or DP-1 Certifications UL Type MTW or DP-1 Keets NEC 336, 392, 725, 727 Class I and II, Div, 2 and Class I Zoone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 UL 1277 TC-ER-JP	Outer Ø	0.382 inch
Cu-Index 9.36 kg/100 m Cu-Index 63 Lbs/Mft Construction Element 1 Element construction AWG 12 (65/30) Conductor construction AWG 12 (65/30) Conductor Cu-wire bare Conductor category Fine wire Class K Conductor insulation PVC/Nylon THHN – THWN Overall construction PVC/Nylon THHN – THWN Overall construction Oil resistant Silicone free Jacket characteristics Oil resistant Silicone free Technical data 600 V 90C UL TC-ER-JP 1000 V WTC 80C 600 V UL MTW 1000 V VTC 80C 600 V UL MTW 1000 V UTC 80C 600 V UL MTW 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element 0 Element construction AWG12/03C Certifications/Standards UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class 1 and II, Div. 2 and Class 1 Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 WTC PUTC-ER-JP WTTC VUC PUTC-ER	Weight	18.1 kg/100 m
Cu-Index 63 Lbs/Mft Construction Element 1 Element construction AWG 12 (65/30) Conductor construction AWG 22 (65/30) Conductor construction AWG conductor CU-wire bare Conductor category Fine wire Class K Conductor marking black + with white number print • Ground conductor: green/yellow Conductor insulation PVC/Nylon THIN – THWN Overall construction PVC/Nylon THIN – THWN Jacket characteristics Oil resistant Silicone free Technical data 600 V 90C UL TC-ER-JP 1000 V USC AWM Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V USC AWM Temperature range fixed -40 °C + 105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction Certifications/Standards UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div 2 and Class I zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC	Weight	122 Lbs/Mft
Construction Element 1 Element construction AWG12/03C Conductor construction AWG conductor Conductor Closs K Conductor category Fine wire Class K Conductor insulation PVC/Nylon THHN - THWN Overall construction PVC/Nylon Jacket characteristics Oil resistant Silicone free Silicone free Technical data 600 V 90C UL TC-ER-JP Notov VIDSC AWM 1000 V WTC 90C Minimum bending radius fixed 40 °C +105 °C Minimum bending radius fixed 4×D Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div 2 and Class I zono 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTC WTC PUTC-ER	Cu-Index	9.36 kg/100 m
Element construction AWG12/03C Conductor construction AWG 12 (65/30) Conductor Class K Conductor category Fine wire Class K Conductor marking Dlack • with white number print • Ground conductor: green/yellow Conductor insulation PVC/Nylon Technical data Oil resistant Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V WTTC 90C 600 V UL MTW 1000 V WTTC 90C 1000 V WTTC 90C 600 V WTTC 90C 600 V C LL TC-ER-JP 1000 V WTTC 90C 1000 V WTTC 90C 600 V WTTC 90C 1000 V UNTW 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction Element construction AWG12/03C Certifications UL Type MTW or DP-1 Meets NEC 338, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) 127 UL 1277 TC-ER-JP WTTC PLTC-ER	Cu-Index	63 Lbs/Mft
Conductor construction AWG 12 (65/30) Conductor AWG conductor CU-wire bare Conductor category Fine wire Class K Conductor marking black + with white number print + Ground conductor: green/yellow Conductor insulation PVC/Nylon THHN - THWN Overall construction Oil resistant Silicone free Jacket characteristics Oil resistant Silicone free Technical data 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction Certifications/Standards UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and IL Div 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and ClC FT4 UL 1277 TC-ER-JP WTTC	Construction Element 1	
Conductor AWG conductor CU-wire bare CU-wire bare Conductor category Fine wire Class K Conductor marking Didack - with white number print - Ground conductor: green/yellow Conductor insulation PVC/Nylon THHN – THWN Overall construction Jacket characteristics Oil resistant Silicone free Technical data Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction Element construction AWG12/03C Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and IL, Div. 2 and Class I Core 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP UL 1277 TC-ER-JP	Element construction	AWG12/03C
CU-wire bare Conductor category Fine wire Class K Conductor marking black • with white number print • Ground conductor: green/yellow Conductor insulation PVC/Nylon THHN – THWN Overall construction Jacket characteristics Oil resistant Silicone free Technical data Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction AWG12/03C Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and IL, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PUTC-ER PUTC-ER	Conductor construction	AWG 12 (65/30)
Class K Conductor marking black • with white number print • Ground conductor: green/yellow PVC/Nylon PVC/Nylon THHN – THWN Overall construction Jacket characteristics Oil resistant Silicone free Itechnical data Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW Temperature range fixed 4/0 °C +105 °C Minimum bending radius fixed 4/D Technical Data Element 1 Element construction Element construction AWG12/03C Certifications/Standards UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Conductor	
Conductor insulation PVC/Nylon THHN – THWN Overall construction Jacket characteristics Oil resistant Silicone free Technical data Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction AWG12/03C Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Conductor category	
THHN – THWN Overall construction Jacket characteristics Oil resistant Silicone free Technical data Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWM Temperature range fixed -40 °C + 105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction AWG12/03C Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Conductor marking	black • with white number print • Ground conductor: green/yellow
Jacket characteristics Oil resistant Silicone free Technical data Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction AWG12/03C Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Conductor insulation	
Silicone free Technical data Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction AWG12/03C Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Overall construction	
Rated voltage U _N 600 V 90C UL TC-ER-JP 1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWM 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction AWG12/03C Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Jacket characteristics	
1000 V WTTC 90C 600 V UL MTW 1000 V 105C AWM Temperature range fixed -40 °C +105 °C Minimum bending radius fixed 4×D Technical Data Element 1 Element construction AWG12/03C Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and ClC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Technical data	
Temperature range fixed Minimum bending radius fixed-40 °C +105 °C 4×DTechnical Data Element 1Element constructionAWG12/03CCertifications/StandardsCertificationsUL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Rated voltage U _N	1000 V WTTC 90C 600 V UL MTW
Minimum bending radius fixed 4×D Technical Data Element 1 Element construction AWG12/03C Certifications/Standards Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and ClC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Temperature range fixed	
Element construction AWG12/03C Certifications/Standards UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER		
Certifications/Standards Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Technical Data Element 1	
Certifications UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Element construction	AWG12/03C
Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER	Certifications/Standards	
	Certifications	Meets NEC 336, 392, 725, 727 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277 TC-ER-JP WTTC PLTC-ER
UL style AWM 20886	UL style	AWM 20886



Technical data sheet Flexible Control and Tray CableTRAY-ER PVC · Unshielded

Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II
General	
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/ 35/EU

