

Technical data sheet

TPE feedback cables · shielded

LUTZE SILFLEX® (C) TPE Feedback Flexible Feedback Cable for stationary application



Identification

Type SI (C)TPE SE(5×2×AWG22) GN
Part No. [A1410001](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Cable design for harsh industrial environments and operating conditions with high noise levels• Compliant with NFPA 79 requirements• Feedback cables for Allen-Bradley drives• Dry, damp or wet conditions |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Flexible for easy installation• Specially formulated TPE jacket for superior oil resistance• Largely resistant to mineral and vegetable-based cutting oils• Non-wicking fillers• Extended temperature range• Premium durability• Sunlight resistant• Crush impact resistant• Gas/vapor-tight sheath per UL 1277 and 13• Talc free and silicone free |

Construction

Description	SILFLEX® (C) TPE FEEDBACK
Number of conductors/cross-section	(5×2×AWG22)
Number of conductors	10
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22

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SYSTEMATIC TECHNOLOGY

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Jacket material	TPE
Jacket color	green similar to RAL 6018
Outer Ø	10 mm
Outer Ø	0.395 inch
Weight	102 Lbs/Mft
Cu-Index	40 Lbs/Mft

Construction Element 1

Element construction	5×2×AWG22
Conductor	AWG conductor CU-wire tin-plated
Conductor category	Fine wire
Conductor marking	black • black/white • red • red/white • green • green/white • yellow • yellow/ white • orange • orange/white
Conductor insulation	Special PVC

Overall construction

Overall wrapping	Non-woven material
Drain wire	CU-wire tin-plated
Overall shield	Foil shield Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Mineral oil-resistant Bio-oil-resistant Silicone free

Technical data

Rated voltage U_N	300 V PLTC 600 V UL AWM 90 °C
Test voltage type	AC 1500 V
Temperature range moving	-5 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	5×2×AWG22
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Certifications/Standards

Certifications	PLTC-ER NEC 725 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 UL 13
UL style	AWM 20626

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Conformity	CE RoHS REACH TSCA
Burning behavior according to	UL Vertical-Tray UL VW-1
Oil resistance	4 days in oil at 100 °C 60 days in oil at 75 °C
Oil resistant according to	Oil Res I Oil Res II

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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