

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



Identification

Type	SI (C)TPE SE(1×2×AWG16+1×2×AWG22+6×2×AWG26) GN
Part No.	A1410002

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	• 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	• 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	(1×2×AWG16+1×2×AWG22+6×2×AWG26)
Number of conductors	16
Cross-section, metric	1.5 mm²
Cross-section AWG	AWG 16

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0
www.lutze.com • sales.gb@lutze.co.uk

Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt
Tel. +49 (0)7151 6053-0
www.luetze.de • info@luetze.de

Technical data sheet

TPE feedback cables · shielded

Jacket material	TPE
Jacket color	green similar to RAL 6018
Outer Ø	11.8 mm
Outer Ø	0.465 inch
Weight	143 Lbs/Mft
Cu-Index	54 Lbs/Mft

Construction Element 1

Element construction	1×2×AWG16
Conductor	AWG conductor CU-wire tin-plated
Conductor category	Fine wire
Conductor marking	grey • grey/white
Conductor insulation	Special PVC

Construction Element 2

Element construction	1×2×AWG22
Conductor	AWG conductor CU-wire tin-plated
Conductor category	Fine wire
Conductor marking	orange • orange/white
Conductor insulation	Special PVC

Construction Element 3

Element construction	6×2×AWG26
Conductor	AWG conductor CU-wire tin-plated
Conductor category	Fine wire
Conductor marking	black • black/white • red • red/white • green • green/white • blue • blue/white • brown • brown/white • yellow • yellow/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 sheet

TPE feedback cables · shielded

Technical data

Rated voltage U_0/U	
Rated voltage U_N	300 V UL CM 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	1×2×AWG16
----------------------	-----------

Technical Data Element 2

Element construction	1×2×AWG22
----------------------	-----------

Technical Data Element 3

Element construction	6×2×AWG26
----------------------	-----------

Certifications/Standards

Certifications	UL Type CM Meets NEC 392, 800
UL style	AWM 20626
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
------	--