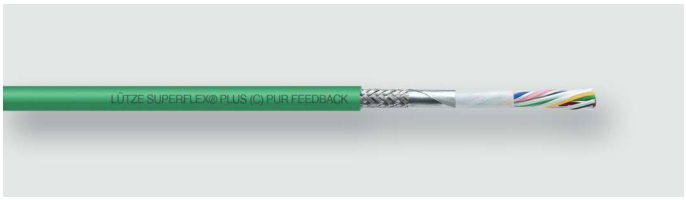
Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Siemens Drive Cliq and other systems
For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (2×2×AWG24+1×2×AWG22)
Part No.	104002

Product version

Datasheet version	00

Use/Application/Properties

Application	• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor • Through optimized cable construction optimally suited for continuous flexing applications in C-tracks • Very good resitance against aggressive coolants and lubricants • Especially for industrial environments in mechanical and system engineering
Properties	• High protection against electromagnetic interferences (EMI) • Braided shield optimised for continuous flexing use • Very good alternating bending strength • Low adhesion, abrasion-resistant, nick-resistant, tear-resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Weathering, ozone and UV resistant (normal lighting conditions) • Industrial and salt water resistant • Excellent coolant and lubricant resistance • Largely resistant to oils, greases, alcohol-free benzines and kerosene • Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×2×AWG24+1×2×AWG22)
Number of conductors	6
Cross-section, metric	0.34 mm²
Cross-section AWG	AWG 22

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

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	6.95 mm
Outer Ø	0.274 inch
Weight	6.5 kg/100 m
Weight	65 Lbs/Mft
Cu-Index	3.2 kg/100 m
Cu-Index	21 Lbs/Mft

Construction Element 1

Element construction	2×2×AWG24
Conductor construction	AWG 24
Conductor	CU-wire bare
Conductor marking	According to system manufacturer
Conductor insulation	PE blend
Stranding	Conductors stranded in pairs Conductors twisted without mechanical stress Layer pitch optimised

Construction Element 2

Element construction	1×2×AWG22
Conductor construction	AWG 22
Conductor	CU-wire tin-plated
Conductor marking	According to system manufacturer
Conductor insulation	PE blend
Stranding	Conductors stranded in pairs Conductors twisted without mechanical stress Layer pitch optimised

Overall construction

Overall stranding	Stranded pairs
Overall wrapping	Non-woven material
Overall shield	Foil shield Braid shield Tinned copper wires Optical cover approx. 85 % Metallised fleece Optical cover approx. 100 %
Jacket characteristics	Halogen free Flame-retardant UV resistant (normal lighting conditions) Hydrolysis-resistant Oil resistant

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V

Temperature range moving	-20 °C … +60 °C
Temperature range fixed	-40 °C … +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×2×AWG24
Insulation resistance at 20 °C	≥2000 MΩ×km
Conductor resistance	≤97.5 Ω/km
Operating capacitance wire-wire	approx.50 pF/m

Technical Data Element 2

Element construction	1×2×AWG22
Conductor resistance	≤56.4 Ω/km

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20233
Conformity	CE RoHS
Burning behavior according to	IEC 60332-1-1 to 1-3 UL Cable Flame Test (UL 1581) UL FT1
Oil resistant according to	UL 758
Halogen free according to	EN 60754-1 VDE 0482-754-1
UV-resistant according to	UL 1581

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS and DRIVE-CLiQ are registered trademarks of SIEMENS AG