Technical data sheet

Flexible Premium TPE Control and Tray Cable for Stationary Applications · Shielded

LUTZE SILFLEX® (C) Tray-ER TPE

Identification

Type	SI N(C)TPE TRAY-ER (3×AWG18) SW
Part No.	A3311805

Product version

Datasheet version	00

Use/Application/Properties

Application

- Multi-wire control cables with TC-ER „Exposed Run“ approval
- Metal cutting equipment, machine tools, machine and plant construction, HVAC technology, assembly and production lines, and other industrial applications
- Compliant with NFPA 79 requirements
- TC-ER for use with cable trays without conduit, which can reduce material and labor costs
- WTTC – wind turbine tray cable rating for use in wind power generation
- Dry, damp or wet locations

Properties

- Crush impact resistant
- Gas/vapor-tight sheath per UL 1277
- Cutting oil resistant - mineral and bio/vegetable based oil, specially tested with plant based cutting oil.
- Non-wicking fillers
- Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures
- Specially formulated TPE jacket for superior oil resistance
- Sunlight resistant
- Flame-retardant
- Talc free and silicone free

Construction

Description	SILFLEX® (C) TRAY-ER TPE
Number of conductors/cross-section	(5×AWG18)
Number of conductors	5
Cross-section, metric	1 mm²

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Cross-section AWG	AWG 18
Jacket material	TPE
Jacket color	black similar to RAL 9005
Outer Ø	9 mm
Outer Ø	0.354 inch
Weight	99 Lbs/Mft
Cu-Index	42 Lbs/Mft

Construction Element 1

Element construction	AWG18/5C
Conductor construction	AWG 18 (16/30)
Conductor	AWG conductor CU-wire bare
Conductor category	fine wire Class K
Conductor marking	black • with white number print • green/yellow
Conductor insulation	PVC/Nylon

Overall construction

Drain wire	CU-wire tin-plated
Overall shield	Aluminium laminate Foil shield Braid shield tinned copper wires
Jacket characteristics	Oil resistant Silicone-free mineral oil-resistant bio-oil-resistant

Technical data

Rated voltage U_N	600 V TC-ER 90C 1000 V WTTC 90C 600 V UL MTW 600 V UL AWM 105 °C
Temperature range fixed	-40 °C … +105 °C
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	AWG18/5C

Certifications/Standards

Certifications	UL Type TC-ER cURus cULus UL Type MTW or DP-1 WTTC Meets NEC 336,392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 C(UL) TC and CIC FT4 UL 1277
UL style	AWM 21270
Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II Oil Res I

General

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