

Technical data sheet

Flexible Control and Tray Cable with Blue Conductors for 24V Applications · Unshielded

LÜTZE SILFLEX® Tray-ER Blue PVC



Identification

Type SI N TRAY-ER Blue 12×AWG18 GR
Part No. [A3251812](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Multi-wire control cables with TC-ER „Exposed Run“ approval• Machine tools, machine and plant construction, VAC technology as well as other uses.• Compliant with NFPA 79 requirements• Blue conductors indicating 24 Volt circuits• MTW Machine Tool Wire• TC-ER for use with cable trays without conduit, which can reduce installation costs in industrial environments• Dry, damp or wet conditions |
| Properties | <ul style="list-style-type: none">• Specially formulated gray PVC jacket for oil resistance• Crush impact resistant• Gas/vapor-tight sheath per UL 1277• Non-wicking fillers• Sunlight resistant• Flame-retardant• Direct burial• Talc free and silicone free |

Construction

Description	SILFLEX® TRAY-ER BLUE PVC
Number of conductors/cross-section	12×AWG16
Number of conductors	12
Cross-section, metric	1 mm ²
Cross-section AWG	AWG 18
Jacket material	PVC

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Jacket color	grey similar to RAL 7001
Outer Ø	12.1 mm
Outer Ø	0.477 inch
Weight	143 Lbs/Mft
Cu-Index	72 Lbs/Mft

Construction Element 1

Element construction	AWG18/12C
Conductor construction	AWG 18 (19/30)
Conductor	AWG conductor CU-wire bare
Conductor category	fine wire Class K
Conductor marking	blue • with white number print • green/yellow • with number print 2 • white/ blue
Conductor insulation	PVC/Nylon THHN – THWN

Overall construction

Jacket characteristics	Oil resistant Silicone-free
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Technical data

Rated voltage U_N	600 V TC-ER 90C 600 V UL MTW
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius fixed	4×D

Technical Data Element 1

Element construction	AWG18/12C
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Certifications/Standards

Certifications	TC-ER UL Type MTW or DP-1 Meets NEC 336,392 Class I and II, Div. 2 and Class I Zone 2 per NEC 501, 502, 505 cUL TC CIC FT4 UL 1277
Conformity	RoHS REACH TSCA
Oil resistant according to	Oil Res I

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General

Note

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