

Technical data sheet

PVC actuator-sensor cables · unshielded

LUTZE ELECTRONIC AS PVC

Flexible Electronic Actuator Sensor Cable for Stationary Applications



Identification

Type TR AS PVC 3×AWG18
Part No. [A1021803](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For the cabling of actuator sensor systems like IO-Link• Sensors, actuators, digital IO hubs, and field devices used in process instrumentation and controls• Compliant with NFPA 79 requirements• TC-ER-JP for use with cable trays without conduit, which can reduce installation costs in industrial environments• WTTC – wind turbine tray cable rating for use in wind power generation• PLTC-ER Power Limited Tray Cable – Exposed Run• ITC-ER Instrumentation Tray Cable – Exposed Run• Dry, damp or wet locations |
| Properties | <ul style="list-style-type: none">• Flexible for easy installation• IO-Link max cable length: 20 m• Crush impact resistant• Gas/vapor-tight sheath per UL 1277 and 13• Specially formulated jacket for oil resistance• Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures• Non-wicking fillers• Sunlight resistant• Flame retardant• Direct burial (AWG 18 and larger)• Talc free and silicone free |

Construction

Description	Flexible Electronic actuator sensor cable for stationary applications
Number of conductors/cross-section	3
Cross-section AWG	AWG 18
Jacket material	PVC
Jacket color	yellow similar to Munsell 5y8.5/12
Outer Ø	7.5 mm

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Outer Ø	0.295 inch
Weight	51 Lbs/Mft
Cu Index	18 Lbs/Mft

Construction Element 1

Element construction	AWG18/3C
Conductor construction	AWG 18 (19/30)
Conductor	AWG conductor CU-wire tin-plated
Conductor category	Fine wire Class K
Conductor marking	blue • black • brown
Conductor insulation	PVC/Nylon

Technical data

Rated voltage U_N	300 V 90C PLTC-ER 300 V 90C ITC-ER 600 V MTW 1000 V 105C AWM
Temperature range fixed	-40 °C ... +105 °C
Minimum bending radius fixed	4×cable OD

Technical Data Element 1

Element construction	AWG18/3C
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Approvals/Standards

Approvals	UL Type MTW or DP-1 Meets NEC 336, 392, 725, 727 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 13
UL style	AWM 20886
Conformity	CE RoHS REACH TSCA
Oil resistant according to	Oil Res II

General

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