

# Foundation Fieldbus

Eco Style Single Pair IEC61158-2 (LSZH)



## Cable Design

### Wire

Conductor	Stranded tinned copper wire 7/0,40mm (18awg)	Ø 1,20 mm
Insulation	Polyethylene (PE)	Ø 2,20 mm

### Core

Pair	2 wires twisted to a pair (BU-OG)	
Tape	Polyester tape overlapped	
Drain Wire	Stranded tinned copper wire 7/0,30mm	
Screen	Aluminium/polyester tape overlapped, 100% coverage	

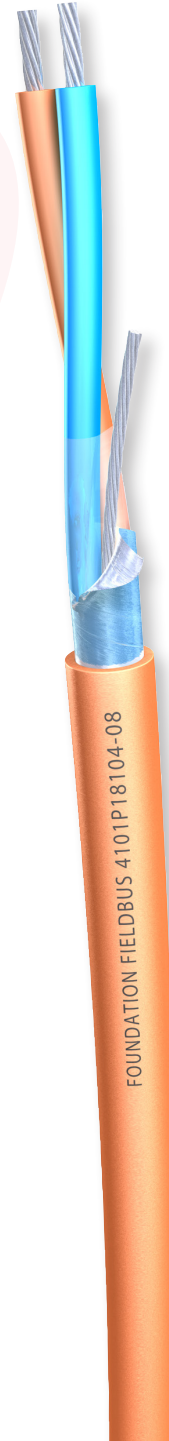
Outer Jacket	LSZH (Low Smoke Zero Halogen)	Ø 6,70 ± 0,20 mm
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## Characteristics

- Flame retardant acc. to IEC 60332-2-1,
- Halogen free acc. to IEC 60754,
- Smoke density acc. to IEC 61034,

## Specification

Part Number	Type
4101P18104-08	Orange Foundation Fieldbus cable Eco Style ISA/SP50 Type A, 2x18AWG7 (LSZH)
4101P18104-02	Blue Foundation Fieldbus cable Eco Style ISA/SP50 Type A for installation in hazardous Ex-areas, 2x18AWG7 (LSZH)



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## Electrical Data @ 20°C

Conductor resistance		nom. 19,33	Ohm/km
Screen resistance		nom. 37,60	Ohm/km
Capacitance (conductor/conductor)		nom. 79,2	pF/m
Capacitance (conductor/screen)		nom. 148,5	pF/m
Impedance		nom. 100	Ohm
Attenuation	0,50 MHz	2,1	dB/100m
Attenuation	1,00 MHz	3,2	dB/100m

## Mechanical & Thermal Characteristics

Insulation Elongation	min. 300	%
Insulation Strength	min. 1000	N/cm <sup>2</sup>
Outer Jacket Elongation	min. 300	%
Outer Jacket Strength	min. 650	N/cm <sup>2</sup>
Temperature (moving installation)	-15 to +70	°C
Temperature (fixed installation)	-40 to +70	°C

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