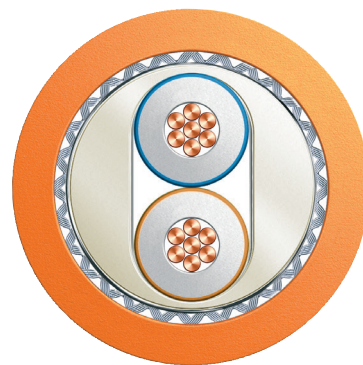


Foundation Fieldbus

ES Single Pair Type A IEC61158-2 (LSZH)



Cable Design

Wire

Conductor	Stranded bare copper wire 7/0,40mm (18awg)	Ø 1,20 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 2,55 mm

Core

Pair	2 wires twisted to a pair (BU-OG)	
Tape	Plastic tape overlapped	
Easystrip Jacket	Soft Thermoplastic copolymer	Ø 5,50 mm
Screen	Alulamine foil overlapped	
Braid	Tinned copper wire braid, 90% coverage	Ø 6,10 mm

Outer Jacket	LSZH (Low Smoke Zero Halogen)	Ø 8,0 ± 0,20 mm
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Characteristics

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

Specification

Part Number	Type
2401P1854	Orange Foundation Fieldbus ES, cable for permanent installation (easy to strip), 2x18AWG7 (LSZH)
2401P1854-02	Blue Foundation Fieldbus ES, cable for permanent installation in hazardous Ex-areas (easy to strip), 2x18AWG7 (LSZH)



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Electrical Data @ 20°C

Conductor resistance		≤	22	Ohm/km
Screen resistance		≤	9	Ohm/km
Insulation resistance		≥	10	MOhm*km
Capacitance (1 kHz)		≈	54	nF/km
Characteristic Impedance	31,25 kHz		100±20	Ohm
Attenuation	39 kHz	≤	3	dB/km
Capacitance unbalance e		≤	2	nF/km
Surface transfer impedance	20 MHz	≤	5	mOhm/m
Rel. Velocity of Propagation		≈	72	%
Operating voltage (peak)		≤	100	V
UL rating			300	V
Test Voltage (wire/wire rms 50Hz 1min.)			1000	V
Test Voltage (wire/screen rms 50Hz 1min.)			800	V

Mechanical & Thermal Characteristics

Permissible Temperature range			-25 ~ +80	°C
Min. Bending radius allowed	repeated		10	x Ø
Min. Bending radius allowed	single		5	x Ø
Weight (approx.)			96	kg/km

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