

# Foundation Fieldbus 18awg 2pair ICAT DataGuard® (SWA) LSZH FireFighter®

## Cable Design *2x2x18awg/7*

<b>Wire</b>	Stranded tinned copper wire conductor (18awg) Ø 1,20mm
Insulation	Insulation of Polypropylene (PP) Ø 2,85 mm
<b>Shielded pair</b>	2 wires twisted to a pair
Drain Wire	Stranded tinned copper (18AWG)
Screen	Alulamine foil overlapped
<b>Core</b>	2 shielded pairs 0G/1-BU/1 and 0G/2-BU/2
Drain Wire	Stranded tinned copper (18AWG)
Screen	Alulamine foil overlapped
<b>Inner Jacket</b>	LSZH FireFighter®
Colour	Orange
Diameter	Ø 9.8 ±0.4 mm
<b>Armour</b>	DataGuard® Steel Wire Armour (DSWA)
<b>Outer Jacket</b>	LSZH FireFighter®
Colour	Orange, Black or Blue
Diameter	Ø 13.60 ±0.4 mm



## Specification

Part Number	Colour
144602P1834-01	Black
144602P1834-02	Blue
144602P1834-08	Orange

## Electrical Data @ 20° C

Conductor resistance	≤	22	Ohm/km
Insulation resistance	≥	5	GOhm*km
Operating voltage (peak)	≤	300	V
Attenuation (0.039 MHz)	nom.	3.4	dB/100m
Capacitance (1 kHz wire/wire)	nom.	65	nF/km
Capacitance (1 kHz wire/screen)	nom.	125	nF/km
Characteristic impedance at 31.25 kHz		100±20	Ohm
Test voltage (wire/wire rms 50Hz 1min)		1500	V
Test voltage (wire/screen rms 50Hz 1min)		1000	V

## Thermal & Mechanical Characteristics

Permissible temperature range	Transport, installation and operating	-40 °C (-40 °F) up to 90 °C (194 °F)
Weight about		421 kg/km

## Standards

Flame Retardant	IEC 60332-1 flame resistance for single cables
Flame Retardant	IEC 60332-3 flame resistance for bunched cables
Halogen Free	IEC 60754 series
Smoke Emission	IEC 61034 series