

# HELUKAT® SPE Type B 1000BASE-T1 HYBRID SF/UTP PUR FLEX



TECHNICAL DATA	
<b>Industrial Ethernet cable acc. to UL-Std. 758 (AWM) Style 20233</b>	
<b>Data conductor AWG 26:</b>	
<b>Conductor resistance at 20°C</b>	max. 145.0 Ohm/km
<b>Loop resistance at 20°C</b>	max. 290.0 Ohm/km
<b>Mutual capacitance core/core</b>	at 800 Hz, approx. 43 pF/m
<b>Power conductor at AWG 16:</b>	
<b>Conductor resistance at 20°C</b>	max. 15,6 Ohm/km
<b>Temperature range</b>	flexible -20°C to +90°C fixed -40°C to +90°C
<b>Peak operating voltage</b>	125 V (not for high power current installation purposes)
<b>Test voltage core/core</b>	1000 V
<b>Insulation resistance</b>	min. 5.0 GOhm x km
<b>Rel. Velocity of Propagation</b>	approx. 76%
<b>Characteristic impedance</b>	at 1 to 100 MHz, 100 Ohm ± 5 Ohm
<b>Caloric load</b>	approx. 0,50 MJ/m
<b>Minimum bending radius</b>	flexible 8x Leitungs Ø fixed installation 4x Leitungs Ø

## ■ CABLE STRUCTURE

- Data Section:
- Conductor: Copper wire bare AWG 26/7
- Core: Foam PP, approx. 1.15mm Ø
- Pair: white/blue + filler elements
- Shielding: Foil shield + tinned copper braid
- Wrapping: Fleece tape
- Inner sheath: Polyester, silver-grey similar to RAL 7001
- Diameter: 3.7 +/- 0,2 mm
- Power Cores:
- Conductor: Bare copper AWG 16/19

- Core: PP, approx. 1.84 mm Ø
- Colour code: red, red-white, black, black-white
- Hybrid:
- Stranding: Data section + power cores + filler elements (optional)
- Wrapping: Non-woven tape
- Shielding: Tinned copper braid
- Wrapping: Fleece tape
- Outer sheath: PUR, black similar to RAL 9005
- Diameter: 9.0 +/- 0.3 mm

## ■ PROPERTIES

- resistant to: oil, UV radiation, hydrolysis, microbes, coolants, greases
- abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- halogen-free
- flame-retardant

## ■ TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 603321-2 / IEC 60332-1-2

## ■ APPLICATION

HELUKAT SPE B 1000BASE-T1 HYBRID is intended for flexible applications or for permanent installation and is exceptionally oil resistant due to its PUR sheathing. This cable is intended for use with SPE hybrid plugs acc. to IEC 63171 Type II.

## ■ NOTES

- UL Voltage Rating: 300 V

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. Mm	Cop. Factor per km	Weight app. kg / km
11022604	1 x 2 x AWG 26/7 + 4 x AWG 16/19	9	86	138,4