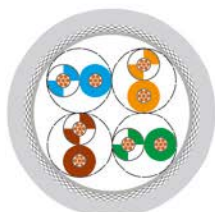


# HELUKAT® 200IND CAT.5e SF/UTP PUR ROBUSTFLEX

flame-retardant



## TECHNICAL DATA

Industrial Ethernet cable / Cat. 5e acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-3, DIN EN 50288-2-2, UL-Std. 758 (AWM) Style 21576

Temperature range	flexible -20°C to +50°C fixed installation -40°C to +80°C
Peak operating voltage	UL (AWM) to +80°C 125 V (not for high power current installation purposes)
Test voltage core/core	1000 V
Conductor resistance at 20°C	max. 140.0 Ohm/km
Loop resistance at 20°C	max. 280.0 Ohm/km
Insulation resistance	min. 5.0 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 47 pF/m
Rel. Velocity of Propagation	approx. 67%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm at 101 to 200 MHz, 100 Ohm ± 20 Ohm
Caloric load	approx. 0.64 MJ/m
Minimum bending radius	flexible 8x Outer-Ø fixed installation 4x Outer-Ø

## CABLE STRUCTURE

- Copper wire bare, AWG sizes
- Core insulation: Polyolefin
- Core identification: colour coded, pairs:
  - No. 1: white-blue / blue
  - No. 2: white-orange / orange
  - No. 3: white-green / green
  - No. 4: white-brown / brown
- Screening element: pairs
- Cores stranded in pairs with optimal lay lengths
- Foil wrapping

- Pairs stranded in layers with optimal lay lengths
- 1. Screen: plastic-coated aluminium foil (St)
- 2. Screen: braided screen of tinned copper wires
- Outer sheath: PUR
- Sheath colour: grey
- Length marking: in metres

## 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

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- certifications and approvals: EAC

## APPLICATION

HELUKAT® 200IND CAT.5e SF/UTP PUR ROBUSTFLEX is used in harsh industrial surroundings and characterized by high reserve capacity and outstanding performance. Mechanically, the halogen-free PU outer sheath makes it ideal for harsh industrial surroundings. This cable is configurable with common RJ45 plugs (industrial and office version), as well as with various Sub-D and M12 plugs.

## NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only
- UL Voltage Rating: 1000 V

## TYPICAL VALUES

Frequency (MHz)	10	16	62.5	100	200
Attenuation (dB/100m)	8.0	11.0	24.0	29.0	43.0
NEXT (dB)	58.0	56.0	45.0	43.0	37.0
ACR (dB/100m)	50.0	45.0	21.0	14.0	-6.0

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
800068	4 x 2 x AWG 26 /7	0.14	0.48	0.95	5.8	24.0	44.0