HELUKAT® 200S CAT.5 4P SF/UTP PUR CHAIN











flame-retardant





TECHNICAL DATA

Industrial Ethernet cable / Cat. 5 acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-3, DIN EN 50288-2-2

flexible -25°C to +70°C Temperature range

fixed installation -35°C to

+80°C

Peak operating voltage 125 V (not for high power

current installation purposes)

Test voltage core/core 700 V

Conductor resistance at 20°C max. 78.0 Ohm/km max. 156.0 Ohm/km Loop resistance at 20°C Insulation resistance min. 2.0 GOhm x km Mutual capacitance core/core at 800 Hz, approx. 51 pF/m

Rel. Velocity of Propagation approx. 67%

Characteristic impedance at 1 to 100 MHz, 100 Ohm \pm

15 Ohm

Caloric load approx. 2.08 MJ/m flexible 12x Outer-Ø Minimum bending radius fixed installation 6x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, AWG sizes
- · Core insulation: PE
- Core identification: colour coded, pairs:

No. 1: white / brown No. 2: green / yellow No. 3: grey / pink No. 4: blue / red

- · Cores stranded in pairs with optimal lay lengths
- · Foil wrapping
- · Pairs stranded in layers with optimal lay lengths
- · Inner sheath: TPE
- 1. Screen: plastic-coated aluminium foil (St)
 - 2. Screen: braided screen of tinned copper wires

- · Outer sheath: PUR
- Sheath colour: green
- Length marking: in metres

PROPERTIES

- · resistant to: oil
- abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- suitable for use in drag chains
- · 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® 200S CAT.5 4P SF/UTP PUR CHAIN is designed for use in cable carriers and the extreme loads caused by moving machine components and provides excellent transmission characteristics under the most difficult and extreme conditions. Thanks to the clever structure, it is also suitable mechanically for use even in cable carriers with a high packing density.

NOTES

· Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference

TYPICAL VALUES

Frequency (MHz)	10	16	62.5	100
Attenuation (dB/100m)	7.0	9.0	20.0	25.0
NEXT (dB)	57.0	54.0	45.0	43.0
ACR (dB/100m)	50.0	45.0	25.0	18.0

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.
81155	4 x 2 x AWG 24 /19	0.24	0.64	1.25	9.5	54.3	110.0

