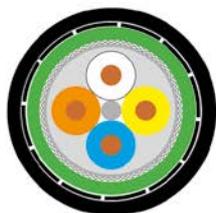


HELUKAT® PROFInet A CAT.5e SF/UTP PE STATIC ARMoured

PROFInet Type A, armoured, for outdoor use



TECHNICAL DATA

Industrial Ethernet cable / Cat. 5e acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-5, PROFInet Guidline

| | |
|-------------------------------------|---|
| Temperature range | fixed installation -40°C to +70°C during installation -20°C to +60°C |
| Peak operating voltage | 125 V (not for high power current installation purposes) |
| Test voltage core/core | 2000 V |
| Conductor resistance at 20°C | max. 57.5 Ohm/km |
| Loop resistance at 20°C | max. 115.0 Ohm/km |
| Insulation resistance | min. 0.5 GOhm x km |
| Mutual capacitance core/core | at 800 Hz, approx. 50 pF/m |
| Rel. Velocity of Propagation | approx. 62% |
| Characteristic impedance | at 1 to 100 MHz, 100 Ohm ± 15 Ohm |
| Caloric load | approx. 2.14 MJ/m |
| Minimum bending radius | during installation 10x Outer-Ø fixed installation 5x Outer-Ø |

■ CABLE STRUCTURE

- Copper conductor bare, conductor diameter: 0.64 mm, AWG sizes
- Core insulation: PE
- Core identification: white, yellow, blue, orange
- Cores twisted into a star quad with optimal lay lengths
- Foil wrapping
- Inner sheath: PVC

- 1. Screen: plastic-coated aluminium foil (St)
- 2. Screen: braided screen of tinned copper wires
- Inner sheath: PVC
- Steel tape, galvanised
- Outer sheath: PE
- Sheath colour: black
- Length marking: in metres

■ PROPERTIES

- resistant to: UV radiation, weathering effects, microbes, coolants, acids, alkalis
- for outdoor use

■ TESTS

- certifications and approvals: EAC

■ APPLICATION

HELUKAT® PROFInet A CAT.5e SF/UTP PE STATIC ARMoured for fixed installation in industrial networks. It guarantees excellent transmission characteristics and may be used even under the harshest conditions. The cables listed here correspond to PROFInet Type A and thanks to their special construction with PVC inner sheath/PE outer sheath ideal for areas with rodent problems.

■ NOTES

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

■ TYPICAL VALUES

| Frequency (MHz) | 10 | 16 | 62.5 | 100 |
|-----------------------|------|------|------|------|
| Attenuation (dB/100m) | 5.2 | 6.9 | 15.0 | 19.5 |
| NEXT (dB) | 70.0 | 65.0 | 55.0 | 50.0 |
| ACR (dB/100m) | 64.8 | 58.1 | 40.0 | 30.5 |

| Part no. | No. cores x AWG-No. | Cross-sec. mm ² , approx. | Core Ø mm, approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. |
|----------|---------------------|--------------------------------------|--------------------|---------------------|-----------------|-----------------------|
| 801650 | 2 x 2 x AWG 22 / 1 | 0.32 | 1.5 | 9.3 | 31.0 | 124.0 |