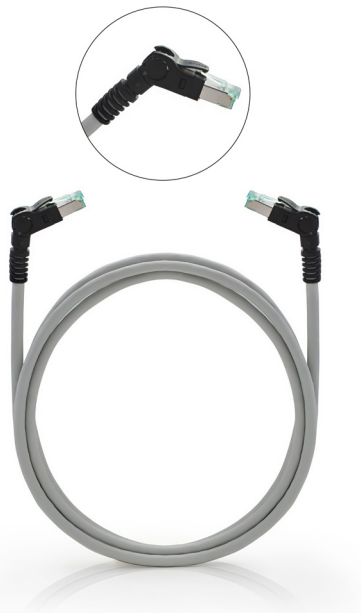
# Patch kábel S/FTP, Category $6_A$ , PUR

| | | | |
|---|---|---|---|
| P/N: **KEL-C6A-P-005SF** | lenght 0.5 m | P/N: **KEL-C6A-P-050SF** | lenght 5 m |
| P/N: **KEL-C6A-P-010SF** | lenght 1 m | P/N: **KEL-C6A-P-070SF** | lenght 7 m |
| P/N: **KEL-C6A-P-015SF** | lenght 1.5 m | P/N: **KEL-C6A-P-100SF** | lenght 10 m |
| P/N: **KEL-C6A-P-020SF** | lenght 2 m | P/N: **KEL-C6A-P-150SF** | lenght 15 m |
| P/N: **KEL-C6A-P-030SF** | lenght 3 m | P/N: **KEL-C6A-P-200SF** | lenght 20 m |

10 Gigabit | Cat.$6_A$ Interoperable | 500 MHz | PUR



## features

- boots adjustable up to 90 degrees in four directions
- extremely flexible cable with PUR insulation
- resistance to water, chemicals (petroleum products, ozone ...)
- high mechanical strength and abrasion resistance
- paired shielded S / FTP cable with stranded cores
- connector RJ45 complies with IEC 60603-7 standard by its dimensions and transmission features
- perfectly shielded against Alien Crosstalk and electromagnetic interference
- enables transmission of all high-speed protocols including 10GBASE-T
- guarantees a bandwidth of 500 MHz

## application

- in external and demanding industrial environment
- in conditions of automation and robotization
- at limited space behind the equipment to be connected
- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
- IEEE 802.5 16 MB; ISDN; FDDI; ATM
- high bandwidth digital applications with low BER

## construction

| | | |
|---|---|---|
| Conductor | AWG 26/7 | |
| Sheath | PUR | |
| Contact pin material | phosphor-bronze alloy coated with 50 µ of gold | |
| Boots material | polycarbonate | |
| Outer cable diameter | 6,1 mm | |
| Colour (standard) | cable | gray RAL7035 |
| | boots | black RAL9005 |

## mechanical properties

| | |
|---|---|
| Insertion / extraction cycles | min. 750 |
| Temperature range | -25 °C to +60 °C |
| Min. bending radius | 25 mm |

## electrical properties (connector)

| | | |
|---|---|---|
| Voltage rating | - | 125 V AC |
| Current rating | - | 1 A |
| Contact resistance | 100 mA (DC or 1000Hz) | 50 mΩ max. |
| Insulation resistance | 100 V DC | 100 MΩ min. |

## electrical properties (cable)

| | | |
|---|---|---|
| Loop resistance | - | ≤ 340 Ω/ km |
| resistance unbalance | - | ≤ 3% |
| insulation resistance | (500V) | ≥ 2000 MΩ x km |
| Capacity | at 800 Hz | nom. 43 nF/ km |
| Capacity unbalance | (pair/ground) | ≤ 1500 pF/ km |
| Charasteristic impedance | at 100 MHz | (100 ± 15) Ω |
| Coupling attenuation | Typ II (≥ 55dB@100MHz) | Alien crosstalk (ANEXT, AFEXT) is proven by design |
| Nominal velocity of propagation (NVP) | - | cca 79% |
| Propagation delay | Nominal | ≤ 427 ns/100 m |
| Delay skew | Nominal | ≤ 12 ns/100 m |
| Test voltage | (DC, 1 min) core/core, core/screen | 1000 V |
| Transfer impedance | at 1 MHz | ≤ 50mΩ/ m |
| | at 10 MHz | ≤ 100 mΩ/ m |
| | at 30 MHz | ≤ 200 mΩ/ m |