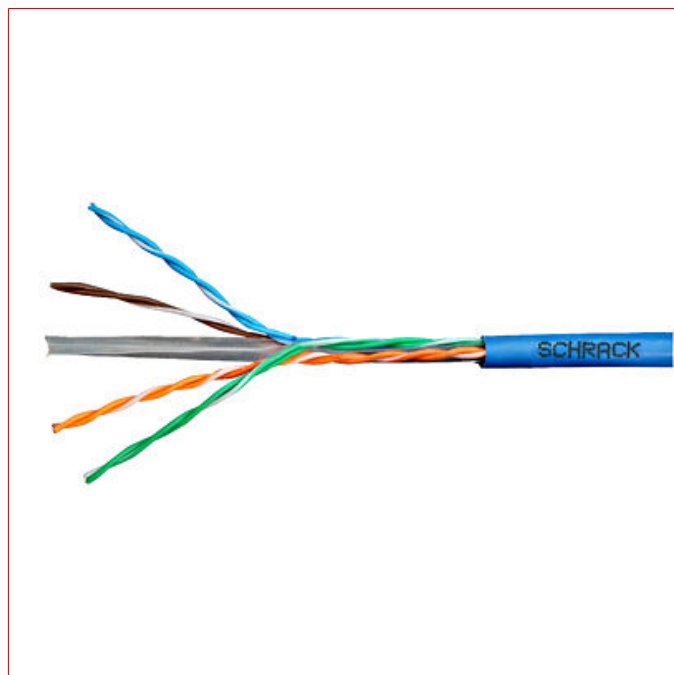


Podatkovni list izdelka: HSKU423P15

# Kabel U/UTP Cat.6, 4x2xAWG23/1, 300MHz, PVC, moder

kolut 500m



## SCHRACK-Info

### UPORABA

- Inštalacijski kabel za uporabo v komunikacijskih inštalacijah
- Primeren za vse aplikacije kategorije 6 in 5e 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

### SPLOŠNI STANDARDI

- Mednarodni standard: ISO/IEC 11801 izdaja 2 (2002) in ISO/IEC 11801 sprememba 1 (2010)
- Evropski standard: EN 50173-1 (2002) in EN 50173-1 sprememba 1 (2009)
- ZDA standard: ANSI/TIA/EIA 568-B.2.1 (2002)

U/UTP

Cat. 6

PVC

E<sub>ca</sub>

## Tehnični podatki

|                 |                                        |
|-----------------|----------------------------------------|
| kategorija      | Cat.6                                  |
| kabelski oklop  | U/UTP                                  |
| vodnik          | masivna bakrena žica, AWG23/1 (0,58mm) |
| sestava vodnika | 4 neoklopljene, sukane parice          |

## Tehnični podatki - Nadaljevanje

|                                                                                  |                                                                                               |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| barvna oznaka paric                                                              | Parica 1 bela/modra<br>Parica 2 bela/oranžna<br>Parica 3 bela/zelena<br>Parica 4 bela / rjava |
| izolacijski material                                                             | polietilen (PE)                                                                               |
| premer izolacijskega materiala (mm)                                              | 0,96                                                                                          |
| oklop                                                                            | neoklopljen                                                                                   |
| kabelski plašč                                                                   | PVC                                                                                           |
| klasifikacija glede na EN50575                                                   | Eca                                                                                           |
| barva plašča                                                                     | modra RAL 5015                                                                                |
| požarna obremenitev (kJ/m)                                                       | 460                                                                                           |
| Cross web                                                                        | Polietilen                                                                                    |
| ognjevarno v skladu z IEC 60332-1                                                | da                                                                                            |
| gostota dima - prepustnost (%)                                                   | ≥80                                                                                           |
| zunanj premer (mm)                                                               | 5,4 ± 0,3                                                                                     |
| nominalna masa (kg/km)                                                           | 34                                                                                            |
| barva                                                                            | modra                                                                                         |
| temperaturno območje - delovanje (°C)                                            | -30 do +60                                                                                    |
| temperaturno območje - montaža (°C)                                              | +0 do +50                                                                                     |
| polmer upogibanja kabla - delovanje (dolgo) (Ø)                                  | 4                                                                                             |
| polmer upogibanja kabla - inštalacija (kratko) (Ø)                               | 8                                                                                             |
| največja natezna moč (N)                                                         | 80                                                                                            |
| nazivna napetost                                                                 | ≤72V DC in ≤50V AC                                                                            |
| DC-odpornost pri 20 °C (Ohm/100m)                                                | ≤9<br>5                                                                                       |
| asimetrija odpornosti: v parih / med pari (%)                                    | ≤2 / ≤4                                                                                       |
| D.C. insulation resistance: conductor – conductor and conductor – screen (MΩ*km) | ≥ 5000                                                                                        |
| Dielectric strength conductor – conductor (2 sec) (kV DC)                        | 2,5                                                                                           |
| delovna zmogljivost (nF/km)                                                      | ≤56                                                                                           |
| Capacitance unbalance pair to ground (pF/km)                                     | ≤1600                                                                                         |
| dušenje na spoju oklopa po IEC 61156-5                                           | tip 3                                                                                         |
| raztezek pri preboju vodnikov (%)                                                | 10                                                                                            |
| Minimum elongation at break of the insulation (%)                                | ≥ 100                                                                                         |
| Minimum elongation at break of the sheath (%)                                    | ≥ 100                                                                                         |
| natezna trdnost plašča (MPa)                                                     | ≤9                                                                                            |
| maks. trajni tok na prevodnik (pri 25 °C) (A)                                    | 1,5                                                                                           |
| SKEW (ns/100m)                                                                   | ≤40                                                                                           |
| NVP (%)                                                                          | 70                                                                                            |
| dolžina/postavitev                                                               | 500m - kolut                                                                                  |
| IEEE Compliance                                                                  | PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4                                              |
| pakiranje                                                                        | kolut 500m                                                                                    |

## REFERENCE STANDARD: IEC 61156-5

| Frequency             | 1     | 4    | 10    | 16    | 31.2  | 62.5  | 100   | 155  | 200   | 250   | 300 | MHz      |
|-----------------------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-----|----------|
| Attenuation           | 2.1   | 3.8  | 6     | 7.6   | 10.7  | 15.5  | 19.9  | 25.3 | 29.1  | 33    | -   | dB/100m  |
| NEXT                  | 75.3  | 66.3 | 60.3  | 57.2  | 52.9  | 48.4  | 45.3  | 42.4 | 40.8  | 39.9  | -   | dB/100m  |
| PS NEXT               | 72.3  | 63.3 | 57.3  | 54.2  | 49.9  | 45.4  | 42.3  | 39.4 | 37.8  | 36.3  | -   | dB/100m  |
| ARC                   | 73.2  | 62.4 | 54.3  | 49.6  | 42.1  | 32.9  | 25.4  | 17.1 | 11.6  | 6.3   | -   | dB/100m  |
| PS ACR                | 70.2  | 59.4 | 51.3  | 46.6  | 39.1  | 29.9  | 22.4  | 14.1 | 8.6   | 3.3   | -   | dB/100m  |
| ACR-F                 | 70    | 58   | 50    | 45.9  | 40.1  | 34.1  | 30    | 26.2 | 24    | 22    | -   | dB/100m  |
| PS ACR-F              | 67    | 55   | 47    | 42.9  | 37.1  | 31.1  | 27    | 23.2 | 21    | 19    | -   | dB/100m  |
| Return loss           | 20    | 23   | 25    | 25    | 23.6  | 21.5  | 20.1  | 18.8 | 18    | 17.3  | -   | dB/100m  |
| TCl level 1           | 40    | 34   | 30    | 28    | 25.1  | 22    | 20    | 18.1 | 17    | 16    | -   | dB/100m  |
| EL TCTL               | 35    | 23   | 15    | 10.9  | 5.1   | -     | -     | -    | -     | -     | -   | dB/100m  |
| Impedance upper limit | 122.2 | 15.2 | 111.9 | 111.9 | 114.1 | 118.3 | 121.9 | 126  | 128.8 | 131.5 | -   | $\Omega$ |
| Impedance lower limit | 81.8  | 86.8 | 89.4  | 89.4  | 87.7  | 84.5  | 82    | 79.3 | 77.6  | 76    | -   | $\Omega$ |
| Propagation delay     | 570   | 552  | 545   | 543   | 539   | 538   | 537   | 537  | 537   | 536   | -   | dB/100m  |

\* Limits below 4 MHz are informative.

## TYPICAL VALUES

| Frequency   | 1    | 4   | 10  | 16 | 31,2 | 62,5 | 100  | 155  | 200  | 250 | 300 | MHz     |
|-------------|------|-----|-----|----|------|------|------|------|------|-----|-----|---------|
| Attenuation | 1,65 | 3,8 | 5,6 | 7  | 10,2 | 14,9 | 19,2 | 24,3 | 27,5 | 31  | 33  | dB/100m |
| NEXT        | 85   | 75  | 70  | 66 | 62   | 58   | 55   | 52   | 50   | 49  | 48  | dB/100m |
| PS NEXT     | 82   | 72  | 67  | 63 | 59   | 55   | 52   | 49   | 47   | 46  | 45  | dB/100m |
| ACR         | 82   | 71  | 64  | 59 | 52   | 43   | 36   | 28   | 22   | 18  | 15  | dB/100m |
| PS ACR      | 79   | 68  | 61  | 56 | 49   | 40   | 33   | 25   | 19   | 15  | 12  | dB/100m |
| ACR-F       | 80   | 72  | 65  | 59 | 53   | 45   | 43   | 41   | 40   | 37  | 32  | dB/100m |
| PS ACR-F    | 77   | 69  | 62  | 56 | 50   | 42   | 40   | 38   | 37   | 34  | 29  | dB/100m |
| RL          | 25   | 28  |     | 30 | 30   | 28   | 27   | 26   | 25   | 25  | 25  | dB/100m |

Typical values are for information only.

## Tabela izdelkov

| Opis                                                                   | NVP (%) | Teža bakra (kg/km) | Šifra      |
|------------------------------------------------------------------------|---------|--------------------|------------|
| Kabel U/UTP Cat.6, 4x2xAWG23/1, 300MHz, PVC, moder<br>kolut 500m       | 70      | 20                 | HSKU423P15 |
| <b>dodatni pribor</b>                                                  |         |                    |            |
| Modul RJ45, TOOLLESS LINE, neoklopljen, Cat.6, (SFA)                   |         |                    | HSEMRJ6UWS |
| Stojalo za kabelski kolut, nosilnost 250kg<br>maks. širina koluta 52cm |         |                    | HTOOL00006 |
| Vezica, kabelska, sprejemalna, črna, 16mm x 4m                         |         |                    | Q7KB0416-S |
| Vezica, kabelska, sprejemalna, modra, 16mm x 4m                        |         |                    | Q7KB0416-B |
| Vezica, kabelska, sprejemalna, rdeča, 16mm x 4m                        |         |                    | Q7KB0416-R |
| Vezica, kabelska, sprejemalna, rumena, 16mm x 4m                       |         |                    | Q7KB0416-Y |
| Vezica, kabelska, sprejemalna, zelena, 16mm x 4m                       |         |                    | Q7KB0416-U |