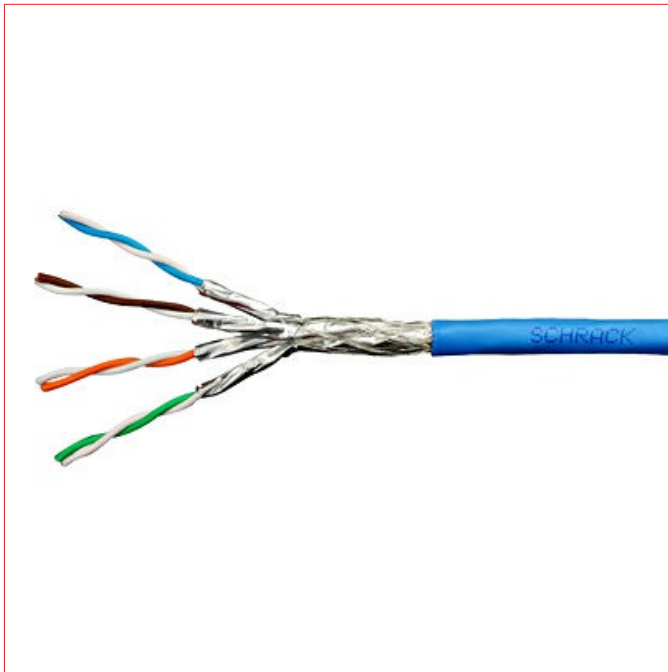


Date tehnice pentru produs: HSKP423HP5

# Cablu S/FTP Cat.7, 4x2xAWG23 / 1, 1.000Mhz, LSOH, 30%, albastru

Drum 500m



## Schrack-Info

- Cabluri pentru instalații de uz generic în sisteme de cablare structurată.
- Suportă toate aplicațiile Clasă D la Clasă F (z.B. 10GBase-T, 1000Base-T, 100Base-TX, ATM) Precum și VoIP, PoE

### STANDARDE:

- ISO/IEC 11801, EN 50173-1
- Mai bun decât categorie 7 conform IEC 61156-5, EN 50288-4-1
- Mult mai bun decât IEEE 802.3an 10 Gigabit Ethernet

S/FTP

Cat. 7

LSOH

D<sub>ca</sub>

## Fișe tehnice

|                    |                                    |
|--------------------|------------------------------------|
| Categorie          | Cat.7                              |
| Ecranaj            | S/FTP                              |
| Conductor material | Solid bare copper AWG23/1 (0.58mm) |
| Color code pairs   | Pair 1 White / Blue                |

## Fișe tehnice - Continuare

|  |   |
|--|---|
|  | Pair 2 White / Orange<br>Pair 3 White / Green<br>Pair 4 White / Brown   |
| Number of pairs  | 4, all twisted together   |
| Insulation material  | Foamed polyethylene   |
| Nominal diameter over insulation (mm)  | 1,45  |
| Ecranaj  | ecranat   |
| Pair-Foil  | Laminated aluminium polyester, Aluminium facing outside (PiMF)  |
| Overall Shield   | Solid tinned copper   |
| Braid coverage (%)   | 30  |
| Ripcord  | Nylon   |
| Manta  | LSOH  |
| Manta  | LSOH, FRNC according to:<br>IEC 61034-1/2, EN 50268-1/2<br>IEC 60754-1/2, EN 50267-1/2<br>IEC 60332-1, EN 60332-1 |
| Euroclass acc. to EN50575  | Dca   |
| Smoke production   | s2  |
| Droplets   | d1  |
| Acidity  | a1  |
| Burning load (kJ/m)  | 500   |
| Diametru exterior (mm)   | 7,2   |
| Diametru net (mm)  | 7,20  |
| Masă netă (kg.)  | 0,06  |
| Weight nominal (kg/km)   | 52  |
| Culoare  | albastru  |
| Lungime / împachetare  | tambur de 500m  |
| Temperatura minimă a mediului ambiant (°C)                                       | -30   |
| Temperatura maximă a mediului ambiant (°C)                                       | 60  |
| Temperature range - Operation (°C)   | -30 to +60  |
| Temperature range - Installation (°C)  | +0 bis +50  |
| Bending radii cable - Static (Ø)   | 4   |
| Bending radii cable - Dynamic (Ø)  | 8   |
| Max. pulling tension (N)   | 110   |
| Tensiune nominală  | < 72V DC and < 50V AC   |
| Max. continuous current per conductor (25°C) (A)                                 | 1,5   |
| DC resistance at 20° C (Ohm/100m)  | < 9,5   |
| Resistance unbalance: within a pair / between pairs (%)                          | < 2 / < 4   |
| D.C. insulation resistance: conductor – conductor and conductor – screen (MΩ*km) | ≥ 5000  |
| Dielectric strength conductor – conductor (2 sec) (kV DC)                        | 2,5   |
| Dielectric strength conductor – screen (2 sec) (kV DC)                           | 2,5   |
| Mutual capacitance (nF/km)   | < 56  |

## Fișe tehnice - Continuare

|  |        |
|--|--------|
| Capacitance unbalance pair to ground (pF/km) | < 1600 |
| NVP (%)                                      | 78     |

## ELECTRICAL CHARACTERISTICS AT 20°C ACCORDING TO IEC 61156-5

|   | Freq. (MHz)  | Specification                | Unit    |
|---|--------------|------------------------------|---------|
| NVP (Nominal velocity of propagation)               | 4 – 600      | 0,78                         | c       |
| Skew  | 4 – 600      | ≤ 25                         | ns/100m |
| Propagation delay                                   | 4 – 600      | ≤ 534 + 36/Vf                | ns/100m |
| Attenuation   | 4 – 600      | ≤ 1,8*Vf+0,01*f+0,20/Vf      | dB      |
| TCL, level 1 (Transverse conversion loss)           | 1 – 250      | > 40 – 10*log (f)            | dB      |
| ELTCL (Equal level transverse conversion loss)      | 1 – 30       | > 35 – 20*log (f)            | dB      |
| NEXT (Near end cross talk)                          | 4 – 600      | ≥ 102,4-15*log (f) (78 max.) | dB      |
| PS NEXT (Power sum near end cross talk)             | 4 – 600      | ≥ 99,4-15*log (f) (75 max.)  | dB      |
| ACR-N (Attenuation cross talk ratio)                | 4 – 600      | NEXT – Dämpfung              | dB      |
| PS ACR-N (Power sum attenuation cross talk ratio)   | 4 – 600      | PSNEXT – Dämpfung            | dB      |
| ACR-F (Equal level far end cross talk)              | 4 – 600      | ≥ 95,3-20*log (f) (78 max.)  | dB      |
| PS ACR-F (Power sum equal level far end cross talk) | 4 – 600      | ≥ 92,3-20*log (f) (75 max.)  | dB      |
| Input impedance open / short (Zo/s)                 | 4 – 600      | 100                          | Ω       |
| RL (Return loss)                                    | 4 ≤ f ≤ 10   | ≥ 20 + 5*log (f)             | dB      |
|   | 10 ≤ f ≤ 20  | ≥ 25                         | dB      |
|   | 20 ≤ f ≤ 600 | ≥ 25-7*log (f/20)            | dB      |
| Coupling attenuation (type I)                       | 30 – 100     | ≥ 55                         | dB      |
|   | 100 – 1000   | ≥ 55-20*log (f/100)          | dB      |
| Transfer impedance (ZT, grade 1)                    | 1            | < 50                         | mΩ/m    |
|   | 10           | < 100                        | mΩ/m    |
|   | 30           | < 200                        | mΩ/m    |
|   | 100          | < 1000                       | mΩ/m    |

## Datei Tabelle: Cablu S/FTP Cat.7, 4x2xAWG23/1, 1.000Mhz,LSOH,30%, albastru

| Frequency   | 1 *  | 4    | 10   | 16   | 31,2 | 62,5 | 100  | 125  | 200  | 250  | 300  | 600  | 1000* | MHz     |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------|
| Attenuation | 2    | 3,7  | 5,9  | 7,4  | 10,4 | 14,9 | 19   | 21,4 | 27,5 | 31,0 | 34,2 | 50,1 | 66,9  | dB/100m |
| NEXT        | 78   | 78   | 78   | 78   | 78   | 75,5 | 72,4 | 70,9 | 67,9 | 66,4 | 65,2 | 60,7 | 57,4  | dB/100m |
| PS NEXT     | 75   | 75   | 75   | 75   | 75   | 72,5 | 69,4 | 67,9 | 64,9 | 63,4 | 62,2 | 57,7 | 54,4  | dB/100m |
| ACR-N       | 76,0 | 74,3 | 72,1 | 70,6 | 67,6 | 60,6 | 53,4 | 49,6 | 40,4 | 35,5 | 40,4 | 10,6 | -9,5  | dB/100m |
| PS ACR-N    | 73   | 71,3 | 69,1 | 67,6 | 64,6 | 57,6 | 50,4 | 46,6 | 37,4 | 32,5 | 28,1 | 7,6  | -12,5 | dB/100m |
| ACR-F       | 78   | 78   | 75,3 | 71,2 | 65,4 | 59,4 | 55,3 | 53,4 | 49,3 | 47,3 | 45,8 | 39,7 | 35,3  | dB/100m |
| PS ACR-F    | 75   | 75   | 72,3 | 68,2 | 62,4 | 56,4 | 52,3 | 50,4 | 46,3 | 44,3 | 42,8 | 36,7 | 32,3  | dB/100m |
| RL          | 20   | 23   | 25   | 25   | 23,6 | 21,5 | 20,1 | 19,4 | 18   | 17,3 | 17,3 | 17,3 | 17,3  | dB/100m |

\* Limits below 4 MHz and values at 1000 MHz are for information only.

## TYPICAL VALUES

| Frequency   | 1*  | 4   | 10  | 16  | 31,3 | 62,5 | 100  | 125  | 200  | 300  | 600  | 1000 | MHz     |
|-------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|---------|
| Attenuation | 1,8 | 3,3 | 5,3 | 6,7 | 9,4  | 13,4 | 17,1 | 19,3 | 26,7 | 30,8 | 45,5 | 60,3 | dB/100m |
| NEXT        | 103 | 100 | 98  | 97  | 95   | 94   | 93   | 92   | 91   | 90   | 89   | 88   | dB/100m |
| PS NEXT     | 100 | 97  | 95  | 94  | 92   | 91   | 90   | 89   | 88   | 87   | 86   | 85   | dB/100m |
| ACR-N       | 101 | 97  | 93  | 91  | 85   | 81   | 76   | 71   | 64   | 59   | 43   | 28   | dB/100m |
| PS ACR-N    | 98  | 94  | 90  | 88  | 82   | 78   | 73   | 70   | 61   | 56   | 40   | 25   | dB/100m |
| ACR-F       | 95  | 94  | 93  | 91  | 90   | 87   | 85   | 83   | 77   | 74   | 60   | 50   | dB/100m |
| PS ACR-F    | 92  | 91  | 92  | 88  | 87   | 84   | 82   | 80   | 74   | 71   | 57   | 47   | dB/100m |
| RL          | 27  | 30  | 32  | 32  | 35   | 33   | 32   | 31   | 30   | 25   | 23   | 21   | dB/100m |

Typical values are for information only.

## Tabel articole

| Descriere  | NVP (%) | Comanda nr. |
|--|---------|-------------|
| Cablu S/FTP Cat.7, 4x2xAWG23/1, 1.000Mhz,LSOH,30%, albastru<br>Drum 500m | 78      | HSKP423HP5  |
| <b>Accesorii opționale</b>   |         |             |
| Modul RJ45 ecranat, Cat.6a 10GB PoE+, PERFORMANCE LINE<br>(SFB)          |         | HSPMRJ6G1A  |
| Modul RJ45 ecranat, Clasa Ea 10GB PoE+, PERFORMANCE LINE<br>(SFB)        |         | HSPMRJ6G1T  |
| Modul RJ45 ecranat, Cat.6a, ISO/IEC 11801 AMD2,TOOLLESS LINE             |         | HSEMRJ6GWA  |
| Modul RJ45 ecranat, Cat.6 De-emb., Kl.Ea, 10GB, TOOLLESS LINE            |         | HSEMRJ6GWT  |
| Modul RJ45 ecranat, Class E, TOOLLESS LINE                               |         | HSEMRJ6GWS  |
| Derulator tambur cablu lățime 52cm,maxim 250kg                           |         | HTOOL00006  |