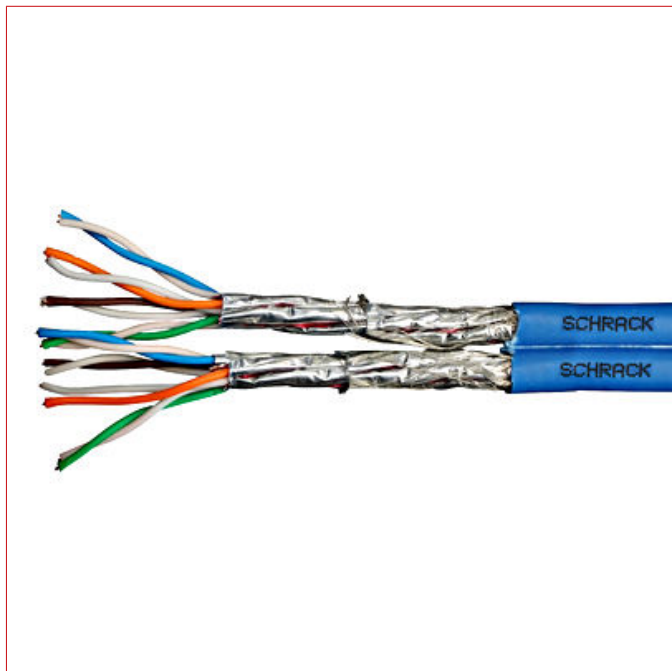


Technische Fiche: HSKP823HB9

# Kabel S/FTP Cat.7 2x(4x2xAWG23/1) 1000MHz LSOH Dca 40% blauw

Dca-s2,d2,a1 blauw; Standaard wordt deze kabel enkel per volle verpakking geleverd.  
Gelieve de link 'Kies hier uw verpakkingseenheid' onder de afbeelding te volgen.



## Schrack Info

- Installatiekabel voor gestructureerde bekabeling.
- Ondersteunt huidige en toekomstige toepassingen van klasse D tot F (vb. 10GBase-T, 1000Base-T, 100Base-TX, ATM) alsook VoIP, PoE, 4PPoE
- Primair (Campus), Secundair (Riser), Tertiair (Horizontal)

### NORMEN:

- ISO/IEC 11801, EN 50173-1
- Beter dan Cat. 7 volgens IEC 61156-5, EN 50288-4-1
- Veel beter dan IEEE 802.3an 10 Gigabit Ethernet



## Technische gegevens

|              |        |
|--------------|--------|
| Productgamma | S-JACK |
| Categorie    | Cat.7  |

## Technische gegevens - vervolg

|                                                           |                                                                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Kabelafscherming                                          | S/FTP                                                                                                        |
| Uitvoering geleider                                       | Massieve koperdraad AWG23/1 (0,58mm)                                                                         |
| Kleurcodering geleiders                                   | Paar 1: wit/ blauw<br>Paar 2: wit/ oranje<br>Paar 3: wit/ groen<br>Paar 4: wit/ bruin                        |
| Aantal paren                                              | 2 x 4, alle samen getwist                                                                                    |
| Isolatiemateriaal                                         | Geschuimd polyethyleen                                                                                       |
| Dikte isolatie (mm)                                       | 1<br>43                                                                                                      |
| Afscherming                                               | Met afscherming                                                                                              |
| Afscherming paren                                         | Aluminium gelamineerd polyester                                                                              |
| Algemene afscherming                                      | Massief vertind koperdraad                                                                                   |
| Afscherming (%)                                           | 40                                                                                                           |
| Ripcord                                                   | Nylon                                                                                                        |
| Kabelmantel                                               | LS0H                                                                                                         |
| Materiaal buitenisolatie                                  | LS0H, FRNC conform:<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 |
| Euroklasse volgens EN50575                                | Dca                                                                                                          |
| Rook ontwikkeling/ dichtheid                              | s2                                                                                                           |
| Brandende druppels                                        | d2                                                                                                           |
| Weerstand zuurinwerking/ corrosiviteit                    | a1                                                                                                           |
| Brandbelasting (kJ/m)                                     | 1000                                                                                                         |
| Buitendiameter (mm)                                       | 7,0 x 15,4                                                                                                   |
| Nominaal gewicht (kg/km)                                  | 111                                                                                                          |
| Kleur buitenmantel                                        | Blauw RAL5015                                                                                                |
| Afwerking                                                 | Blauw                                                                                                        |
| Temperatuursbereik - Werking (°C)                         | -30°C tot +60                                                                                                |
| Temperatuursbereik - Installatie (°C)                     | 0°C tot +50                                                                                                  |
| Buigradius kabel - Statisch (Ø)                           | 4                                                                                                            |
| Buigradius kabel - Dynamisch (Ø)                          | 8                                                                                                            |
| Maximale treksterkte (N)                                  | 220                                                                                                          |
| Nominale spanning                                         | ≤72VDC/ ≤50VAC                                                                                               |
| Maximum continue stroom per geleider (bij 25°C) (A)       | 1,5                                                                                                          |
| Gelijkstroomweerstand bij 20°C (Ohm/100m)                 | ≤9,5                                                                                                         |
| Weerstandasymmetrie: per paar / tussen paren (%)          | ≤2 / ≤4                                                                                                      |
| DC isolatieweerstand (MΩ*km)                              | ≥ 5000                                                                                                       |
| Diëlektrische sterkte geleider - geleider (2s) (kV DC)    | 2,5                                                                                                          |
| Diëlektrische sterkte geleider - afscherming (2s) (kV DC) | 2,5                                                                                                          |
| Wederzijdse capaciteit (nF/km)                            | ≤56                                                                                                          |
| Capacitance unbalance pair to ground (pF/km)              | ≤1600                                                                                                        |

## Technische gegevens - vervolg

|                                           |                                                  |
|-------------------------------------------|--------------------------------------------------|
| Nominale voortplantingssnelheid (NVP) (%) | 78                                               |
| IEEE Conformiteit                         | PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4 |
| Kabellengtes                              | Trommel 100m                                     |
| Verpakking                                | 100m                                             |

## 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     | ≥ 85                             | dB      |
|                                                     | 100 – 1000   | ≥ 85 - 20 * log (f/100)          | dB      |
| Transfer impedance (ZI, grade 1)                    | 1            | < 10                             | mΩ/m    |
|                                                     | 10           | < 10                             | mΩ/m    |
|                                                     | 30           | < 30                             | mΩ/m    |
|                                                     | 100          | < 100                            | mΩ/m    |

## REFERENCE STANDARD: IEC 61156-5

| Frequency   | 1 * | 4    | 10   | 16   | 31,3 | 62,5 | 100  | 125  | 200  | 300  | 600  | 1000 * | MHz     |
|-------------|-----|------|------|------|------|------|------|------|------|------|------|--------|---------|
| Attenuation | 2   | 3.7  | 5.9  | 7.4  | 10.4 | 14.9 | 19   | 21.4 | 27.5 | 34.2 | 50.1 | 66.9   | dB/100m |
| NEXT        | 78  | 78   | 78   | 78   | 78   | 75.5 | 72.4 | 70.9 | 67.9 | 65.2 | 60.7 | 57.4   | dB/100m |
| PS NEXT     | 75  | 75   | 75   | 75   | 75   | 72.5 | 69.4 | 67.9 | 64.9 | 62.2 | 57.7 | 54.4   | dB/100m |
| ACR-N       | 76  | 74.3 | 72.1 | 70.6 | 67.6 | 60.6 | 53.4 | 49.6 | 40.4 | 31.1 | 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 | 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 | 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 | 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 | 15.1   | 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 |

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

## Artikelen

| Omschrijving                                                                                                                                                                                                                         | NVP (%) | Kopergewicht (kg/km) | Referentie |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|------------|
| Kabel S/FTP Cat.7 2x(4x2xAWG23/1) 1000MHz LS0H Dca 40% blauw<br>Dca-s2,d2,a1 blauw; Standaard wordt deze kabel enkel per volle verpakking geleverd. Gelieve de link 'Kies hier uw verpakkingseenheid' onder de afbeelding te volgen. | 78      | 56                   | HSKP823HB9 |
| <b>Optionele toebehoren</b>                                                                                                                                                                                                          |         |                      |            |
| S-JACK Keystone RJ45 STP Cat.6a 10GB 4PPoE 100W SFB 24stk.<br>Per doos van 24stk.                                                                                                                                                    |         |                      | HSEMRJ6GS2 |
| S-JACK Keystone RJ45 STP Cat.6a 10GB 4PPoE 100W SFB 1stk.<br>Beschikbaar per stuk                                                                                                                                                    |         |                      | HSEMRJ6GS1 |
| TOOLLESS LINE Keystone RJ45 afgeschermd Cat.6a 10GB (SFA)                                                                                                                                                                            |         |                      | HSEMRJ6GWA |
| TOOLLESS LINE Keystone RJ45 afgeschermd Klasse Ea 10GB (SFA)<br>(SFA)                                                                                                                                                                |         |                      | HSEMRJ6GWT |
| TOOLLESS LINE Keystone RJ45 afgeschermd Cat.6 (SFA)                                                                                                                                                                                  |         |                      | HSEMRJ6GWS |
| Kabelaflroller <250kg breedte <52cm                                                                                                                                                                                                  |         |                      | HTOOL00006 |
| Kabelbinder Velcro 16mm rol 4m blauw                                                                                                                                                                                                 |         |                      | Q7KB0416-B |
| Kabelbinder Velcro 16mm rol 4m rood                                                                                                                                                                                                  |         |                      | Q7KB0416-R |
| Kabelbinder Velcro 16mm rol 4m zwart                                                                                                                                                                                                 |         |                      | Q7KB0416-S |
| Kabelbinder Velcro 16mm rol 4m geel                                                                                                                                                                                                  |         |                      | Q7KB0416-Y |
| Kabelbinder Velcro 16mm rol 4m groen                                                                                                                                                                                                 |         |                      | Q7KB0416-U |