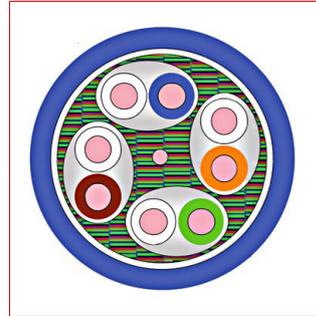
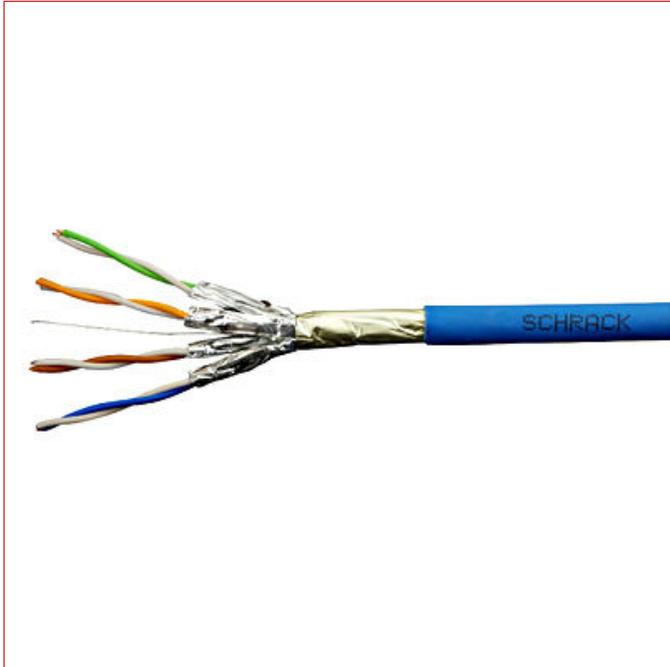


Data Sheet for Article: HSEKP423HA

F/FTP Cable Cat.6a, 4x2xAWG23/1, 500MHz, LSOH-3, Dca, blue

Sale per meter



SCHRACK-Info

The F/FTP Cat. 6_A cable is specified up to 500 MHz and provides transmission performance meeting Category 6_A cable specifications EN 50288-10 and Category 6_A specification according to IEC 61156-5 (Ed.2 – 2009) Outstanding system headrooms of the complete cabling system in compliance with ISO/IEC 11801 (2010) and EN 50173. Outstanding performance for the transmission of digital data signals for applications up to 10GbE in compliance with the new Class E_A and IEEE 802.3an standard. These cables are low skew products, i.e. the difference in propagation delay between the individual pairs is very low. This is increasingly being requested for Gigabit Ethernet and 10 Gigabit Ethernet. The suitability of the cable for high-bit-rate transmission systems ensures a high degree of future proofing. Additional features are the slim design and low weight of the cables. Each pair is individually shielded with foil (FTP). The twisted pairs are additionally enclosed with a foil shielding (F/FTP) to provide superior shielding performance. The cable thus exceeds the requirements for EN 55022 Class B emission and EN 55024 immunity, enabling networks to be built which are compliant with the standards on electromagnetic compatibility. The compact design allows the cables to be installed flat or folded together.

CHARACTERISTICS

- Specified up to 500 MHz
- Fulfills the requirements of the standards EN 50288-10 up to 500 MHz, IEC 61156-5 and „Cat. 6 augmented“ in compliance with TIA/EIA 568 and IEC61156-5 (Ed.2 – 2009)
- Outstanding electrical characteristics
- Tinned ground wire centrally running in
- Complete shielding with metal foil

- Low propagation delay and low delay skew between the pairs
- Halogen-free version LS0H-3 to IEC 60332-3-24; IEC 60332-1; IEC 60754-2; IEC 61034



Technical Data

Category	Cat.6A
Cable shielding	F/FTP
Conductor material	Solid bare copper AWG23/1
Conductor	4 individual shielded pairs
Color code pairs	Pair 1 White / Blue Pair 2 White / Orange Pair 3 White / Green Pair 4 White / Brown
Insulation material	Polyethylene (PE)
Shielding	shielded
Pair-Foil	Laminated aluminium polyester, Aluminium facing outside (PiMF)
Overall Shield	Aluminum foil
Cable jacket	LS0H-3
Jacket	LS0H-3: IEC 60332-3-24 IEC 60332-1 IEC 60754-2 IEC 61034
Euroclass acc. to EN50575	Dca
Smoke production	s2
Droplets	d2
Acidity	a1
Sheath colour	Blue
Burning load (kJ/m)	570
Bit rate	10Gbit
Wire insulation	Halogen-free foam/skin material
Drain wire	AWG26/1
Fire performance according IEC 60332-1	Yes
Outside diameter (mm)	7,2
Weight nominal (kg/km)	48
Colour	Blue
Temperature range - Operation (°C)	-20 to +60
Temperature range - Installation (°C)	+0 to +50
Bending radii cable - Operation (longterm) (Ø)	3
Bending radii cable - Installation (shortterm) (Ø)	7
Max. pulling tension (N)	110
Rated voltage	≤72V DC and ≤50V AC
Insulation resistance (MΩ*km)	≥2000

Technical Data - continued

Propagation delay (ns/m)	4,2
Mutual capacitance (nF/km)	48
Loop resistance (Ω /km)	≤ 176
Resistance difference (%)	≤ 2
Coupling Resistance (m Ω /m)	50 at 10MHz
Impedance	at 0.064 MHz: 125 Ω \pm 20% at 1 up to 100 MHz: 100 Ω \pm 15% at 101 up to 250 MHz: 100 Ω \pm 22% at 251 up to 600 MHz: 100 Ω \pm 22%
Longitudinal conversion loss dB/ref.	100m: ≥ 46 dB at 64 kHz 100m: ≥ 40 dB at 1 MHz 100m: ≥ 20 dB at 100 MHz
Grounding coupling at 0.001 MHz (pF/km)	1000
SKEW (ns/100m)	≤ 20
NVP (%)	79
IEEE Compliance	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Packing	Drum 1000m Drum 500m

REFERENCE STANDARD: IEC 61156-5

Frequency	1	10	16	20	31.25	62.5	100	250	500	MHz
Attenuation	2.1	5.9	7.5	8.4	10.5	15	19.1	31.1	45.3	dB/100m
NEXT	75.3	60.3	57.2	55.8	52.9	48.4	45.3	39.3	34.8	dB/100m
PS NEXT	72.3	57.3	54.2	52.8	49.9	45.4	42.3	36.3	31.8	dB/100m
ACR-F	68	48	43.9	42	38.1	32.1	28	20	14	dB/100m
PS ACR-F	65	45	40.9	39	35.1	29.1	25	17	11	dB/100m
ACR-N	73.2	54.4	49.8	47.4	42.4	33.4	26.2	8.3	-10.4	dB/100m

* Limits below 4 MHz are informative.

TYPICAL VALUES

Frequency	1	10	16	20	31,25	62,5	100	250	500	MHz
Attenuation	1,8	5,3	6,8	7,6	9,6	13,6	17,3	27,7	41,9	dB/100m
NEXT	>100	>100	>100	>100	>100	97	95	90	83	dB/100m
PS NEXT	98	98	98	98	98	95	93	88	81	dB/100m
ACR-F	93	93	93	93	90	86	83	70	57	dB/100m
PS ACR-F	90	90	90	90	87	83	80	67	54	dB/100m
ACR-N	98,2	94,7	93,2	92,4	90,4	83,4	77,7	62,3	41,1	dB/100m

Typical values are for information only.

Article Table

DESCRIPTION	NVP (%)	COPPER WEIGHT (kg/km)	Order No.
F/FTP Cable Cat.6a, 4x2xAWG23/1, 500MHz, LSOH-3, Dca, blue Sale per meter	79	20	HSEKP423HA
Optional Accessories			
S-JACK Module RJ45 shielded, Cat.6a 10GB, 24 pieces box 4PPoE 100W, SFB			HSEMRJ6GS2
S-JACK Module RJ45 shielded, Cat.6a 10GB, Single Pack 4PPoE 100W, SFB			HSEMRJ6GS1
TOOLLESS LINE Jack RJ45 shielded, Cat.6a 10GB, 24 pieces box 4PPoE 100W, (SFB), Type: HSEMRJ6GBA			HSEMRJ6GB2
TOOLLESS LINE Jack RJ45 shielded, Cat.6a 10GB 4PPoE 100W (SFB)			HSEMRJ6GBA
TOOLLESS LINE Jack RJ45 shielded, Cat.6a 10GB 4PPoE 100W (SFA)			HSEMRJ6GWA
Cable dispenser for 250kg Load for drums up to 52cm width			HTOOL00006
Back to back cable tie blue 16mm x 4m			Q7KB0416-B
Back to back cable tie red 16mm x 4m			Q7KB0416-R
Back to back cable tie black 16mm x 4m			Q7KB0416-S
Back to back cable tie yellow 16mm x 4m			Q7KB0416-Y
Back to back cable tie green 16mm x 4m			Q7KB0416-U