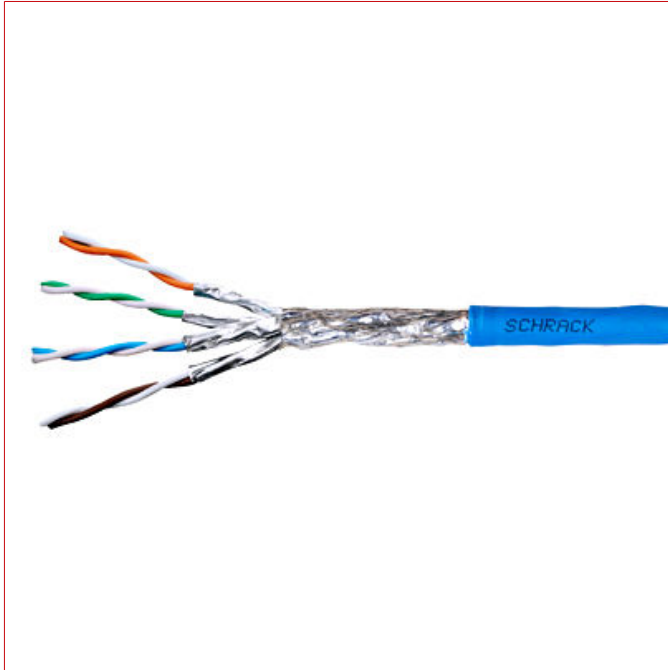


Data Sheet for Article: HSKP422HA9

S/FTP Cable Cat.7a, 4x2xAWG23/1, 1.200MHz, LSOH, Dca, 30%

blue RAL5015, drum 100m



SCHRACK-Info

- Installation cable for generic cabling systems.
- Support current and future applications requiring Class D to F_A (z.B. 10GBase-T, 1000Base-T, 100Base-TX, 10Base-T, FDDI, ATM) as well as VoIP, PoE, 4PPoE
- Primary (Campus), Secondary (Backbone), Teritary (Horizontal)
- Version: Simplex

STANDARDS:

- ISO/IEC 11801, EN 50173-1
- Better than category 7_A according to IEC 61156-5, EN 50288-9-1
- Much better than IEEE 802.3an 10 Gigabit Ethernet

Technical Data

Net length (mm)	1.000,00
Net diameter (mm)	7,50
Net weight (kg)	0,06
Min. ambient temperature (°C)	-30
Max. ambient temperature (°C)	60

Technical Data - continued

Category	Cat.7A
Cable shielding	S/FTP
Conductor	4 individual shielded pairs
Conductor material	Solid bare copper AWG23/1
Color code pairs	Pair 1 White / Blue Pair 2 White / Orange Pair 3 White / Green Pair 4 White / Brown
Insulation material	Foamed polyethylene
Nominal diameter over insulation (mm)	1,42
Shielding	shielded
Pair-Foil	Laminated aluminium polyester, Aluminium facing outside (PiMF)
Overall Shield	Solid tinned copper
Braid coverage (%)	30
Cable jacket	LS0H
Jacket	LS0H, FRNC acc. to IEC 61034-1/2, EN 50268-1/2 IEC 60754-2, EN 50267-2 IEC 60332-1-2, EN 60332-1-2
Euroclass acc. to EN50575	Dca
Smoke production	s2
Droplets	d2
Acidity	a1
Burning load (kJ/m)	700
Outside diameter (mm)	7,5
Weight nominal (kg/km)	53
Sheath colour	blue, RAL 5015
Colour	Blue
Temperature range - Operation (°C)	-30 to +60
Temperature range - Transport/storage (°C)	-30 to +60
Temperature range - Installation (°C)	+0 to +50
Bending radii cable - Operation (longterm) (Ø)	4
Bending radii cable - Installation (shortterm) (Ø)	8
Max. pulling tension (N)	105
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
Capacitance unbalance pair to ground (pF/km)	< 1600
Characteristic impedance (Ω)	100 +/- 5
NVP (%)	76

Technical Data - continued

IEEE Compliance	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Length/Port-ups	100m - Drum

Table:

Frequency	1	4	10	16	31.2	62.5	100	155	250	500	600	1000	1200	MHz
Attenuation	2.1	3.7	5.8	7.3	10.3	14.6	18.5	23.2	29.7	42.8	47.1	61.9	68.4	dB/100m
NEXT	78	78	78	78	78	78	75.4	72.5	69.4	64.9	63.7	60.4	59.2	dB
PS NEXT	75	75	75	75	75	75	72.4	69.5	66.4	61.9	61.3	57.4	56.2	dB
ACR	75.9	74.3	72.2	70.7	67.7	63.4	56.9	49.3	39.7	22.2	16.6			dB/100m
PS ACR	72.9	71.3	69.2	67.7	64.7	60.4	54.5	46.9	37.3	19.7	14.2			dB/100m
ACR-F	78	78	75.3	71.2	65.4	59.4	55.3	51.5	47.3	41.3	39.7	35.3	27.3	dB/100m
PS ACR-F	75	75	72.3	68.2	62.4	56.4	52.3	48.5	44.3	38.3	36.7	32.3	24.3	dB/100m
Rückflusdämpfung	20	23	25	25	23.6	21.5	20.1	18.8	17.3	17.3	17.3	15.1	14.3	dB/100m
TCL Level 1	40	34	30	28	25.2	22	20	18.1	16					dB
EL TCTL	35	23	15	10.9	5.1									dB
Propagation delay	570	552	545	543	540	539	538	537	536	536	536	535	535	ns/100m

Limits below 4MHz are for information only.

Table:

Frequency	1	4	10	16	31.2	62.5	100	155	250	500	600	1000	1200	dB/100m
Attenuation	1.9	3.5	5.6	7.1	10	14.1	18	22.6	28.9	41.3	45.6	60.2	66.7	dB/100m
NEXT	103	100	98	97	95	94	93	92	91	90	89	88	87	dB/100m
PS NEXT	100	97	95	94	92	91	90	89	88	87	86	85	84	dB/100m
ACR	101	97	93	91	85	80	75	70	62	49	43	28	20	dB/100m
PS ACR	98	94	90	88	82	77	72	67	59	46	40	25	17	dB/100m
ACR-F	95	94	93	91	90	87	85	82	71	65	60	40	32	dB/100m
PS ACR-F	92	91	90	88	87	84	82	79	68	62	57	37	29	dB/100m
Return Loss	27	30	32	32	35	33	32	31	27	23	23	19	17	dB/100m

Article Table

DESCRIPTION	NVP (%)	Order No.
S/FTP Cable Cat.7a, 4x2xAWG23/1, 1.200MHz, LS0H, Dca, 30% blue RAL5015, drum 100m	76	HSKP422HA9
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 4PPoE 100W (SFA)		HSEMRJ6GWA
TOOLLESS LINE Jack RJ45 shielded, Cat.6a 10GB 4PPoE 100W (SFB)		HSEMRJ6GBA
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