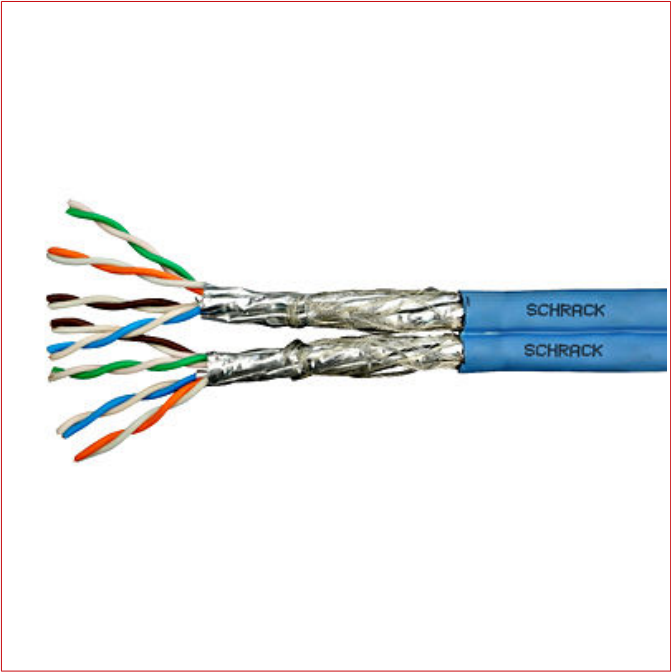


Data Sheet for Article: HSEKP823BB

S/FTP Cable Cat.7, 2x(4x2xAWG23/1), 1000MHz, LSOH, 30%, B2ca

sl a,d1,a1, blue, Sale per meter



S/FTP

Cat. 7

LSOH

B2_{ca}

Technical Data

Category	Cat.7
Cable shielding	S/FTP
Conductor material	Solid bare copper AWG23/1 (0.58mm)
Conductor	2 x 4 individual shielded pairs
Color code pairs	Pair 1 White / Blue Pair 2 White / Orange Pair 3 White / Green Pair 4 White / Brown
Number of pairs	2 x 4, all twisted together
Insulation material	Foamed polyethylene
Nominal diameter over insulation (mm)	1 43
Shielding	shielded
Pair-Foil	Laminated aluminium polyester, Aluminium facing outside (PiMF)

Technical Data - continued

Overall Shield	Solid tinned copper
Braid coverage (%)	30
Ripcord	Nylon
Cable jacket	LSOH
Jacket	LSOH, FRNC according to: IEC 61034-1/2, EN 50268-1/2 IEC 60754-1/2, EN 50267-1/2 IEC 60332-1, EN 60332-1
Euroclass acc. to EN50575	B2ca
Smoke production	s1a
Droplets	d1
Acidity	a1
Sheath colour	blue, RAL 5015
Burning load (kJ/m)	1200
Outside diameter (mm)	7,6 x 16,8
Weight nominal (kg/km)	130
Colour	Blue
Temperature range - Operation (°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)	220
Rated voltage	≤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
Capacitance unbalance pair to ground (pF/km)	≤1600
Frequencies tested to (MHz)	1000
NVP (%)	78
IEEE Compliance	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4

REFERENCE STANDARD: IEC 61156-5

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 at 1000 MHz are informative.

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.

Article Table

DESCRIPTION	NVP (%)	COPPER WEIGHT (kg/km)	Order No.
S/FTP Cable Cat.7, 2x(4x2xAWG23/1), 1000MHz, LSOH, 30%, B2ca s1a,d1,a1, blue, Sale per meter	78	51	HSEKP823BB
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, Class Ea 10GB 4PPoE 100W (SFA)			HSEMRJ6GWT
TOOLLESS LINE Jack RJ45 shielded, Cat.6 (SFA)			HSEMRJ6GWS
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

Article Table

DESCRIPTION	NVP (%)	COPPER WEIGHT (kg/km)	Order No.
Optional Accessories			
Back to back cable tie green 16mm x 4m			Q7KB0416-U