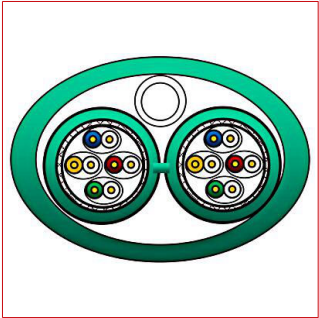
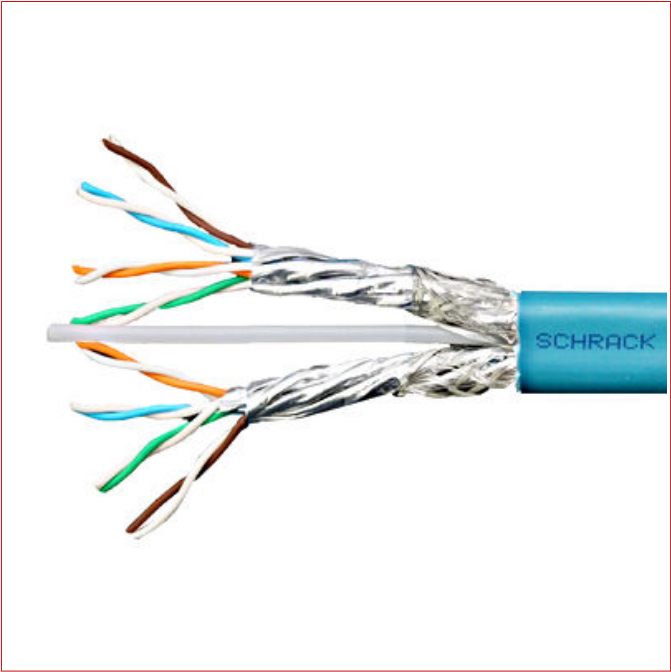


Datenblatt für Artikel: HVSKT823BA

S/FTP C7 2x(4x2xAWG23/1), 1200MHz, LS0H-3, B2ca, 65%

FO support, water blue, Sale per meter



SCHRACK-Info

Installationcables for generic, structured network cabling systems

- Horizontal and building backbone cable
- Support all applications requiring Class D to Class F applications, such as:
10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM as well as VoIP, PoE

GENERAL STANDARDS

- International standard: ISO/IEC 11801 2nd edition (2002) and ISO/IEC 11801 Amendment 2 (2010)
- European standard: EN 50173-1 (2011)



Technische Daten

Category	Cat.7
Cable shielding	S/FTP
Conductor material	Solid bare copper AWG23/1 (0.58mm)
Conductor	2 x 4 individuell geschirmte, verseilte Paare + LWL-Röhrchen

Technische Daten - Fortsetzung

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)	1.45
Shielding	shielded
Pair-Foil	Foil
Overall Shield	Solid tinned copper
Braid coverage (%)	65
Ripcord	Nylon
Cable jacket	LS0H-3
Euroclass acc. to EN50575	B2ca
Smoke production	s1
Droplets	d1
Acidity	a1
Sheath colour	waterblue, RAL 5021
Burning load (kJ/m)	3000
Smoke density - transmittance (%)	> 60
Amount of halogen acid gas - pH	> 4.3
Amount of halogen acid gas - Conductivity (μS/m)	< 10
Outside diameter (mm)	7.2 +0.3/-0.1 x 15.2 +0.5/-0.2
Weight nominal (kg/km)	175
Colour	Aqua
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)	110
Rated voltage	72 VDC
Max. continuous current per conductor (25°C) (A)	1.5
DC resistance at 20° C (Ohm/100m)	< 9.5
D.C. insulation resistance: conductor – conductor and conductor – screen (MΩ*km)	≥ 5000
Dielectric strength conductor – conductor (2 sec) (kV DC)	2.5
Mutual capacitance (nF/km)	< 56
Capacitance unbalance pair to ground (pF/km)	< 1600
Resistance difference (%)	< 2 / < 4
Elongation at break of the conductors (%)	10
Minimum elongation at break of the insulation (%)	≥ 100
Minimum elongation at break of the sheath (%)	≥ 100
Tensile strength of sheath (MPa)	> 9
Maximum continuous current per conductor (@ 25°C) (A)	1.5

Technische Daten - Fortsetzung

SKEW (ns/100m)	≤ 25
NVP (%)	76

REFERENCE STANDARD: IEC 61156-5

High frequency @ 20°C

TYPE	1 *	4	10	16	31.2	62.5	100	125	200	300	600	1000 *	1200 *	MHz
Attenuation	2.0	3.7	5.9	7.4	10.4	14.9	19.0	21.4	27.5	34.2	50.1	66.9	74.4	dB/100m
NEXT	78.0	78.0	78.0	78.0	78.0	75.5	72.4	70.9	67.9	65.2	60.7	57.4	59.2	dB/100m
PS NEXT	75.0	75.0	75.0	75.0	75.0	72.5	69.4	67.9	64.9	62.2	57.7	54.4	56.2	dB/100m
ACR	76.0	74.3	72.1	70.6	67.6	60.6	53.4	49.6	40.4	31.1	10.6	-9.5	-15.2	dB/100m
PS ACR	73.0	71.3	69.1	67.6	64.6	57.6	50.4	46.6	37.4	28.1	7.6	-12.5	-18.2	dB/100m
ACR-F	78.0	78.0	75.3	71.2	65.4	59.4	55.3	53.4	49.3	45.8	39.7	35.3	33.7	dB/100m
PS ACR-F	75.0	75.0	72.3	68.2	62.4	56.4	52.3	50.4	46.3	42.8	36.7	32.3	30.7	dB/100m
Return Loss	20.0	23.0	25.0	25.0	23.6	21.5	20.1	19.4	18.0	17.3	17.3	17.3	17.3	dB/100m
TCL level 1	40.0	34.0	30.0	28.0	25.1	22.0	20.0	19.0	17.0					dB/100m
EL TCTL	35.0	23.0	15.0	10.9	5.1									dB/100m
Impedance upper limit	122.2	115.2	111.9	111.9	114.1	118.3	121.9	123.9	128.8	131.6	131.6	131.6	131.6	Ω
Impedance lower limit	81.8	86.8	89.4	89.4	87.7	84.5	82.0	80.7	77.6	76.0	76.0	76.0	76.0	Ω
Propagation delay	570	552	545	543	540	539	538	537	536	536	535	535	535	ns/100m

* Limits below 4MHz are for information only. Values at 1000MHz are for information only.

REFERENCE STANDARD: IEC 61156-5

Electrical parameters at 20 ° C	Freq. (MHz)	Specification	Unit
Propagation delay (phase delay)	4-600	$\leq 534 + 36/\sqrt{f}$	ns/100m
Longitudinal attenuation	4-600	$\leq 1.80 \cdot \sqrt{f} + 0.01 \cdot f + 0.20/\sqrt{f}$	dB
Transverse Conversion Loss (TCL, level 1)	1-250	$> 40 - 10 \cdot \log(f)$	dB
Equal Level Transverse Conversion Loss (ELTCTL)	1-30	$> 35 - 20 \cdot \log(f)$	dB
Near end cross talk (NEXT)	4-600	$\geq 102.4 - 15 \cdot \log(f)$ (78 max)	dB
Power sum near end cross talk (PS NEXT)	4-600	$\geq 99.4 - 15 \cdot \log(f)$ (75 max)	dB
Attenuation cross talk ratio far end (ACR-F)	4-600	$\geq 95.3 - 20 \cdot \log(f)$ (78 max)	dB
Power sum attenuation cross talk ratio far end (PS ACR-F)	4-600	$\geq 92.3 - 20 \cdot \log(f)$ (75 max)	dB
Attenuation cross talk ratio (ACR)	4-600	NEXT- longitudinal att.	dB
Power sum attenuation cross talk ratio (PS ACR)	4-600	PSNEXT - longitudinal att.	dB
Return loss (RL)	$4 \leq f \leq 10$	$\geq 20 + 5 \cdot \log(f)$	dB
	$10 \leq f \leq 20$	≥ 25	dB
	$20 \leq f \leq 600$	$\geq 25 - 7 \cdot \log(f/20)$, (17.3 min)	dB
Coupling attenuation (type 1)	30-100	≥ 85	dB
	100-1200	$\geq 85 - 20 \cdot \log(f/100)$	dB
Transfer impedance (Z _t , grade 1)	1	< 10	mΩ/m
	10	< 10	mΩ/m
	30	< 30	mΩ/m
	100	< 100	mΩ/m

TYPICAL VALUES

TYPE	1 *	4	10	16	31.2	62.5	100	125	200	300	600	1000	1200	MHz
Attenuation	1.8	3.3	5.3	6.7	9.4	13.4	17.1	19.3	26.7	30.8	45.5	67.1	60.3	dB/100m
NEXT	103	100	98	97	95	94	93	92	91	90	89	87	88	dB/100m
PS NEXT	100	97	95	94	92	91	90	89	88	87	86	84	85	dB/100m
ACR	101	97	93	91	85	81	76	73	64	59	43	20	28	dB/100m
PS ACR	98	94	90	88	82	78	73	70	61	56	40	17	25	dB/100m
ACR-F	95	94	93	91	90	87	85	83	77	74	60	45	30	dB/100m
PS ACR-F	92	91	92	88	87	84	82	80	74	71	57	42	47	dB/100m
Return Loss	27	30	32	32	35	33	32	31	30	25	23	21	21	dB/100m

Typical values are informative.

Artikeltabelle

BEZEICHNUNG	NVP (%)	KUPFERGEWICHT (kg/km)	BEST.NR.
S/FTP C7 2x(4x2xAWG23/1), 1200MHz, LSOH-3, B2ca, 65% FO support, water blue, Sale per meter	76	65	HVSKT823BA
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
Cable dispenser for 250kg Load for drums up to 52cm width			HTOOL00006
Реле силові RT1 1 контакт 12A 24В DC крок 3,5мм 16мм x 4м			Q7KB0416-S
Back to back cable tie blue 16mm x 4m x 4m			Q7KB0416-B
PCB реле силові, 1 перем. конт, 12A, 12V DC, 3,5mm 16мм x 4м			Q7KB0416-R
Зажим гнізда YRT для реле RT1/RT2/RT3/RT4, висота 15.7мм 16мм x 4м			Q7KB0416-Y
Back to back cable tie green 16mm x 4m 16мм x 4м			Q7KB0416-U