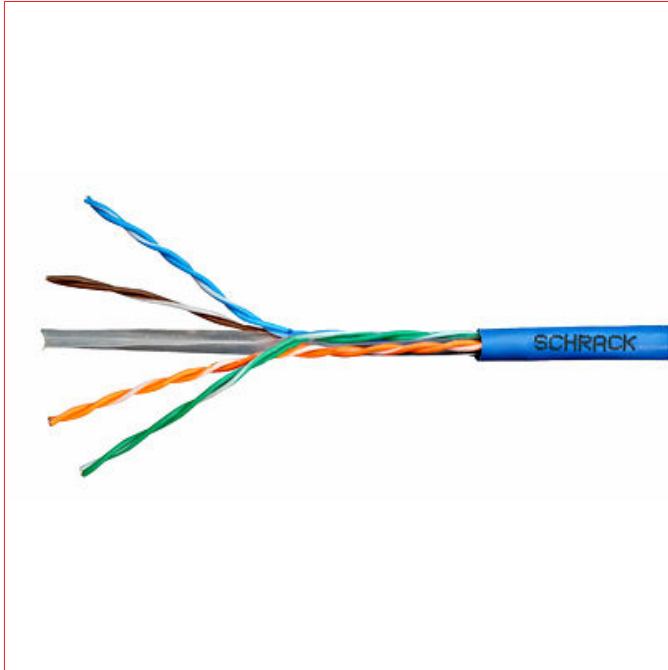


Data Sheet for Article: HSKU423H13

U/UTP Cable Cat.6, 4x2xAWG23/1, 300MHz, LSOH, Eca, blue

Box 305m



SCHRACK-Info

APPLICATION

- Horizontal and building backbone cable
- Support current and future Category 6 and 5e applications, such as: 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

GENERAL STANDARDS

- International Standard: ISO/IEC 11801 2nd edition (2002) and ISO/IEC 11801 amendment 1 (2010)
- European Standard: EN 50173-1 (2002) and EN 50173-1 Amd.1 (2009)
- U.S. Standard: ANSI/TIA/EIA 568-B.2.1 (2002)

U/UTP

Cat. 6

LSOH

E_{ca}

Technical Data

Category	Cat.6
Cable shielding	U/UTP
Conductor	4 unshielded pairs
Conductor material	Solid bare copper AWG23/1 (0.58mm)

Technical Data - continued

Color code pairs	Pair 1 White / Blue Pair 2 White / Orange Pair 3 White / Green Pair 4 White / Brown
Cross web	Polyethylene (PE)
Insulation material	Polyethylene (PE)
Nominal diameter over insulation (mm)	0,96
Shielding	unshielded
Cable jacket	LSOH
Euroclass acc. to EN50575	Eca
Fire performance according IEC 60332-1	Yes
Burning load (kJ/m)	455
Smoke density - transmittance (%)	> 60
Amount of halogen acid gas - pH	> 4,3
Amount of halogen acid gas - Conductivity ($\mu\text{S}/\text{m}$)	< 10
Outside diameter (mm)	5,7 \pm 0,3
Net diameter (mm)	5,70
Net weight (kg)	0,04
Weight nominal (kg/km)	37
Colour	Blue
Length/Put-ups	305m - Box
Min. ambient temperature ($^{\circ}\text{C}$)	-30
Max. ambient temperature ($^{\circ}\text{C}$)	60
Temperature range - Operation ($^{\circ}\text{C}$)	-30 to +60
Temperature range - Installation ($^{\circ}\text{C}$)	+0 to +50
Bending radii cable - Static (\emptyset)	3
Bending radii cable - Dynamic (\emptyset)	6
Max. pulling tension (N)	80
Rated voltage	< 72V DC and < 50V AC
DC resistance at 20 $^{\circ}$ C (Ohm/100m)	< 9,5
Resistance unbalance: within a pair / between pairs (%)	< 2 / < 4
D.C. insulation resistance: conductor – conductor and conductor – screen ($\text{M}\Omega \cdot \text{km}$)	\geq 5000
Dielectric strength conductor – conductor (2 sec) (kV DC)	2,5
Mutual capacitance (nF/km)	< 56
Capacitance unbalance pair to ground (pF/km)	< 1600
Coupling attenuation according IEC 61156-5	Type 3
Elongation at break of the conductors (%)	8
Minimum elongation at break of the insulation (%)	\geq 100
Minimum elongation at break of the sheath (%)	\geq 100
Tensile strength of sheath (MPa)	< 9
Maximum continuous current per conductor (@ 25 $^{\circ}\text{C}$) (A)	1,5
SKEW (ns/100m)	\leq 40

Technical Data - continued

NVP (%)

| 70

REFERENCE STANDARD: IEC 61156-5

Frequency	1 *	4	10	16	31,2	62,5	100	155	200	250	300	MHz
Attenuation	2,1	3,8	6	7,6	10,7	15,5	19,9	25,3	29,1	33	-	dB/100m
NEXT	75,3	66,3	60,3	57,2	52,9	48,4	45,3	42,4	40,8	39,9	-	dB/100m
PS NEXT	72,3	63,3	57,3	54,2	49,9	45,4	42,3	39,4	37,8	36,3	-	dB/100m
ARC	73,2	62,4	54,3	49,6	42,1	32,9	25,4	17,1	11,6	6,3	-	dB/100m
PS ACR	70,2	59,4	51,3	46,6	39,1	29,9	22,4	14,1	8,6	3,3	-	dB/100m
ACR-F	70	58	50	45,9	40,1	34,1	30	26,2	24	22	-	dB/100m
PS ACR-F	67	55	47	42,9	37,1	31,1	27	23,2	21	19	-	dB/100m
Return loss	20	23	25	25	23,6	21,5	20,1	18,8	18	17,3	-	dB/100m
TCI level 1	40	34	30	28	25,1	22	20	18,1	17	16	-	dB/100m
EL TCTL	35	23	15	10,9	5,1	-	-	-	-	-	-	dB/100m
Impedance upper limit	122,2	15,2	111,9	111,9	114,1	118,3	121,9	126	128,8	131,5	-	Ω
Impedance lower limit	81,8	86,8	89,4	89,4	87,7	84,5	82	79,3	77,6	76	-	Ω
Progration delay	570	552	545	543	539	538	537	537	537	536	-	dB/100m

* Limits below 4 MHz and values at 1200 MHz are for information only.

TYPICAL VALUES

Frequency	1	4	10	16	31,2	62,5	100	155	200	250	300	MHz
Attenuation	1,65	3,8	5,6	7	10,2	14,9	19,2	24,3	27,5	31	33	dB/100m
NEXT	85	75	70	66	62	58	55	52	50	49	48	dB/100m
PS NEXT	82	72	67	63	59	55	52	49	47	46	45	dB/100m
ACR	82	71	64	59	52	43	36	28	22	18	15	dB/100m
PS ACR	79	68	61	56	49	40	33	25	19	15	12	dB/100m
ACR-F	80	72	65	59	53	45	43	41	40	37	32	dB/100m
PS ACR-F	77	69	62	56	50	42	40	38	37	34	29	dB/100m
RL	25	28		30	30	28	27	26	25	25	25	dB/100m

Typical values are for information only.

Article Table

DESCRIPTION	NVP (%)	Order No.
U/UTP Cable Cat.6, 4x2xAWG23/1, 300MHz, LS0H, Eca, blue Box 305m	70	HSKU423H13
Optional Accessories		
TOOLLESS LINE Jack RJ45 unshielded, Cat.6 (SFA)		HSEMRJ6UWS
Back to back cable tie black 16mm x 4m		Q7KB0416-S
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 yellow 16mm x 4m		Q7KB0416-Y
Back to back cable tie green 16mm x 4m		Q7KB0416-U