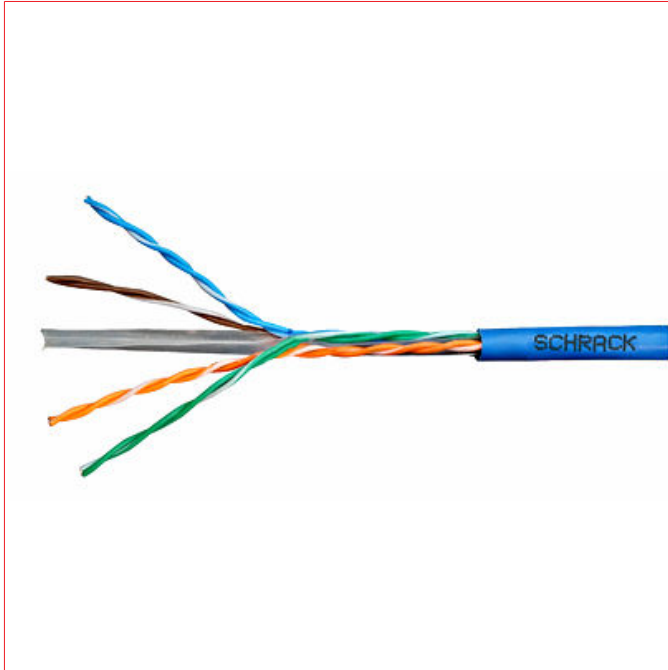


Data Sheet for Article: HSKU423H15

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

Drum 500m



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	500m - drum
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 Drum 500m	70	HSKU423H15
Optional Accessories		
TOOLLESS LINE Jack RJ45 unshielded, Cat.6 (SFA)		HSEMRJ6UWS
Cable dispenser for 250kg Load for drums up to 52cm width		HTOOL00006
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