CAT6A 4P 23AWG U/UTP LSZH LAN CABLE

P/N: DCWC6AUL305BL

Description

SHARKRACK Cat6a LSZH cable is designed for high-speed data transmission and maximum reliability.
This premium cable is Low Smoke Zero Halogen and engineered to support 10 Gigabit Ethernet connections over extended distances, ensuring that your network remains fast and efficient even in demanding environments.

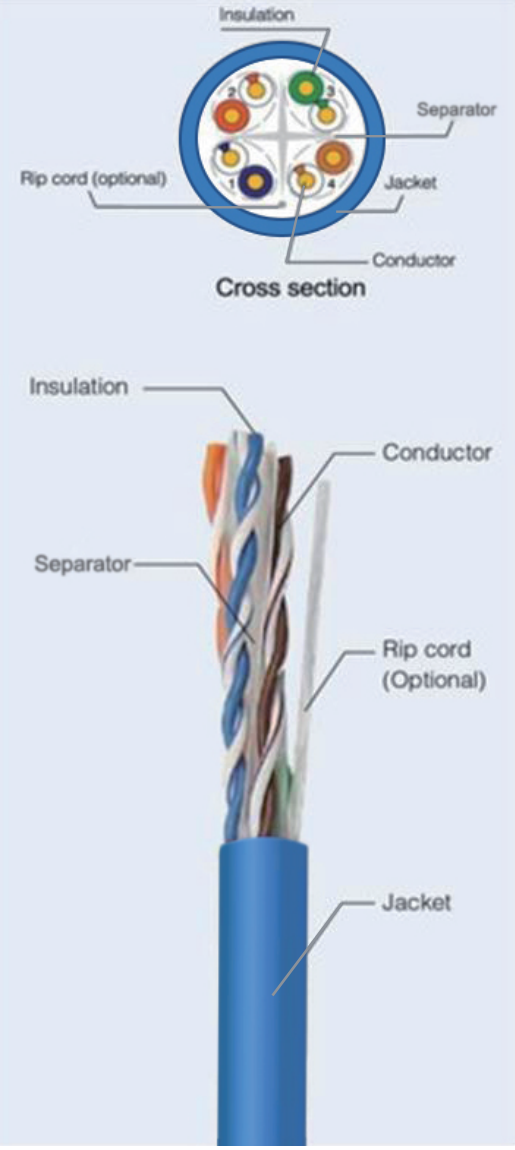
Specifications

- Rated temperature: 75℃
- Reference standard: UL444, ANSI/TIA-568-C.2 ISO/IEC 11801,IEC 61156-5
- Oxygen free copper conductor
- Colour-coded PE insulation
- LSZH jacket

Application

- 100Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM
- 10 Gb Ethernet

Product figure



Physical characteristics

Structure	Construction	U/UTP
	Number of Pairs	4 Pairs
Conductor	AWG	23 AWG
	Conductor material	Solid bare copper
	Conductor dimension	0.585±0.02mm
Insulation	Insulation material	PE
	Insulation dimension	1.13 ±0.10mm
	Number colour (Stripe or pure marking)	1.White/Blue & Blue 2.White/Orange & Orange 3.White/Green& Green 4.White/Brown & Brown
Cabling	Twisting lay length	≤30mm
	Cabling lay length	≤200mm
Separator	Separator material	PE
Binder	Binder material	PET
Shield	Individual shield & material	N/A
	Primary overall shield & material	N/A
	Secondary overall shield & material	N/A
	Shield coverage approx	N/A
	Drain wire	N/A
Outer jacket	Jacket material	LSZH
	Jacket thickness nominal	0.50mm
	Overall nominal dimension	7.40 ±0.30 mm
	Jacket rip cord	None
Mechanical characteristics	Operating temperature range	-20 ℃ ~ +75 ℃
	Bulk cable weight approx	50.0 kg/km
	Max. recommended pulling tension	110 N
	Min. bend radius (install)	8 x O.D.
	Outer jacket tensile strength	≧9.0MPa
	Outer jacket elongation	≧100%
	Outer jacket aging condition	100 ℃ x 168 hrs
	After aging,tensile strength	≧70% of Unaging
	After aging,elongation	≧50% of Unaging
	Cold bend	No Crack (@ -20℃ x 4hrs)
Electrical Characteristics	Nom. mutual capacitance	≦5.6 nF/100m (@1kHz)
	Pair to ground capacitance unbalance	≦330 pF/100m
	Nominal velocity of propagation	66%
	Max. delay skew	45 ns/100m
	Max. conductor DC resistance	9.5 Ω/100m (@ 20℃)
	Max. conductor resistance unbalance	5% (@ 20℃) within a pair
	Min. insulation resistance	5000 MΩ.km
	Max. operating voltage - UL	300 V
	Dielectric strength	2,5 kV d.c. for 2 s
	(Conductor/conductor,	Or 1,0 kV d.c. for 1 min
	conductor/screen)	

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Electrical Characteristics

Frequency	Character impedance upper limit	Character impedance lower limit	RL	ATT	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PD			
(MHz)	(Ω)	(Ω)	(dB Min)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)			
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4	115.2	86.8	23.0	3.80	66.3	63.3	56.0	53.0	552.0			
8	112.6	88.8	24.5	5.31	61.8	58.8	49.9	46.9	546.7			
10	11.9	89.4	25.0	5.93	60.3	57.3	48.0	45.0	545.4			
16	111.9	89.4	25.0	7.49	57.2	54.2	43.9	40.9	543.0			
20	111.9	89.4	25.0	8.38	55.8	52.8	42.0	39.0	542.0			
25	112.9	88.5	24.3	9.38	54.3	51.3	40.0	37.0	541.2			
31.25	114.1	87.7	23.6	10.50	52.9	49.9	38.1	35.1	540.4			
62.5	118.3	84.5	21.5	14.99	48.4	45.4	32.1	29.1	538.6			
100	121.9	82.0	20.1	19.14	45.3	42.3	28.0	25.0	537.6			
150	125.7	79.6	18.9	23.68	42.7	39.7	24.5	21.5	536.9			
200	128.8	77.6	18.0	27.58	40.8	37.8	22.0	19.0	536.5			
250	131.5	76.0	17.3	31.07	39.3	36.3	20.0	17.0	536.3			
300	131.6	76.0	17.3	34.27	38.1	35.1	18.5	15.5	536.1			
350	131.6	76.0	17.3	37.25	37.1	34.1	17.1	14.1	535.9			
400	131.6	76.0	17.3	40.05	36.3	33.3	16.0	13.0	535.8			
500	131.6	76.0	17.3	45.26	34.8	31.8	14.0	11.0	535.6			

CONFIGURATION

PART NUMBER	DESCRIPTION
DCWC6AUL305BL	SharkRack Cat6A Solid LAN Cable LSZH 305m Drum Blue

Remark : Cable that meet the requirements of the template are not required to be measured for return loss; alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance.

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