

CAT6A 4P 23AWG F/UTP SHIELDED LSZH LAN CABLE

P/N: DCWC6ASL305GR

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 CAT6A connections over extended distances, ensuring that your network remains fast and efficient even in demanding environments. F/UTP Shielding provides extra protection against Frequency interference.

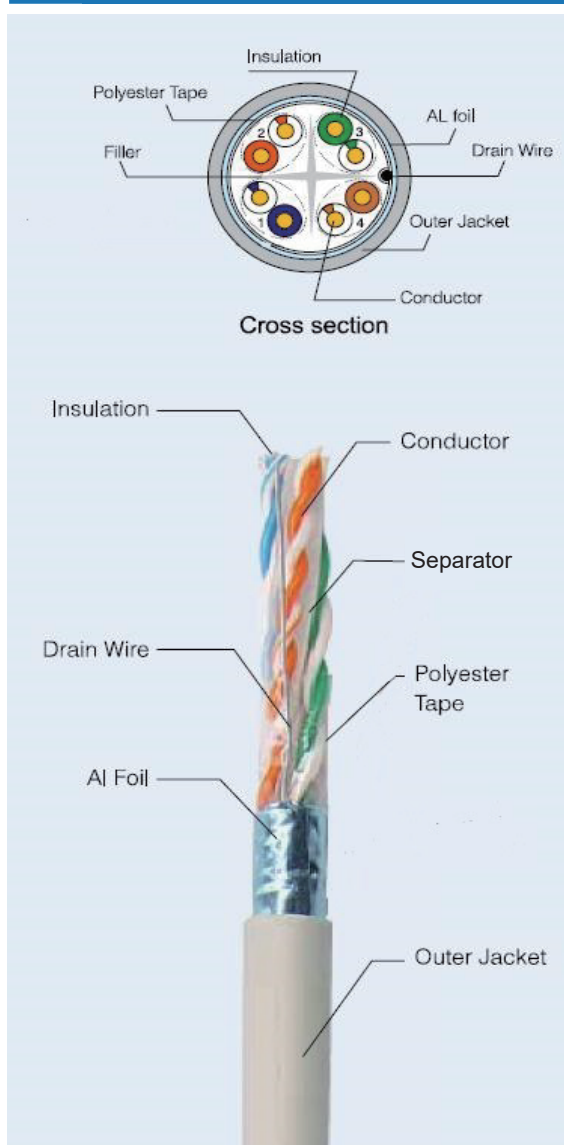
Specifications

- Rated temperature: 75 °C
- 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	F/UTP	
	Number of Pairs	4 Pairs	
Conductor	AWG	23 AWG	
	Conductor material	Solid bare copper	
	Conductor dimension	0.575±0.005mm	
Insulation	Insulation material	HDPE	
	Insulation dimension	1.15±0.05mm	
	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	AL-foil(AL face in)	
	Secondary overall shield & material	N/A	
	Shield coverage approx	N/A	
	Drain wire	Solid tinned copper wire	
Outer jacket	Jacket material	LSZH	
	Jacket thickness nominal	0.50mm	
	Overall nominal dimension	7.40 ±0.30 mm	
	Jacket colour	Grey	
Mechanical characteristics	Operating temperature range	-20 °C ~ +75 °C	
	Bulk cable weight approx	56.0kg/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 °C x 168 hrs	
	After aging,tensile strength	≥ 70% of Unaging	
	After aging,elongation	≥ 50% of Unaging	
	Cold bend	No Crack (@ -20 °C x 4hrs)	
	Electrical Characteristics	Nom. mutual capacitance	≤ 5.6 nF/100m (@1kHz)
		Pair to ground capacitance unbalance	≤ 330 pF/100m
		Nominal velocity of propagation	69%
Max. delay skew		45 ns/100m	
Max. conductor DC resistance		9.5 Ω/100m (@ 20 °C)	
Max. conductor resistance unbalance		5% (@ 20 °C)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, conductor/screen)		Or 1,0 kV d.c. for 1 min	



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Cable Jacket Marking

PER CUSTOMER REQUEST	
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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	3.8	65.3	63.3	55.8	52.8	552.0			
8	112.6	88.8	24.5	5.3	60.8	58.8	49.7	46.7	546.7			
10	111.9	89.4	25.0	5.9	59.3	57.3	47.8	44.8	545.4			
16	111.9	89.4	25.0	7.5	56.2	54.2	43.7	40.7	543.0			
20	111.9	89.4	25.0	8.4	54.8	52.8	41.8	38.8	542.0			
25	112.9	88.5	24.3	9.4	53.3	51.3	39.8	36.8	541.2			
31.25	114.1	87.7	23.6	10.5	51.9	49.9	37.9	34.9	540.4			
62.5	118.3	84.5	21.5	15.0	47.4	45.4	31.9	28.9	538.6			
100	121.9	82.0	20.1	19.1	44.3	42.3	27.8	24.8	537.6			
150	125.7	79.6	18.9	23.7	41.7	39.7	24.3	21.3	536.9			
200	128.8	77.6	18.0	27.6	39.8	37.8	21.8	18.8	536.5			
250	131.5	76.0	17.3	31.1	38.3	36.3	19.8	16.8	536.3			
300	131.6	76.0	16.8	34.3	37.1	35.1	18.3	15.3	536.1			
350	131.6	76.0	16.3	37.2	36.1	34.1	16.9	13.9	535.9			
400	131.6	76.0	15.9	40.1	35.3	33.3	15.8	12.8	535.8			
500	131.6	76.0	15.2	45.3	33.8	31.8	13.8	10.8	535.6			

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.

