DEVLINE™

CAT.6A 4P 23AWG U/UTP LSZH LAN CABLE

P/N: DCW-C6AU-P04L-L305-CXX-W Rev.:V1.0

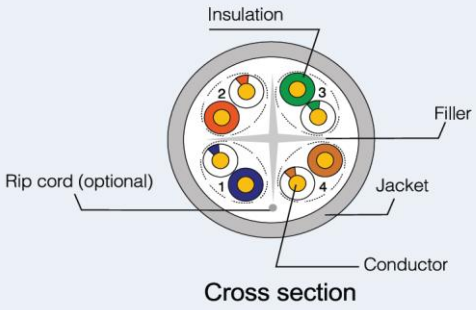
Description

- Rated temperature: 75℃
- Reference standard: UL444, ANSI/TIA-568-C.2 ISO/IEC 11801 Class Ea,IEC 61156-5
- Product standard certification:
- Flame test:
- Oxygen free copper conductor
- Colour-coded PE insulation
- LSZH jacket
- Packaging: Per customer request

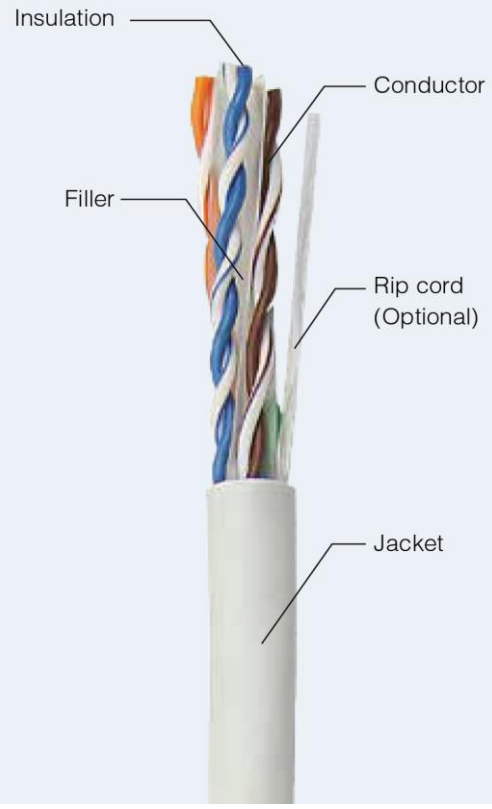
Application

- 100Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM
- 10 Gb Ethernet,2500/5000 Multiglgabit Ethernet
- Meets the performance requirements of IEEE 802.3an

Product figure



Cross section



Physical characteristics

Structure	Construction	U/UTP
	Number of Pairs	4 Pairs
Conductor	AWG	23 AWG
	Conductor material	Solid bare copper
	Conductor dimension	0.58Ñ0.02 mm
Insulation	Insulation material	PE
	Insulation dimension	1.06Ñ0.06mm
	Number colour	1.White/Blue & Blue
	(Stripe or pure marking)	2.White/Orange & Orange
		3.White/Green& Green
		4.White/Brown & Brown
Cabling	Twisting lay length	≤30mm
	Cabling lay length	≤200mm
Filler	Filler material	PE
Binder	Binder material	N/A
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	6.40 Ñ0.30 mm
	Jacket color	Per customer request
	Jacket rip cord	None
Mechanical characteristics	Operating temperature range	-20 ℃ ~ +75 ℃
	Bulk cable weight approx	47.0 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 (static)	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 q/100m (@ 20 ℃)
	Max. conductor resistance unbalance	5% (@ 20 ℃) within a pair
	Min. insulation resistance	5000 Mq .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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Cable Jacket Marking

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

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.

Revision history:

V1.0	Initial release	2020/6/11

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