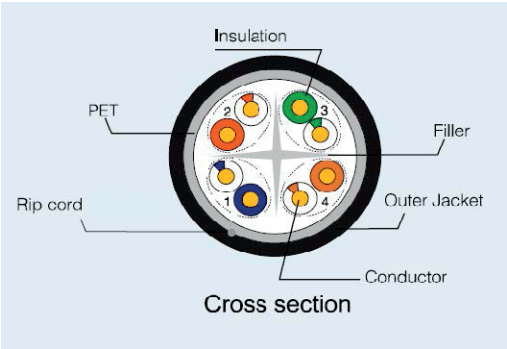
Description

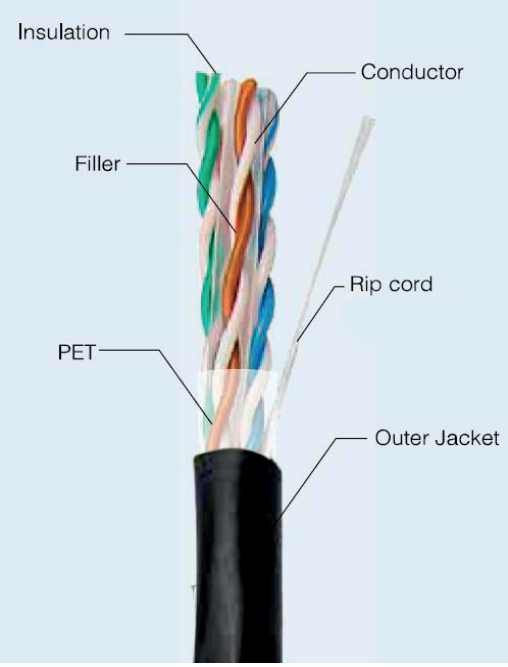
Rated temperature: 75
Reference standard: UL444, ANSI/TIA-568-C.2
ISO/IEC 11801,IEC 61156-5
Product standard certification:
Flame test:N/A
Oxygen free copper conductor
Colour-coded PE insulation
PE(UV resistant) jacket
Packaging: Per customer request

Application

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

Product figure





Physical characteristics

Structure	Construction	U/UTP
	Number of Pairs	4 Pairs
Conductor	AWG	23 AWG
	Conductor material	Solid bare copper
	Conductor dimension	0.56±0.005mm
Insulation	Insulation material	HDPE
	Insulation dimension	1.01 ±0.05mm
	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	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	PE (UV resistant)
	Jacket thickness nominal	0.55±0.05mm
	Overall nominal dimension	6.20 ±0.30 mm
	Jacket rip cord	YES
Mechanical characteristics	Operating temperature range	-20 ~ +75
	Bulk cable weight approx	33.0 kg/km
	Max. recommended pulling tension	110 N
	Min. bend radius (install)	4 x O.D.
	Outer jacket tensile strength	9.7MPa
	Outer jacket elongation	350%
	Outer jacket aging condition	100 x 48 hrs
	After aging,tensile strength	75% of Unaging
	After aging,elongation	75% of Unaging
	Cold bend	No Crack (@ -20 x 4hrs)
Electrical Characteristics	Nom. mutual capacitance	5.6 nF/100m (@1kHz)
	Pair to ground capacitance unbalance	160 pF/100m
	Nominal velocity of propagation	65%
	Max. delay skew	45 ns/100m
	Max. conductor DC resistance	8.0 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
	Fire class (PR)	Fca

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Germany

Cable Jacket Marking

OUTDOOR CAT6 4x2x AWG 23/1 U/UTP PE (OUTDOOR) LAN CABLE UNSHIELDED 250 MHZ ## supplier No.

Note:
1>marking: Ink jet printer; High: 3.00±0.30mm;
2>The jacket shall be used black jet print marking except white color on blackjacket .
3> marking interval is 1m

Electrical Characteristics

Frequency	Character impedance upper limit	Character impedance lower limit	RL	ATT	NEXT	PS NEXT	ACRF	PS ACRF	PD			
(MHz)	(Ω)	(Ω)	(dB Min)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)			
1	122.2	81.8	20.0	2.03	74.3	72.3	67.8	64.8	570.0			
4	115.2	86.8	23.0	3.73	65.3	63.3	55.8	52.8	552.0			
8	112.6	88.8	24.5	5.27	60.8	58.8	49.7	46.7	546.7			
10	11.9	89.4	25.0	5.91	59.3	57.3	47.8	44.8	545.4			
16	111.9	89.4	25.0	7.52	56.2	54.2	43.7	40.7	543.0			
20	111.9	89.4	25.0	8.44	54.8	52.8	41.8	38.8	542.0			
25	112.9	88.5	24.3	9.47	53.3	51.3	39.8	36.8	541.2			
31.25	114.1	87.7	23.6	10.64	51.9	49.9	37.9	34.9	540.4			
62.5	118.3	84.5	21.5	15.36	47.4	45.4	31.9	28.9	538.6			
100	121.9	82.0	20.1	19.78	44.3	42.3	27.8	24.8	537.6			
150	125.7	79.6	18.9	24.69	41.7	39.7	24.3	21.3	536.9			
200	128.8	77.6	18.0	28.97	39.8	37.8	21.8	18.8	536.5			
250	131.5	76.0	17.3	32.84	38.3	36.3	19.8	16.8	536.3			

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	2020/8/31
V1.1	Added rip cord	2021/9/03

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