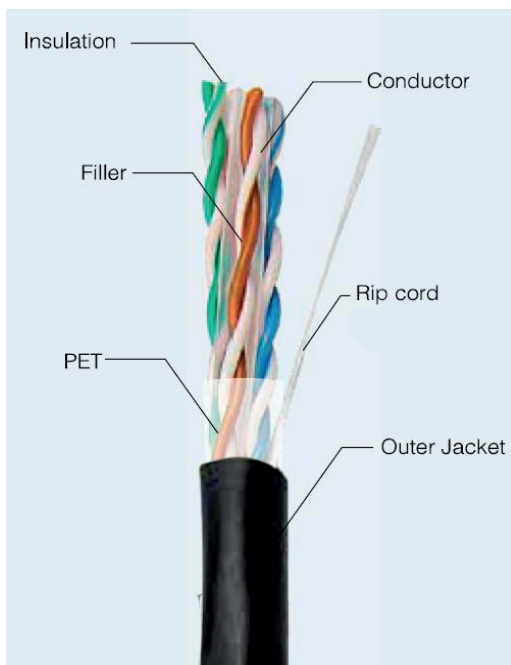
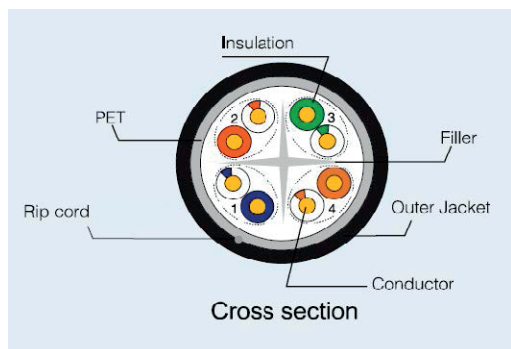


**Description**

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**

<b>Structure</b>	Construction	U/UTP
	Number of Pairs	4 Pairs
<b>Conductor</b>	AWG	23 AWG
	Conductor material	Solid bare copper
	Conductor dimension	0.56±0.005mm
<b>Insulation</b>	Insulation material	HDPE
	Insulation dimension	1.01 ±0.05mm
	Number colour (Stripe or pure marking)	1.White/Blue & Blue 2.White/Orange & Orange 3.White/Green& Green 4.White/Brown & Brown
<b>Cabling</b>	Twisting lay length	30mm
	Cabling lay length	200mm
<b>Filler</b>	Filler material	PE
<b>Binder</b>	Binder material	PET
<b>Shield</b>	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
<b>Outer jacket</b>	Jacket material	PE (UV resistant)
	Jacket thickness nominal	0.55±0.05mm
	Overall nominal dimension	6.20 ±0.30 mm
	Jacket rip cord	YES
<b>Mechanical characteristics</b>	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)
	<b>Electrical Characteristics</b>	Nom. mutual capacitance
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

**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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