

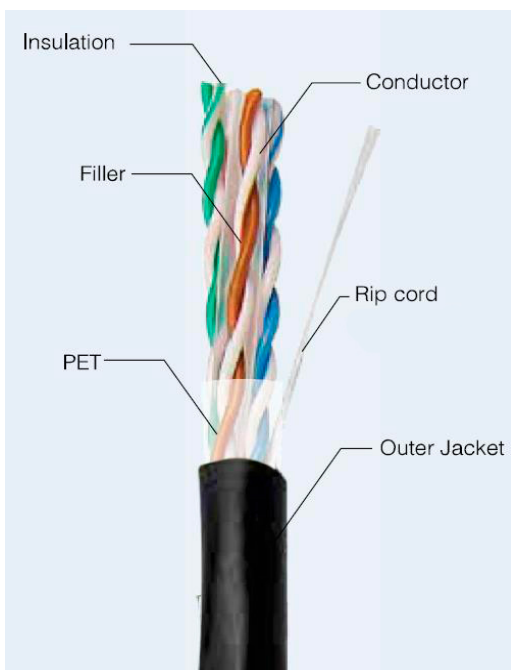
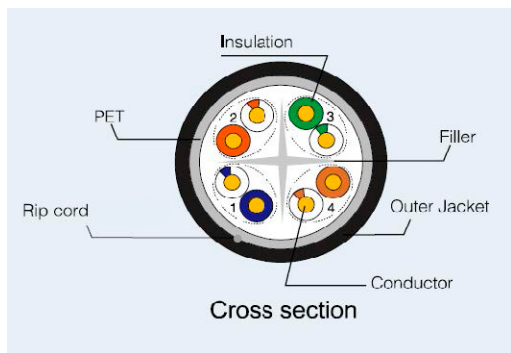
Description

- Rated temperature: 75°C
- 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 (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	
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 °C ~ +75 °C	
	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 °C x 48 hrs	
	After aging, tensile strength	≥ 75% of Unaging	
	After aging, elongation	≥ 75% 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	≅ 160 pF/100m
		Nominal velocity of propagation	65%
Max. delay skew		45 ns/100m	
Max. conductor DC resistance		8.0 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		Or 1,0 kV d.c. for 1 min	

Cable Jacket Marking

--	--

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

