Item: 77624 - LAN CAT 6 / 6(A) OUTDOOR SOLID S/FTP CU PIMF

Rev.:V1.3

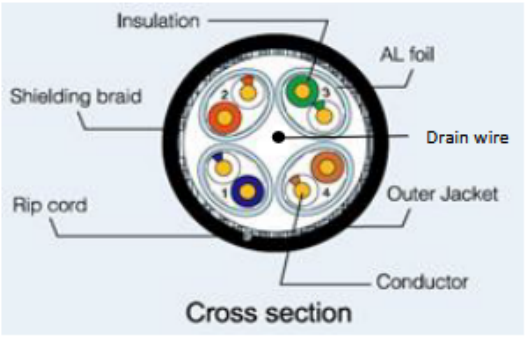
Description

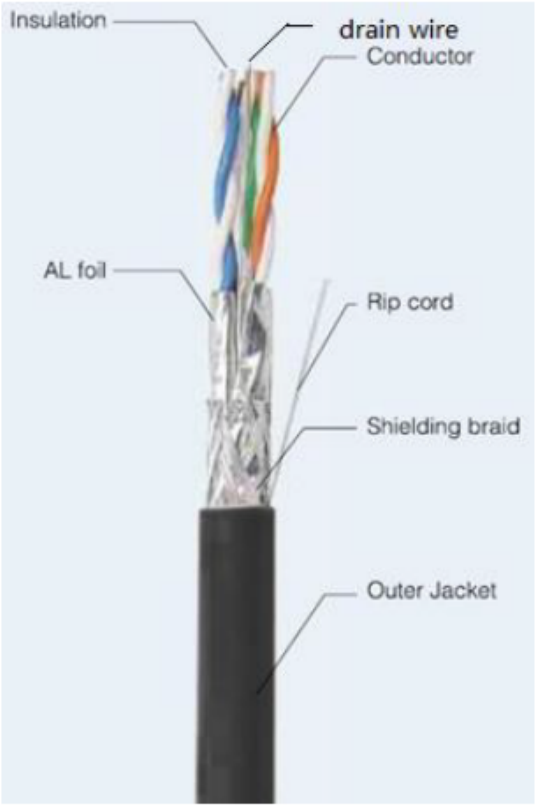
- Rated temperature: 75℃
- Reference standard: UL444, ANSI/TIA-568-C.2 ISO/IEC 11801,IEC 61156-5
- Product standard certification:
- Flame test:N/A
- Oxygen free copper conductor
- Colour-coded PE insulation
- PE(UV Resistant) jacket
- Packaging: Per customer request

Application

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

Product figure





Physical characteristics

Structure	Construction	S/FTP
	Number of Pairs	4 Pairs
Conductor	AWG	23 AWG
	Conductor material	Solid bare copper
	Conductor dimension	0.565±0.005mm
Insulation	Insulation material	Foam PE
	Insulation dimension	1.33±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	N/A
Binder	Binder material	N/A
Shield	Individual shield & material	AL-Foil
	Primary overall shield & material	AL-MG alloy wire braid
	Structure shield	16/4/0.12
	Shield coverage approx	35%
	Drain wire	0.40mm Tinned copper wire
Outer jacket	Jacket material	PE(UV Resistant)
	Jacket thickness nominal	0.60mm
	Overall nominal dimension	7.60 ±0.20 mm
	Jacket color	Per customer request
	Jacket rip cord	YES
Mechanical characteristics	Operating temperature range	-20 ℃ ~ +75 ℃
	Bulk cable weight approx	42.0 kg/km
	Max. recommended pulling tension	110 N
	Min. bend radius (install)	8 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 (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	61%
	Max. delay skew	45 ns/100m
	Max. conductor DC resistance	9.38 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
	conductor/screen)	

Cable Jacket Marking

OUTDOOR CAT6 (A) 4x2x AWG 23/1 S/FTP PE (OUTDOOR) LAN CABLE SHIELDED 500 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 black jacket 3> marking interval is 1m;

Electrical Characteristics(Fluke TIA Cat 6a Perm. Link 90M test)

Frequency	Character impedance upper limit	Character impedance lower limit	RL	ATT	NEXT	PS NEXT	ACRF	PS ACRF	PD
(MHz)	(Ω)	(Ω)	(dB Min)	(dB/90m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/90m Max)
1	122.2	81.8	19.1	3.0	65.0	62.0	64.2	61.2	
4	115.2	86.8	21.0	3.5	64.1	61.8	52.1	49.1	
8	112.6	88.8	21.0	5.0	59.4	57.0	46.1	43.1	
10	11.9	89.4	21.0	5.5	57.8	55.5	44.2	41.2	498
16	111.9	89.4	20.0	7.0	54.6	52.2	40.1	37.1	
20	111.9	89.4	19.5	7.8	53.1	50.7	38.2	35.2	
25	112.9	88.5	19.0	8.8	51.5	49.1	36.2	33.2	
31.25	114.1	87.7	18.5	9.8	50.0	47.5	34.3	31.3	
62.5	118.3	84.5	16.0	14.0	45.1	42.7	28.3	25.3	
100	121.9	82.0	14.0	18.0	41.8	39.3	24.2	21.2	
200	128.8	77.6	11.0	26.1	36.9	34.3	18.2	15.2	
250	131.5	76.0	10.0	29.5	35.3	32.7	16.2	13.2	
350	131.6	76.0	8.6	35.6	31.8	29.1	13.3	10.3	
450	131.5	76.0	8.0	41.1	28.2	25.3	11.1	8.1	
500	131.6	76.0	8.0	43.80	26.7	23.8	10.2	7.2	

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	2021/9/07