



PACIFIC ELECTRIC WIRE & CABLE CO., LTD.

26F, NO. 95, SEC. 2, DUNHUA S RD, TAIPEI CITY 106, TAIWAN, R.O.C

1. Standard : ANSI/TIA-568-C.2 AND ISO 11801

2. Application : LAN Cable Are Suitable for perfect AUDIO DATA and VIDEO of transfer for Local Area Network

3. Construction & Dimension :

Item		Specification
Conductor	Size	23 AWG X 4P
	Material	Annealed Bare Copper
	Construction	1 / 0.6 ± 0.01 mm
Insulation	Material	HDPE
	Minimum Average Thickness	0.19 mm
	Minimum Thickness at any point	0.18 mm
	Diameter	1.03 ± 0.05 mm
	Identification	1. Blue×White / Blue 2. Orange×White / Orange 3. Green×White / Green 4. Brown×White / Brown
Core Assembly	Core Twist	2 core twist
	slot	PE
	Assembly Pair	4 pair assembly
Drain	N.A	N.A
	N.A	N.A
	N.A	N.A
Jacket	Material	PVC
	Average Thickness	1.0 mm
	Minimum Thickness at any point	0.6 mm
	Overall Diameter(Approx.)	8.3 ± 0.3 mm
	Color	GRAY OR OTHER COLOR



4. Electrical & Physical Properties :			
Item		Specification	
Rating Temp		75°C	
Conductor Resistance		9.38 Ω/100m 20°C Max.	
Mutual Capacitance		5.6 nF/m Max.	
DC Resistance Unbalance :		4 % Max.	
Pair-to-Ground Capacitance Unbalance :		330 pF/100m Max.	
Dielectric Strength		AC 1.5kv / 2sec	
Spark Test		2.5 KV	
Cold Bend Test		-20°C ± 4hrs No Crack.	
Insulation	Unaged	Tensile Strength	2400 PSI Min. (1.68kg/mm ²)
		Elongation	300% Min.
	Aged	Tensile Strength	Min. 75% (100°C ± 48 hrs)
		Elongation	Min. 75% (100°C ± 48 hrs)
Jacket	Unaged	Tensile Strength	2000 PSI Min. (1.41kg/mm ²)
		Elongation	100% Min.
	Aged	Tensile Strength	Min. 85% (100°C ± 240 hrs)
		Elongation	Min. 50% (100°C ± 240 hrs)
Installation temperature		0°C to 60°C	
Operating temperature		-20°C to 60°C	
Minimum bending radius		≥ 4 times of overall diameter	
Maximum pulling tension		≤ 110 N	

Electrical Performance								
Item	R.L.	Att.	NEXT	PRO. Delay	PSNEXT	ACRF	PSACRF	Delay Skew
Frequency	MIN.	MIN.	MIN.	MIN.	MIN.	MIN.	MIN.	MAX.
	(dB/100m)	(dB)	(dB)	(dB)	(dB)	(dB/100m)	(dB/100m)	(ns/100m)
1.0	20.0		74.3	570.0	72.3	67.8	64.8	45
4.0	23.0	3.8	65.3	552.0	63.3	55.8	52.8	
8.0	24.5	5.3	60.8	546.7	58.8	49.7	46.7	
10.0	25.0	5.9	59.3	545.4	57.3	47.8	44.8	
16.0	25.0	7.5	56.2	543.0	54.2	43.7	40.7	
20.0	25.0	8.4	54.8	542.0	52.8	41.8	38.8	
25.0	24.3	9.4	53.3	541.2	51.3	39.8	36.8	
31.25	23.6	10.5	51.9	540.4	49.9	37.9	34.9	
62.5	21.5	15.0	47.4	538.5	45.4	31.9	28.9	
100.0	20.1	19.1	44.3	537.6	42.3	27.8	24.8	
200	18.0	27.5	39.8	536.5	37.8	21.8	18.8	
250	17.3	31.1	38.3	536.3	36.3	19.8	16.8	
300	16.7	34.2	37.1	536.1	35.1	18.3	15.3	
400	15.9	40.0	35.3	535.8	33.3	15.8	12.8	
500	15.2	45.2	33.8	535.6	31.8	13.8	10.8	

IMP. 100+-15 (4-99MHz) / 100+-22 (100-200MHz) / 100+-30 (200-500MHz)

