

		SPECIFICATION	
Structure		Structure A	
Conductors	Structure AWG	AWG	23#(1/23)
	Material	--	Bare Copper
	O.D.	mm	0.6 Ref
Insulators	Material	--	FEP
	Diameter	mm	1.02 + 0.03
	Average Thickness	mm	0.21 Ref
	Color	--	As Color Code
Twist	Direction	--	Right (S)
	Diameter	mm	2.04 Ref
Layer	Direction		Right (S)
	Pitch	mm	120 Ref
	Diameter	mm	4.3 Ref
Jacket	Material	--	PVC (CMP)
	Diameter	mm	6.0 + 0.19
	Average Thickness	mm	0.85 Ref
	Extrusion	--	Semi substantiate
	Externals	--	Plane
	Color	--	MP03
Inking	Color	--	WHITE
	Inking No:	DFZC	E129760 (UL) TYPE CMP 75° C 4UTP 23AWG SOLID FT6 ETL VERIFIED TIA/EIA 568B.2 CAT-6 550MHZ RoHS
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1275 Danner Drive Aurora, Ohio 44202
 Tel: 1-800-626-7801 Fax: 330-562-1999
 www.vpi.us sales@vpi.us

SPECIFICATION

Electrical Characteristics

1. Voltage rating: -
2. Temperature rating: 75° C
3. Spark test: AC-2000V / 0.15 sec MIN.
4. Dielectric strength: AC-750V/1sec MIN>
5. Insulation resistance:FEB:DC-500V 1500 MΩ /100M MIN. at 20°C

Transmission Characters :

1. Capacitance:
 1. 1. Mutual capacitance:5.6nF/100M, MAX
 1. 2. Pair to ground Unbalance: 330pF/100M, MAX
2. D-C Resistance: 9.4 ohm / 100M at 20° C MAX.
3. D-C Resistance Unbalance: 5%, MAX
4. Impedance: 100 ± 22 Ω at 100-350MHZ, 100 ± 32 Ω, at 350-550MHZ 20°C

Frequency(MHZ)	1	4	8	10	16	20	31.25	62.5	100	155	200	250	300	400	500	550
Attenuation.(dB/100 m)	2	3.8	5.3	5.9	7.5	8.4	10.5	15.1	19.4	24.6	28.3	32.0	35.4	41.6	47.3	49.9
NEXT(dB)	79.3	7.03	65.8	64.3	61.3	59.8	56.9	52.4	49.3	46.5	44.8	43.3	42.2	40.3	38.8	38.2
ACR(dB)	77.3	66.5	60.5	58.4	53.8	51.4	46.4	37.2	29.9	21.9	16.5	11.4	6.8	0.0	N/A	N/A
PS.NEXT(dB)	77.3	68.3	63.8	62.3	59.3	57.8	54.9	50.4	47.3	44.5	42.8	41.3	40.2	38.3	36.8	36.2
PS.ACR(dB)	75.3	64.5	58.5	56.4	51.8	49.4	44.4	35.2	27.9	19.9	14.5	9.4	4.8	0	N/A	N/A
ELFEXT(dB/100 m)	69.8	57.7	51.7	49.8	45.7	43.8	39.9	33.9	29.8	26.0	23.8	21.8	20.3	17.8	15.8	15.0
PS.ELFEXT(dB/100m)	66.8	54.7	48.7	46.8	42.7	40.8	36.9	30.8	26.8	23.0	20.8	18.8	17.3	14.8	12.8	12.0
Return Loss(dB)	20.0	23.0	24.5	25.0	25.0	25.0	25.0	21.5	20.1	18.8	18.0	17.3	16.8	15.9	15.2	14.9

Physical Characters

1. Flame test of cable:
 - 1.1 UL Fire listing of CMP, FT6
2. Tensile Strength test (before aging):
 - 2.1 Sheath: >1.4kg/mm2
3. Tensile strength test are after aging:
 - 3.1 Sheath: >85%
4. Elongation before aging:
 - 4.1 Sheath: >100%
5. Elongation after aging:
 - 5.1 Sheath: >50%
6. Requirements for green environment protection: Accord with RoHS



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