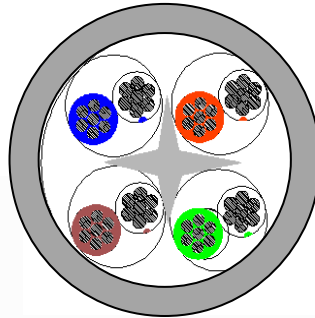




PRODUCT DATA SHEET		PDS-3801401	
U/ UTP CAT. 6 4x2x24AWG/7,FLEXIBLE LSHF,		Ver.A	Date of Issue: 22.08.2014



Drawing for illustration only and does not represent the detailed image of the respective product.

1. Reference Standard

In accordance to ANSI/TIA-568-C.2,

2. Cable Construction

- 2.1. Conductor type : Strands bare copper , 24AWG/(7x0.20mm)
- 2.2. Core Insulation : Polyethylene
- 2.3. Inner Core diameter : 0.98 ± 0.05mm,
- 2.4. Core Identification : Pair 1 Blue + White/Blue
Pair 2 Orange + White/Orange
Pair 3 Green + White/Green
Pair 4 Brown + White/Brown
- 2.5. Separator : PE
- 2.6. Rip cord : yes
- 2.7. Outer Sheath Thickness : 0.55mm approx
- 2.8. Overall Cable Diameter : 6.20±0.5 mm
- 2.9. Outer Sheath Colour : LSHF compound , Grey RAL 7032

3. Technical Data

- 3.1. DC resistance : ≤94ohm/km
- 3.2. DC resistance unbalance : ≤ 5%
- 3.3. Dielectric test : 2.5kVDC/ 2 sec.
- 3.4. Attenuation : See Table 1
- 3.5. Return Loss : See Table 1
- 3.6. N.E.X.T. : See Table 1
- 3.7. PSN.E.X.T. : See Table 1
- 3.8. ELFEXT (ACR-F) : See Table 1
- 3.9. PS ELFEX (PS ACR-F) : See Table 1
- 3.10. Propagation delay : See Table 1
- 3.11. Characteristics Impedance : 100Ω ±-20%
- 3.12. Mutual Capacitance, : ≤5.6nF/100m
- 3.13. Capacitance unbalance @1Khz : ≤1600pF/km
- 3.14. Delay Skew : ≤45ns/100m

Elaborated by: GK	Document: PDS	Page 1 of 2
Approved by: C Chong	Supersedes version : Dated :	



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- 3.15. Velocity of Propagation : 66% approx ,
- 3.16. Cold bend radius : No crack, -20°C x 4hours
- 3.17. Tensile strength : ≥10.0Mpa before aging, ≥8.0Mpa after aging
- 3.18. Elongation : ≥125% before aging, ≥100% after aging
- 3.19. Min. Bending Radius : 10x cable OD
- 3.20. Operating Temperature : -20°C to + 70°C
- 3.21. Halogen free : IEC 60754-1/2
- 3.22. Low toxic density : IEC 61034
- 3.23. Flame Retardant : IEC60332-1-2
- 3.24. RoHS : 2011/65/EU

Table 1 (All measurement are based on 100 meter at 20°C)

Freq	Attenuation	Return Loss,	NEXT	PS NEXT	ELFEXT (ACR-F)	PS ELFEXT (PS ACR-F)	Max Propagation Delay
MHz	Max [dB]	Min.[dB],	Min [dB]	Min [dB]	Min. [dB]	Min [dB]	[ns]
1	2.4	20	74.3	72.3	67.8	64.8	570
8	6.4	24.5	60.8	58.8	49.7	46.7	547
16	9.1	25.	56.2	54.2	43.7	40.7	543
20	10.2	25	54.8	52.8	41.8	38.8	542
25	11.4	24.2	53.3	51.3	39.8	36.8	541
62.5	18.5	20.7	47.4	45.4	31.9	28.9	538
100	23.8	19	44.3	42.3	27.8	24.8	537
200	34.8	16.4	39.8	37.8	21.8	18.8	536
250	39.4	15.6	38.3	36.3	19.8	16.8	536

4. Dimensional Data

Part No.	No. of pairs and conductor size	Inner core diameter, approx	Outer Diameter, approx	Max. conductor resistance DC @ 20°C	Approx. cable weight.
	AWG/7	mm	mm	Ω/km	kg/km
3801401	4x2x24AWG	0.98	6.20	94.0	37.2

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