



REF : U/UTP - category 5 - 16 Pair Unshielded – PE Sheath

<p>Product Description: Bare solid copper conductor Rohs/REACH complied PEJacket Installation temperature: -30°C~+50°C</p>	<p>Application: Ethernet 10 Base-T 100 Base-T4 ATM TP-PMD Seppch TELEPHONE Multimedia Trunk Kiring</p>
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Content of the Data Sheet

Category	U/UTP CAT5-16P-PE						
Test Standard	ISO/IEC11801, TIA-568.C.2 , YD/T1019						
1. Conductor	Material	SOLID-Bare Copper					
	Nom. O.D. (mm)	0.50	<table border="1" style="width: 100%;"> <tr> <td>Up</td> <td>+0.005mm</td> </tr> <tr> <td>Down</td> <td>-0.005mm</td> </tr> </table>		Up	+0.005mm	Down
Up	+0.005mm						
Down	-0.005mm						
2. Insulation	Material	HDPE					
	Diameter	0.90±0.02mm					
Color	A.Blue, White-Blue		B.Orange,White-Orange				
	C.Green,White-Green		D.Brown, White-Brown				
3.Rip-cord	Yes	Drain wire	No				
4. Shielded	Polyester						
5. Sheath	Thickness	1.0±0.2 mm					
	External O.D.	10.5±0.4 mm					
	Surface	Clean, Frap, Satiation					
	Material	PE					
	Color	Black					
Surface Printing	Letter height	3.0±0.3mm					
	Color	White					
	Print error & Space	≤±0.5%, 1m					
Packing	Drum in Carton						
Packing length	305±1.5m / 500±2.5m						

Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0
		Elongation (%)	≥350
	Aging Period (°C×hrs)	100°C×24h×10d	
	After Aging	Elongation (%)	≥300
Electrical Characteristics (20°C)	Cold bend (-20±2°C×4h) 15times cable O.D. No visible cracks		
	1.0-100.0MHz	Impedance(Ω)	100±15
	Delay Shew (ns/100m)		≤45
	NVP		69%
	Capacitance(nF/100m) max:		6.6
	DC Resistance(Ω/100m) max		9.5
	DC Conductor Resistance Unbalance(%) max5.0		

Note: Structure: a. be tied up with White/Blue identification tape, b. be tied up with White/Orange identification tape, c. be tied up with White/Green identification tape, d. be tied up with White/Brown identification tape, Acceptance criterion: Per 4Pair pass FLUKE test instrument.

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Electrical Performance (100m):

Frequency (MHz)	RL \geq dB	ATT \leq dB	NEXT \geq dB	PHASE DELAY \leq ns	Frequency (MHz)	PSNEXT \geq dB	ELFEXT \geq dB	PSELFEXT \geq dB
1	17.0	2.0	62.3	570.00	1	62.3	61.0	61.0
4.0	18.8	4.1	53.3	552.00	4	53.3	49.0	49.0
8.0	19.7	5.8	48.8	546.73	8	48.8	42.9	42.9
10.0	20.0	6.5	47.3	545.38	10	47.3	41.0	41.0
16.0	20.0	8.2	44.2	543.00	16	44.4	36.9	36.9
20.0	20.0	9.3	42.8	542.05	20	42.8	35.0	35.0
25.0	19.3	10.4	41.3	541.20	25	41.3	33.8	33.0
31.25	18.6	11.7	39.9	540.44	31.25	39.9	31.1	31.1
62.5	16.5	17.0	35.4	538.55	62.5	35.4	25.1	25.1
100	15.1	22.0	32.3	537.60	100	32.3	21.0	21.0