

APPLICATION

The DATACOMM Category 6 U/UTP 23 AWG solid 4-pair U/UTP PVC cable meets performance standards and provides a considerable margin above all electrical transmission performance requirements. It has been tested to exceed TIA/EIA 568-B.2-1, EN 50173-1, and ISO/IEC 11801 Cat 6 standards.

The cable is rated for 250 MHz and supports Gigabit Ethernet, Power over Ethernet (PoE), and audio/visual (AV) as well as broadband video transmissions. This DATACOMMS cable has been designed and engineered to provide cost-effective, high-bandwidth transmission performance. It also features a central X-shaped polyethylene separator to maintain the geometry and performance of individual pairs, optimizing crosstalk performance.

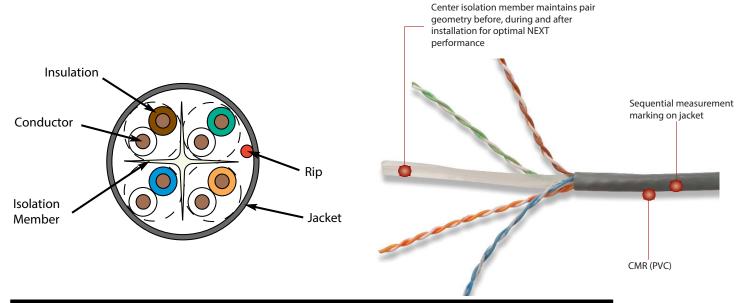
FEATURES AND BENEFITS

- Complies to Category 6 standard at 250 Mhz
- 23 AWG solid annealed solid pure copper wire
- 4 unshielded twisted pairs with no conductor screening
- Supports full Gigabit Ethernet on 90M Link & Channel

COMPLIANCE & STANDARDS

Designed, constructed and compliant to the following standards:

- ISO/IEC 11801 Class E. IEC 61156-5
- EN50173-1 and EN 50288-6-1
- ANSI/TIA 568.2-D
- Supports Gigabit Ethernet
- Recommended for PoE++
- RoHS
- 1000BASE-T / 1000BASE-TX (Gigabit Ethernet).



PRODUCT INFORMATION						
Part Number	Product Description					
DCN6-UTP-PVC	Datacomm Category 6 UTP PVC Grey cable 305M reel box					

DATACOMMS CATEGORY 6 UTP SOLID 4 PAIR CABLE

	_			Content of the Da	ta Sheet					
Sheath Printing	Datacomm Category 6 UTP PVC ANSI/TIA/EIA-568-b.2-1 and ISO/IEC 11801									
	T				White-B	lue /Blue /		White-0	Orange /Orange	
Category	U/UTP CAT6-4P-PVC			5 . \ 6						
Reference Standard	ISO/IEC11801、TIA-568-C.2					Sheath				
Conductor	Material	SOLID-	SOLID-Bare Copper			tor \		Rip	o-cord	
	Nom.O.D.(mm)	0.540	up	+0.005	White-E	Brown /Bro	wn	✓ White-G	reen /Green	
Insulation	Material	HDPE			-					
	Diameter	0.93±0).05mm							
Sheath	Thickness	0.55±0.05 mm			Technical Performance (100m):					
	External O.D.	5.6±0.4mm			Frequency		ATT (20℃)	NEXT	PHASE DELAY	
	Surface	Clean,Frap,Satiation			(MHz) 1	≥dB 20. 0	≤dB 2. 03	≥dB 74.3	≤ns 570. 00	
		•			4.0	23. 0	2. 03 3. 78	65. 3	552.00	
	Material	PVC(complies RoHS)			8. 0	24. 5	5. 32	60.8	546. 73	
	Color	TBD			10.0	25.0	5.95	59.3	545.38	
Surface Printing	Letter height	3.0±0.3mm			16.0	25.0	7.55	56. 2	543.00	
	Color	Black			20.0	25.0	8.47	54.8	542.05	
	Print error & Space	≤±0.5%, 1m			25.0	24.3	9.51	53.3	541.20	
Core Color	1 White- Blue /Blue				31. 25	23.6	10.67	51.9	540. 44	
		2 White-Orange /Orange			62. 5	21.5	15. 38	47. 7	538. 55	
	3 White-Green /Green	1 4 White- Brown /Brown		own /Brown	100 200	20. 1 18. 0	19. 80 28. 98	44. 3 39. 8	537. 60 536. 54	
Packing	Wooden Tray & Carton				250	17. 3	32. 85	38. 3	536. 27	
Carton dimension	According to the requires				Frequency	PSNEXT	ELF.		PSELFEXT	
Packing length	(305+1.5)m	(MHz)	≥dB	≥		≥dB				
	, ,	, , , , , , , , , , , , , , , , , , ,				72.3	67.	. 8	64.8	
Rip-cord	Yes	Drain w	ire	No	4	63.3	55.		52.8	
	Before Aging Tensile Strength (Mpa) ≥13.5 Elongation(%) ≥150			≥13.5	8	58.8	49.		46. 7	
				≥150	10	57.3	47.		44. 8	
Sheath Physical	Aging Period (°C×hrs) 100°C×24h×7d				16 20	54. 2 52. 8	43.		40. 7 38. 8	
Properties					25	52. 8 51. 3	39.		36. 8	
	After Aging Tensile Strength(Mpa) ≥12.5 Elongation(%) ≥125			31. 25	49.9	37.		34. 9		
				62. 5	45. 4	31.		28. 9		
	Cold bend(-20±2°C×4h) 8×Cable O.D., No visible cracks			100	42.3	27.	. 8	24.8		
Electrical	1.0-250.0MHz Impedance ((Ω) 100±15				200	37.8	21.		18.8	
					250	36.3	19.	. 8	16.8	
Characteristics	1.0-250.0MHz Delay Skew (ns/100m) ≤45				-					
(20°C)	DC Resistance (Ω/100m) max 9.5									
	DC Conductor Resistance Unbalance (%) max 5.0									