

APPLICATION

The DATACOMM Category 6 U/UTP 24 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 DATACOMM 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.

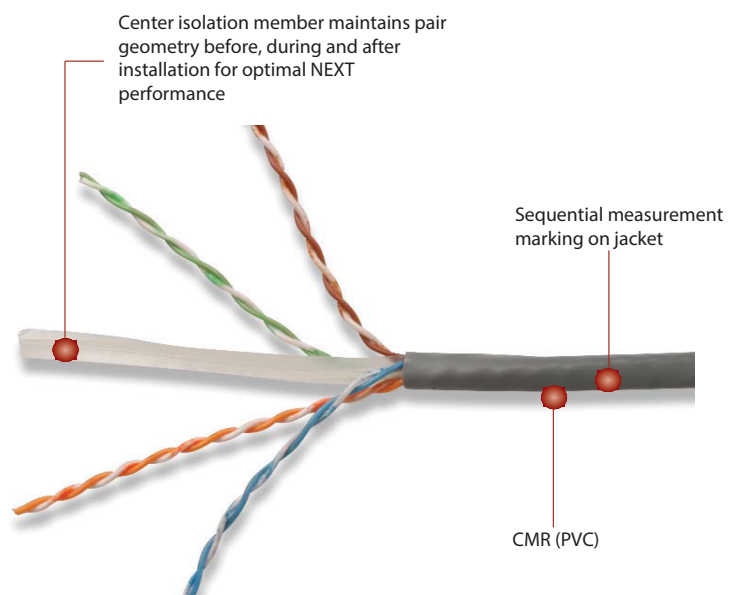
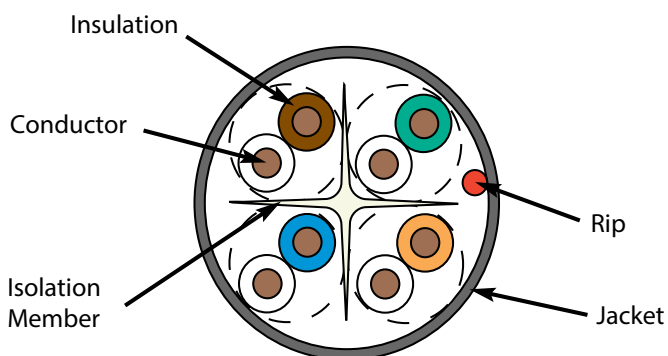
FEATURES AND BENEFITS

- Complies to Category 6 standard at 250 Mhz
- 24 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:

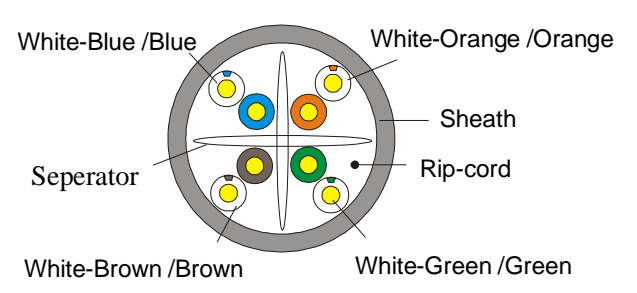
- ISO/IEC 11801 Class E, IEC 61156-5
- EN50173-1 and EN 50288-6-1
- CUL Listed
- ANSI/TIA 568.2-D
- Supports Gigabit Ethernet
- Recommended for PoE++
- RoHS
- 1000BASE-T / 1000BASE-TX (Gigabit Ethernet).



PRODUCT INFORMATION

Part Number	Product Description
DN-C6-UTP-PVC	Datacomm Category 6 UTP PVC Grey cable 305M reel box

The information provided in this document is subject to change without any prior notice.

Content of the Data Sheet																																																																					
Sheath Printing	Datacomm Category 6 UTP PVC ANSI/TIA/EIA-568-b.2-1 and ISO/IEC 11801																																																																				
Category	U/UTP CAT6-4P-PVC																																																																				
Reference Standard	ISO/IEC11801、TIA-568-C.2																																																																				
Conductor	Material	SOLID-Bare Copper																																																																			
	Nom.O.D.(mm)	0.520	up down	+0.005 -0.005																																																																	
Insulation	Material	HDPE																																																																			
	Diameter	0.93±0.05mm																																																																			
Sheath	Thickness	0.55±0.05 mm																																																																			
	External O.D.	5.6±0.4mm																																																																			
	Surface	Clean,Frap,Satiation																																																																			
	Material	PVC(complies RoHS)																																																																			
	Color	TBD																																																																			
Surface Printing	Letter height	3.0±0.3mm																																																																			
	Color	Black																																																																			
	Print error & Space	≤±0.5%, 1m																																																																			
Core Color	1 White- Blue /Blue	2 White-Orange /Orange																																																																			
	3 White-Green /Green	4 White- Brown /Brown																																																																			
Packing	Wooden Tray & Carton																																																																				
Carton dimension	According to the requires																																																																				
Packing length	(305+1.5)m																																																																				
Rip-cord	Yes	Drain wire	No																																																																		
	Before Aging Tensile Strength (Mpa)		≥13.5																																																																		
Sheath Physical Properties	Elongation(%)		≥150																																																																		
	Aging Period (°C×hrs)	100°C×24h×7d																																																																			
	After Aging Tensile Strength(Mpa)		≥12.5																																																																		
	Elongation(%)		≥125																																																																		
	Cold bend(-20±2°C×4h) 8×Cable O.D., No visible cracks																																																																				
	Electrical Characteristics (20°C)	1.0-250.0MHz Impedance ((Ω)	100±15																																																																		
1.0-250.0MHz Delay Skew (ns/100m)		≤45																																																																			
DC Resistance (Ω/100m) max		9.5																																																																			
DC Conductor Resistance Unbalance (%) max		5.0																																																																			
																																																																					
Technical Performance (100m):																																																																					
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Acceptance criterion:According to FLUKE Permanent link test<90m, pass																																																																					