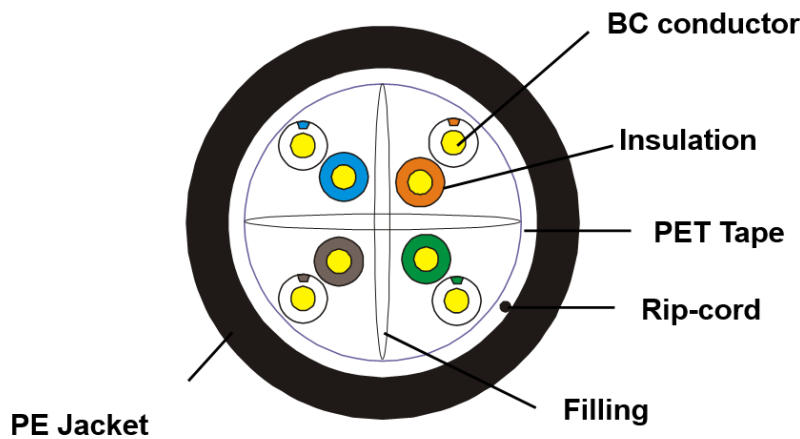


Product Overview

The Giganet Category 6 U/UTP 23 AWG solid 4 pair LDPE cable meet performance standard and provides a considerable margin above all electrical transmission performance requirements and has been tested to exceed (ISO/IEC11801, TIA-568-C.2) standards.

The cable is rated to 250Mhz and supports Gigabit Ethernet, Power over ethernet (POE) and Audio / Visual (AV) and broadband Video transmissions. The Giganet cable has been designed and engineered to provide, cost-effective, and high bandwidth transmission performance.

The cable also features a central isolation cross member to keep individual pairs separated for optimal NEXT and ELFEXT performance.



Product Features

FEATURES
External Grade
Outdoor Suitable
Four number of pairs
UV and Moisture Resistant Polyethylene Outer Sheath
Supports Gigabit Ethernet
Insulation – LDPE
Jacket – PE
Suitable for duct and underground conduit applications

Ordering Information

Part Number	Product Description
GN-C6X4-UTP-LDPE	Giganet Category 6 UTP 23-AWG PE Black Cable -305m Reel

Product Specification

CABLE TECHNICAL SPECIFICATION						
Conductor	Material	SOLID-Bare Copper				
	Nom. O.D. (mm)	0.540	<table border="1"> <tr> <td>Up</td> <td>+0.005</td> </tr> <tr> <td>Down</td> <td>-0.005</td> </tr> </table>	Up	+0.005	Down
Up	+0.005					
Down	-0.005					
Insulation	Material	HDPE				
	Diameter	0.94±0.05mm				
Color	A.Blue, White-Blue	B.Orange,White-Orange				
	C.Green,White-Green	D.Brown, White-Brown				
Shield	PET Tape					
Sheath	Thickness	0.55±0.05 mm				
	External O.D.	6.1±0.5 mm				
	Surface	Clean, Frap, Satiation				
	Material	LDPE (complies RoHS)				
Outer Jacket Physical Properties	Before Aging	Tensile Strength (Mpa): ≥10.0				
		Elongation (%): ≥350				
	Aging Period (°C×hrs)	100°C×24h×10d				
	After Aging	Elongation (%): ≥300				
Cold bend (-20±2°C×4h)	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 9.38					
	DC Conductor Resistance Unbalance (%) max 5.0					
Packing Length	305± 1.5m					
Standards	ISO/IEC11801, TIA-568-C.2					

PERFORMANCE TABLE							
Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8