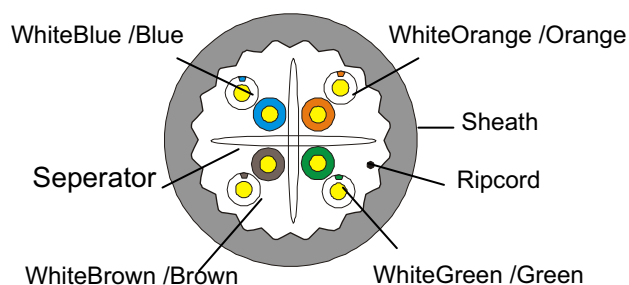


The Duranet Category 6A 500Mhz U/UTP LSZH cable has been designed and manufactured to exceed TIA-568.2-D, ISO/IEC 11801-1, IEC61156-5, EN 50173-1, EN 50288-10, IEC 60332-1-1, IEC 60754-2, IEC 61034-1 and CENELEC performance requirements. The cable is ideal for 10 Gigabit networks. Duranet Category 6A U/UTP cable can be used in either horizontal or backbone cabling subsystems. The Cat 6A system supports emerging and convergence applications, performance and ease of termination.

CABLE CHARACTERISTICS

Conductor	Material	Solid Bare Copper		
	Nom.O.D.(mm)	0.570 23 AWG	up	+0.005
			down	-0.005
Insulation	Material	HDPE		
	Diameter	1.02±0.03mm		
Sheath	Thickness	0.65±0.05 mm (Avg.)		
	External O.D.	6.9±0.4 mm		
	Surface	Clean,Frap,Satiation		
	Material	FR-LSZH (complies RoHS)		
	Color	Blue		
Surface Printing	Letter height	3.0±0.3mm		
	Color	Black		
	Print error & Space	≤±0.5%, 1m		
Core Color	1 White Blue /Blue	2 WhiteOrange /Orange		
	3 WhiteGreen /Green	4 White Brown /Brown		
Packing	Drum			
Flammability Rating	IEC-60332-3-22			
Packing length	305±1.5m			
Ripcord	Yes	Drain wire		No
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)		≥13.5	
	Elongation(%)		≥150	
	Aging Period (℃×hrs)		100℃×24h×7d	
	After Aging Tensile Strength(Mpa)		≥12.5	
Electrical Characteristics (20℃)	1.0500.0MHz Delay Shew (ns/100m)		≤45	
	NVP		69	
	DC Resistance (Ω/100m) max		9.38	
	DC Conductor Resistance Unbalance (%) max		5.0	



PRODUCT INFORMATION

Part Number	Product Description
DNC-C6AUUCBL-LS305-3-2A	Duranet Category 6A Solid U/UTP LSZH Cable, 23 AWG - 305m drum

APPLICATION

1000 Base-T Gigabit Ethernet
 10G Base-T 10 Gigabit Ethernet
 ATM
 IEEE 802.3af/at POE+
 Applications up to 500Mhz

ELECTRICAL SPECIFICATIONS

DC Resistance <9.38 Ω/100m
 DC Resistance Unbalanced 5%
 Mutual Capacitance 5.6 nF/100m
 Capacitance Unbalanced <330 pF/100m

PERFORMANCE / SPECIFICATION TABLE

TRANSMISSION PERFORMANCE



GUARANTEED WORST CASE



TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.8	75.3	86.0	73.3	82.3	73.2	84.2	71.2	80.5	73.3	91.0	71.3	85.0	20.0	33.0	570	570
4.0	3.8	3.4	66.3	77.0	64.3	73.3	62.5	73.6	60.5	69.9	61.3	79.0	59.3	73.0	23.0	35.5	552	552
10.0	5.9	5.4	60.3	71.0	58.3	67.3	54.4	65.6	52.4	61.9	53.3	71.0	51.3	65.0	25.0	38.0	545	545
16.0	7.5	6.9	57.2	68.0	55.2	64.2	49.8	61.1	47.8	57.3	49.2	67.0	47.2	61.0	25.0	35.2	543	543
20.0	8.4	7.7	55.8	67.0	53.8	62.8	47.4	59.3	45.4	55.1	47.3	65.0	45.3	59.0	25.0	35.0	542	542
31.25	10.5	9.9	52.9	64.0	50.9	59.9	42.4	54.1	40.4	50.0	43.4	61.0	41.4	55.0	23.6	33.1	540	540.4
62.5	15.0	14.3	48.4	59.0	46.4	55.4	33.4	44.7	31.4	41.1	37.4	55.0	35.4	49.0	21.5	32.2	539	538.6
100.0	19.1	18.1	45.3	56.0	43.3	52.0	26.2	37.9	24.2	33.9	33.3	51.0	31.3	45.0	20.1	31.6	538	537.6
200.0	27.6	27.3	40.8	52.0	38.8	47.8	13.2	24.7	11.2	20.5	27.3	45.0	25.3	39.0	18.0	29.8	537	536.5
250.0	31.1	31.1	39.3	50.0	37.3	46.0	8.3	18.9	6.3	14.9	25.3	43.0	23.3	37.0	17.3	28.7	536	536.3
300.0	34.3	35.0	38.1	49.0	36.1	45.0	3.9	14.0	-1.9	10.0	23.8	38.0	21.8	35.0	17.3	28.0	536	536.1
400.0	40.1	40.0	36.3	47.0	34.3	43.0	-3.8	7.0	-5.8	3.0	21.3	36.0	19.3	33.0	17.3	27.1	536	535.8
500.0	45.3	42.0	34.8	47.0	32.8	42.0	-10.4	5.0	-12.4	0.0	19.3	34.0	17.3	32.0	17.3	26.0	536	535.6
550.0*	-	43.0	-	46.0	-	42.0	-	3.0	-	-1.0	-	33.0	-	31.0	-	26.0	536	-
625.0*	-	44.9	-	46.0	-	41.0	-	1.1	-	-3.9	-	33.0	-	29.0	-	25.0	535	-
750.0*	-	49.0	-	45.0	-	41.0	-	-4.0	-	-8.0	-	32.0	-	27.0	-	25.0	535	-

* Values above 500 MHz are informational only

Nominal velocity of propagation (NVP 69%)

STANDARDS

ANSI/TIA/EIA 568.2-D

ISO/IEC 11801: 2002

ETL VERIFIED

System Warranty:

The Duranet System Warranty provides the end user an exclusive 25 year warranty when installed by a Duranet Certified Installer providing 100% coverage on non consumable products , application as surance and labour covering both link and channel using Duranet cable and connectivity. The warranty requested will depend on the class of cabling based on compliance to Industry standards using an approved performance tester.