

# CAT-5E

Ness premium CAT-5E cable  
305m Easy pull Reel-In-A-Box  
Part No. 101-511



**APPROVED  
CABLE**



**SOLID  
COPPER**

## SPECIFICATIONS

CONDUCTOR	Material	Bare copper							
	Construction	24AWG(1/0.50)							
	O.D.	0.5 mm±0.02mm							
INSULATION	Material	HD-PE							
	Thickness	0.269mm±0.05mm							
	O.D.	0.975mm±0.03mm							
	Elongation	Min. 300%							
TWISTED PAIRS	Tensile	Min. 1.22kg/mm <sup>2</sup>							
	1. Blue\White / Blue	Unused Unused							
	2. Orange\White / Orange	Transmit Data + Transmit Data -							
	3. Green\White / Green	Receive Data + Receive Data -							
JACKET	4. Brown\White / Brown	Unused Unused							
	Material	PVC							
	Thickness	0.615mm±0.1mm							
	O.D.	5.6mm±0.3mm							
	Colour	Blue							
	Elongation	Min. 125%							
PHYSICAL & STANDARDS	Tensile	Min. 1.41kg/mm <sup>2</sup>							
	Weight	9.8kgs/305m							
	Cable Length	305m							
	Cable feed	Reel-in-a-box							
	Dimensions	330(W) x 340(H) x 180(D) mm							
	Applications	100 Base-TX, 100 Base-T4, 100VG-Any LAN, 1000Base-T, ATM							
	Data Pass	180m							
	Standard	CE,ROHS,ISO,SGS							
	Temperature rating	-30 °C to 75°C							
	TECHNICAL SPECIFICATIONS	Resistance	24AWG: 9.38/100m Max.(at 20)						
Resistance unbalanced		5% Max							
Capacitance		5600pf/100 meters							
Capacitance unbalanced		330pf/100 meters							
Impedance		772KHz: 102±15% (85-117)							
		1 MHz-100MHz: 100±15% (85-115)							
Propagation Delay		518ns/100m Max.(10MHZ)							
Delay Skew (ns)		45 ns/100m Max.							
		MHz	0.772	1	8	10	25	63	100
Attenuation (dB)			2.2	2.4	7	7.8	12.5	20.42	26
NEXT (dB)			67	65	52	50	44.3	38	35
PSNEXT (dB)			63.7	62	49	47	41.3	35	32
ELFEXT (dB)				62	49	47	41.3	35	32
PS ELFEXT (dB)			61	43	41	32.8	25	21	
	MHz	1-20	25	31.25	62.5	100			
Return Loss (dB)		23	22.03	21.06	18.05	16.01			



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