



CAT 5E UTP/OUTDOOR LAN CABLE

Gel Filled

Shireen's item# DC-1020 is high quality outdoor Cat5e cable. Features double outer jacket, 4 Twisted pairs of 24AWG wire with LDPE + Gel. Excellent for use in any outdoor/direct burial application of networking, data transfer and phone lines. It supports 10/100/1000Mbps.

Cross Section

Cable Description

Conductor :
 Pairs: 4
 Total Conductors: 8
 AWG: 24
 Dia. of Conductor: $\Phi 0.50 \pm 0.01 \text{mm}$
 Material: Solid Bare Copper
 Elongation: $\geq 15\%$

Insulation :
 Material: HDPE
 Nom. Thickness: 0.24mm
 Dia.: $\Phi 0.98 \pm 0.05 \text{mm}$
 Elongation: $\geq 300\%$
 Color Cord:
 Pair 1 : White-Blue/Blue
 Pair 2 : White-Orange/Orange
 Pair 3 : White-Green/Green
 Pair 4 : White-Brown/Brown

Sheath:
 Material: Inner:PVC Outer: LDPE
 Rip Cord: 200D \times 3
 Nom. Thickness: Inner : $0.30 \pm 0.05 \text{mm}$
 Outer : $0.65 \pm 0.05 \text{mm}$
 O.D.: $\Phi 7.00 \pm 0.2 \text{mm}$
 Color: Inner:Black
 Outer:Black

Packing: 1000ft Reel-in-a Box

Electrical Characteristics(20°C)					
Standard :		IA/EIA-568-B.2 & IEC/ISO 11801			
Tests:		Units	Spec		
1. Conductor D.C. Resistance		$\Omega/100\text{m}$	≤ 9.5		
2. Imbalance of Pair D.C Resistance		%	≤ 2.5		
3. Dielectric Strength between Pair:		kv/min	≤ 1.0		
4. Insulation Resistance		$\text{M}\Omega \cdot \text{km}$	≥ 5000		
5. Capacitance		nF/100m	≤ 5.6		
6. Imbalance of Capacitance		pF/100m	≤ 330		
7. Characteristic impedance(1 to 100M Ω)			100 ± 15		
8. Short or Open of the loop		—	None		
Frequency (MHz)	RL (dB)	SRL (dB)	ATTEN (dB/100m)	NEXT (dB/100m)	
1	20.00	28.00	2.03	65.30	
4	23.01	28.00	4.03	56.27	
8	24.52	28.00	5.73	51.75	
10	25.00	28.00	6.43	50.30	
16	25.00	28.00	8.19	47.24	
20	25.00	25.00	9.20	45.78	
25	24.32	27.03	10.33	44.33	
31.25	23.64	26.06	11.62	42.88	
62.5	21.54	23.05	16.79	38.36	
100	20.11	21.01	21.65	35.30	
Frequency (MHz)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)	
1	62.30	64.00	61.00	45.00	
4	53.27	51.96	48.96	45.00	
8	48.75	45.94	42.94	45.00	
10	47.30	44.00	41.00	45.00	
16	44.24	39.92	36.92	45.00	
20	42.78	37.98	34.98	45.00	
25	41.33	36.04	33.04	45.00	
31.25	39.88	34.10	31.10	45.00	
62.5	35.36	28.08	25.08	45.00	
100	32.30	24.00	21.00	45.00	
Mechanical and Environmental Specifications					
Operating Temp Range		minus 49°F to +149°F (-45°C to +65°C)			
Weight		37 lbs			