

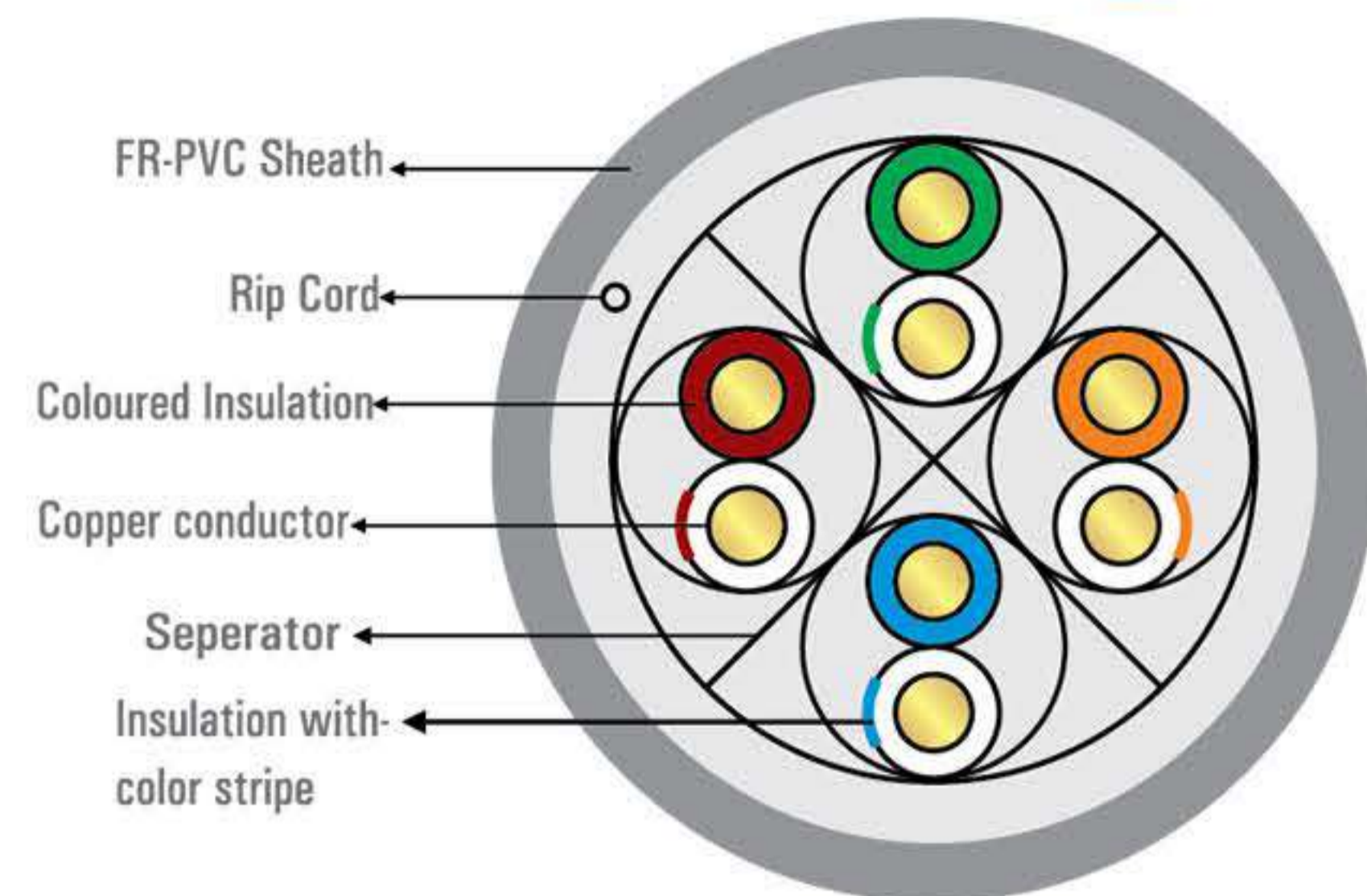
## CAT 6 U/UTP 23AWG Solid:305M

CAT6 U/UTP Cable supports Gigabit Ethernet (1000 Base-T) standard. Operates at a bandwidth up to 250 Mhz. This cable well exceeds the requirements of TIA/EIA-568.C.2 Category 6 ISO/IEC Class E



### SPECIFICATION

- **Category :** 6 U/UTP Solid cable
- **Conductor :** 23 AWG (Solid)
- **Conductor Material:** Bare Copper
- **Insulation Material :** HD-PE
- **OD :** 6.1 ±0.4
- **Jacket hardness :** PVC:91A, LSZH: 96A
- **Heat-resistant :** 75 degree C minimum (Temperature limited)



APPLICATION	CONSTRUCTION	ELECTRICAL PROPERTIES
<p>Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Performance verified up to 600 Mhz.</p> <p><b>This cable well exceeds the requirements of ANSI-TIA-568-C.2 category6 ISO 11801 Class E</b></p>	<p><b>Conductor:</b> 23 AWG Solid bare Copper (4pair)</p> <p><b>Insulation:</b> High density Polyethylene</p> <p><b>Pairs:</b> 2 Insulated conductors twisted together</p> <p><b>Sheath:</b> FR-PVC</p> <p><b>Insulation thickness:</b> 0.2mm nominal</p> <p><b>Cable Diameter:</b> 6.1mm nominal</p> <p><b>Cable wt per Box:</b> 13.6 Kgs nominal</p> <p><b>Printing:</b> Each meter printed with sequential Length Counter</p>	<p><b>Characteristic Impedance:</b> 100 ± 15 Ω</p> <p><b>Conductor Resistance:</b> ≤ 9.38Ω/100m</p> <p><b>Insulation Resistance:</b> 100M Ω</p> <p><b>Mutual Capacitance:</b> ≤ 5.6nF/100m</p> <p><b>Resistance Unbalance:</b> 5% Max</p> <p><b>Capacitance Unbalance:</b> 330pF/100m</p> <p><b>Delay Skew:</b> &lt; 45nS</p> <p><b>NVP(%):</b> 69%</p> <p><b>Operating Voltage:</b> 72V</p> <p><b>Dielectric Strength:</b> 1.0KV dc or 0.75KV ac for 1min</p>

### TRANSMISSION CHARACTERISTICS PER 100M

Freq MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	ACR (dB)	PSACR (dB)
1	2.0	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.8	23.0	65.3	63.3	55.8	52.8	61.5	59.5
8	5.3	24.5	60.8	58.8	49.7	46.7	55.5	53.5
10	6.0	25.0	59.3	57.3	47.8	44.8	53.3	51.3
16	7.6	25.0	56.2	54.2	43.7	40.7	48.6	46.6
20	8.5	25.0	54.8	52.8	41.8	38.8	46.3	44.3
25	9.5	24.3	53.3	51.3	39.8	36.8	43.8	41.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9	41.2	39.2
62.5	15.4	21.5	47.4	45.4	31.9	28.9	32.0	30.0
100	19.8	20.1	44.3	42.3	27.8	24.8	24.5	22.5
200	29.0	18.0	39.8	37.8	21.8	18.8	10.8	8.8
250	32.8	17.3	38.3	36.3	19.8	16.8	5.5	3.5
500	45.3	15.2	33.8	31.8	13.8	10.8	4.5	2.8
600	51	14.5	31.2	29.9	11.8	8.6	3.5	2.1



### KEY FEATURES

- Comply with Cat.6 specifications
- 4-pair unshielded twisted pair (UTP) cable
- Pairs are braided in aluminum foil with drain wire
- 23 AWG solid copper conductor for superior conductivity
- PE insulation
- PE central cross
- FR PVC/LSZH Jacket
- Verified compliant with EIA/TIA standards by ETL
- CUL-listed
- Packaged in an easy-to-pull box for easier installation

### ORDER INFORMATION

