



### Features and Benefits

- Extremely high bandwidth of 600MHz (Cat 1), 1G Mhz (Cat 7A)
- Individual pair shielding to provide EMI protection
- Highest signal to noise ration to reduce related downtime and network errors
- Provides positive PSACR beyond 600 MHz (cat 7), 1G MHZ (Cat 7A)
- Every master reel is tested to ensure electrical performance compliance
- Print legend contains footage marking from 305M to 0M or 500M to 0M
- Unique product specific packaging for ease of identification
- ROHS complaint
- Cat 7: EC Verified

### Electrical Performance

Meet IEC 61156-5 ED.2.0 Category 7A Horizontal Cable Parameters

| Freq. (MHz) | Ins. Loss (db/100m) | RL (db) | Pair to Pair (db/100m) |        | Power Sum (db/100m) |        | Po. Delay (ns/100m) |
|-------------|---------------------|---------|------------------------|--------|---------------------|--------|---------------------|
|             |                     |         | Next                   | Elfext | Next                | Elfext |                     |
|             |                     |         | Min.                   | Min.   | Min.                |        |                     |
| 1           | --                  | 20      | -                      | -      | -                   | -      | -                   |
| 4           | 33.7                | 23.0    | 75.0                   | 75.0   | 75.0                | 75.0   | 552.0               |
| 10          | 5.8                 | 25.0    | 75.0                   | 75.0   | 75.0                | 72.3   | 545.4               |
| 16          | 7.3                 | 25.0    | 75.0                   | 71.2   | 75.0                | 68.2   | 543.0               |
| 20          | 8.2                 | 25.0    | 75.0                   | 69.3   | 75.0                | 66.3   | 542.0               |
| 31.25       | 10.3                | 23.6    | 75.0                   | 65.4   | 75.0                | 62.4   | 540.4               |
| 62.5        | 14.6                | 21.5    | 75.0                   | 59.4   | 75.0                | 56.4   | 538.6               |
| 100         | 18.5                | 20.1    | 75.0                   | 55.3   | 72.4                | 52.3   | 537.6               |
| 200         | 26.5                | 18.0    | 70.9                   | 49.3   | 67.9                | 46.3   | 536.5               |
| 250         | 29.7                | 17.3    | 69.4                   | 47.3   | 66.4                | 44.3   | 536.3               |

### Standard Compliance

- ISO / IEC 11801 2nd Edition: 2002
- ISO/IEC 11801 amendment 2:2010
- IEC 61156-5:2009 (Ed.2.0)
- EN 50173:2007
- IEC 61156-5:2009 (Ed.2.0)
- Cat7A

### Application

- 2.4/1.2 Gb/s ATM
- IEEE 802.3an : 10G BASE-T (10G Gigabit Ethernet) supporting 100 meters
- 3D imaging
- Digital Video
- Broadband and baseband Analog Video

### Technical details

- Capacitance unbalance (max) @0.8 or 1 KHz (pF/km) :1600 DC
- Resistance (max): %/k m @ 20°C : 95
- Resistance unbalance within a pair(max). (%): 2
- Resistance unbalance between pairs (max)(%) : 4
- Mean input impedance @ 100MHZ : 100 ± 5°
- Dielectric Strength
 

|                                |                            |
|--------------------------------|----------------------------|
| Min                            | Min                        |
| 1 .0kVdc or 0.7kVac for 1 min. | 2.5 dcor1.7kVac for 2 secs |

### ORDERING INFORMATION

| Part No   | Description   |
|-----------|---|
| 301100711 | Category7U-UTP Installation Cable, 23AWG305 Meter/Roll PVC, Blue Color  |
| 301400711 | Category7F-UTP Installation Cable, 23AWG305 Meter/Roll PVC, Blue Color  |
| 301500711 | Category7U-UTP Installation Cable, 23AWG305 Meter/Roll PVC, Blue Color  |
| 301600711 | Category7SU-UTP Installation Cable, 23AWG305 Meter/Roll PVC, Blue Color |

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