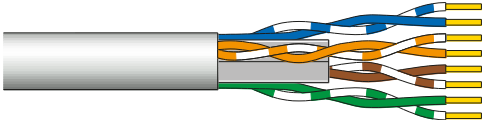
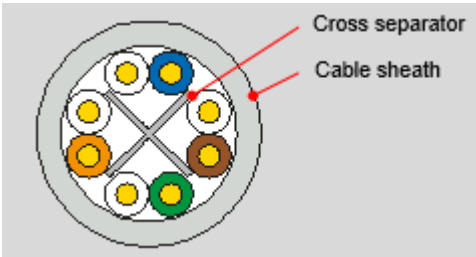


Newlink UTP 10G Cat 6A CM 500MHz Cable



Cable construction

| | |
|-----------------------|---|
| Conductor | Bare solid copper wire AWG23 (≥ Ø 0.56mm) |
| Insulation | Polyolefine ≤ Ø 1.09 mm |
| Twisting | 2 wires to the pair |
| Cable lay up | 4 pairs to the core with cross separator |
| Pair screen | Non |
| Overall screen | Non |
| Sheath | PVC, Gray RAL 7035 |

| | | |
|------------------------------|---|--|
| Application | Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T; 10GBase-T IEEE 802.5 16 MB; ISDN; TPDDI; ATM | |
| | IEEE 802.3af-2002: POE; IEEE 802.3af: POE+ | |
| Standards | ISO/IEC 11801 2 nd ed.; EN 50173-1; ANSI/TIA-568-C.2 IEC 61156-5 2 nd ed.; prEN 50288-11-1 | |
| Fire rating | UL CM Rate& ROHS Standard | |
| Technical Data | Cable designation | Cat.6A U/UTP 500MHz_4PxAWG23 |
| | Packaging | 305 meter/Drum |
| | Outer diameter | Nominal 7.8 – 8.0 mm |
| | Weight | 70kg / km |
| | Segregation class | C |
| | Tensile force | 100 N |
| Mechanical Properties | Bending radius | ≥ 35 mm during operation (without load) ≥ 70 mm during installation (with load) |
| | Temperature range | During operation -20°C... + 60°C |
| | | During installation 0°C... + 50°C |

| Electrical Properties (at 20°C ± 5°C) | DC loop resistance | | ≤ 165 Ω/km |
|--|---|----------------------|------------------|
| | Resistance unbalance | | ≤ 2 % |
| | Test voltage | DC, 1 min, core/core | 1000 V |
| | Insulation resistance | 500 V | ≥ 5000 MΩ * km |
| | Capacitance | | 50 pF / m nom. |
| | Capacitance unbalance | | ≤ 1.5 pF / m |
| | Mean characteristic impedance @ 100 MHz | | 100 ± 5 Ω |
| | Nominal velocity of propagation | | Approx. 65 % |
| | Propagation delay | At 100 MHz | ≤ 538 ns / 100 m |
| | Delay skew | | ≤ 45 ns / 100 m |
| | Coupling attenuation | | ≥ 55 dB |
| | Transfer impedance | At 1 MHz | N/A |
| | | At 10 MHz | N/A |
| | | At 100 MHz | N/A |
| | Balance TCL | At 1 MHz | ≥ 50 dB |
| At 10 MHz | | ≥ 40 dB | |
| At 100 MHz | | ≥ 40 dB | |
| PS-Alien NEXT | At 100 MHz | Min. 62.5 dB | |
| | | Typ. 69 dB | |

Typical transmission characteristics (at 20°C)

| Frequency (MHz) | Attenuation (dB/100 m) | | NEXT (dB) | | PS-NEXT (dB) | | ACR-F (dB/100 m) | | PS-ACR-F (dB/100 m) | | Return loss (dB) | |
|--------------------|---------------------------|-----|--------------|-----|-----------------|-----|---------------------|-----|------------------------|-----|---------------------|-----|
| | Max | Typ | Min | Typ | Min | Typ | Min | Typ | Min | Typ | Min | Typ |
| 4 | 3.8 | | 66.3 | | 63.3 | | 56 | | 53 | | 23 | |
| 10 | 5.9 | | 60.3 | | 57.3 | | 48 | | 45 | | 25 | |
| 20 | 8.4 | | 55.8 | | 52.8 | | 42 | | 39 | | 25 | |
| 62.5 | 15 | | 48.4 | | 45.4 | | 32.1 | | 29.1 | | 21.5 | |
| 100 | 19.1 | | 45.3 | | 42.3 | | 28 | | 25 | | 20.1 | |
| 250 | 31.1 | | 39.3 | | 36.3 | | 20 | | 17 | | 17.3 | |
| 500 | 45.3 | | 34.8 | | 31.8 | | 14 | | 11 | | 17.3 | |

Ordering Information:

| Part number | Description |
|--------------------|--|
| NEW-9807311 | Newlink UTP Cat 6A CM 23 AWG 1000ft Gray |
| NEW-9807312 | Newlink UTP Cat 6A CM 23 AWG 1000ft Blue |