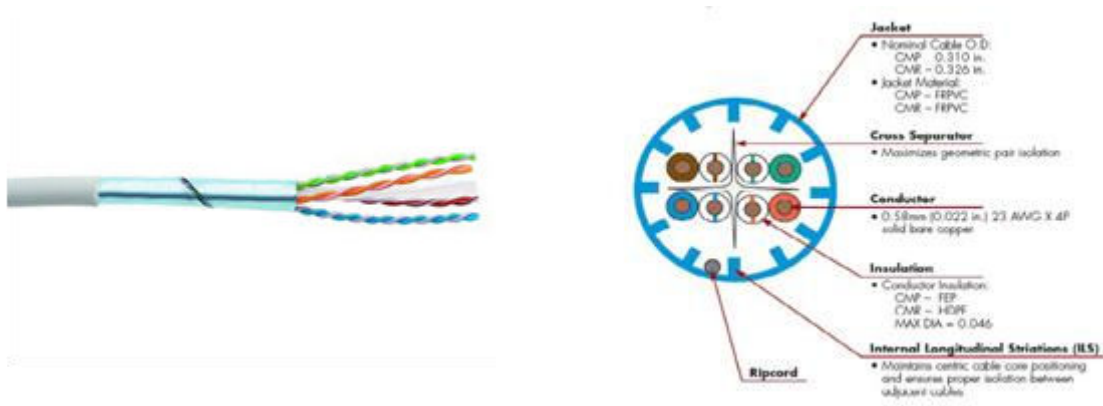




We provide our customers with exceptional **PRODUCTS** in accordance with the highest international standards and also provide **SERVICES** that meets our customers' needs or exceed their expectations.

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|                                 |                                                                                                                                                                                                                                                                                                                                                |                                                                         |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Description Cable</b>        | ProLink CAT 6A U/UTP CABLE, 4 PAIR 23 AWG , LSZH , White , 305 m length<br>Reel in a box                                                                                                                                                                                                                                                       |                                                                         |
| <b>Cable Reference</b>          | PROLINK Positioning CAT.6A U/UTP                                                                                                                                                                                                                                                                                                               |                                                                         |
| <b>Cable construction</b>       | <b>Conductor</b>                                                                                                                                                                                                                                                                                                                               | Solid copper wire AWG23 (Ø 0.58mm).                                     |
|                                 | <b>Insulation</b>                                                                                                                                                                                                                                                                                                                              | Polyethylene ≤ Ø 7.0 mm.                                                |
|                                 | <b>Cable lay up</b>                                                                                                                                                                                                                                                                                                                            | 4 pairs to the core, non-metallic cross separator (spline)              |
|                                 | <b>Cable corralling</b>                                                                                                                                                                                                                                                                                                                        | Waterproof compound to prevent moisture migration and water protection. |
|                                 | <b>Sheath</b>                                                                                                                                                                                                                                                                                                                                  | White, LSZH                                                             |
| <b>Application</b>              | Primary (Campus), Secondary (Riser), Tertiary (Horizontal)<br>IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;<br>IEEE 802.5 16 MB; ISDN; TPDDI; ATM IEEE 802.3af-2002: POE;<br>IEEE 802.3at: POE+ Outdoor installations.<br>Filled with compound to prevent water penetration. To ensure electrical properties even in continuous wet conditions. |                                                                         |
| <b>Standards</b>                | ISO/IEC 11801 ed. 2.2; IEC 61156-5 2nd ed.; EN 50173-1; TIA 568-C.2; Fire rating:<br>IEC 60332-1; IEC 60754-2; IEC 61034                                                                                                                                                                                                                       |                                                                         |
| <b>Water penetration rating</b> | IEC 60794-1-2F5, method B                                                                                                                                                                                                                                                                                                                      |                                                                         |
| <b>Fire rating</b>              | (PE outer sheath) IEC 60754-2; Smoke classic cation: No                                                                                                                                                                                                                                                                                        |                                                                         |
| <b>Technical Data</b>           | <b>Cable designation</b>                                                                                                                                                                                                                                                                                                                       | Industry U/UTP Cat.6 500MHz 4PxAWG23                                    |
|                                 | <b>Packaging</b>                                                                                                                                                                                                                                                                                                                               | Drum 305 m                                                              |
|                                 | <b>Outer diameter</b>                                                                                                                                                                                                                                                                                                                          | Nominal 7.2 mm                                                          |
|                                 | <b>Weight</b>                                                                                                                                                                                                                                                                                                                                  | 20 kg / km                                                              |
|                                 | <b>Thermal load</b>                                                                                                                                                                                                                                                                                                                            | 1884 MJ / km                                                            |
|                                 | <b>Segregation class</b>                                                                                                                                                                                                                                                                                                                       | b                                                                       |
|                                 | <b>Tensile force</b>                                                                                                                                                                                                                                                                                                                           | 100N                                                                    |

|                                                  |                                                |                                                                                    |
|--------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Mechanical Properties</b>                     | <b>Bending radius</b>                          | ≥ 33 mm during operation (without load)<br>≥ 65 mm during installation (with load) |
|                                                  | <b>Temperature range</b>                       | During operation -55°C...+ 60°C<br>During installation -15°C...+ 50°C              |
| <b>Electrical Properties<br/>(at 20°C ± 5°C)</b> | <b>DC loop resistance</b>                      | ≤ 15 Ω / 100 m                                                                     |
|                                                  | <b>Resistance unbalance</b>                    | ≤ 2 %                                                                              |
|                                                  | <b>Test voltage</b>                            | DC, 1 min, core/core 1000 V                                                        |
|                                                  | <b>Insulation resistance</b>                   | 500 V ≥ 4000 MΩ * km                                                               |
|                                                  | <b>Capacitance</b>                             | 48 pF / m nom.                                                                     |
|                                                  | <b>Capacitance unbalance</b>                   | ≤ 1500 pF / km                                                                     |
|                                                  | <b>Mean characteristic impedance</b>           | 100±5Ω                                                                             |
|                                                  | <b>Nominal velocity of propagation Approx.</b> | 67 %                                                                               |
|                                                  | <b>Propagation delay</b>                       | At 1 MHz ≤ 535 ns / 100 m                                                          |
|                                                  | <b>Delay skew</b>                              | ≤ 20 ns / 100 m                                                                    |
|                                                  | <b>Coupling attenuation</b>                    | ≥ 40 dB                                                                            |
|                                                  | <b>Balance TCL</b>                             | At 1 MHz ≤ 55 dB                                                                   |
|                                                  |                                                | At 10 MHz ≤ 40 dB                                                                  |
|                                                  |                                                | At 100 MHz ≤ 35 dB                                                                 |

### Typical transmission characteristics (at 20°C)

| F<br>(MHZ) | Attenuation<br>(Db/100 m) |      | NEXT<br>(dB) |      | PS-NEXT<br>(dB) |      | ACR-F 1)<br>(dB/100 m) |      | PS-ACR -F 1)<br>(dB/100 m) |      | Return loss<br>(dB) |      |
|------------|---------------------------|------|--------------|------|-----------------|------|------------------------|------|----------------------------|------|---------------------|------|
|            | Max                       | type | max          | type | max             | type | max                    | type | max                        | type | max                 | type |
| 4          | 3.8                       | 3.8  | 66           | 71   | 63              | 66   | 58                     | 59   | 55                         | 56   | 23                  | 26   |
| 10         | 6                         | 5.6  | 60           | 65   | 57              | 60   | 50                     | 50   | 47                         | 48   | 25                  | 28   |
| 20         | 8.5                       | 8.5  | 56           | 60   | 53              | 56   | 44                     | 45   | 41                         | 42   | 25                  | 28   |
| 62.5       | 15.5                      | 15.1 | 48           | 56   | 45              | 48   | 34                     | 35   | 31                         | 32   | 21.5                | 25   |
| 100        | 19.9                      | 19.1 | 45           | 50   | 42              | 45   | 30                     | 31   | 27                         | 28   | 20.1                | 23   |
| 250        | 33                        | 32   | 39           | 44   | 36              | 39   | 22                     | 23   | 19                         | 20   | 17.3                | 20   |
| 450        | -                         | 44.8 | -            | 40   | -               | 35   | -                      | 15   | -                          | 17   | -                   | 20   |