

# TRIAX® CAT6 cables

UTP connection cable



## Triax CAT 6 twisted pair cables

These 4 twisted pair 23 AWG Cat 6 cables are used in data communication networks for transmission of telephone, internet and video/TV signals.

In the creation of high quality networks the Cat 6 cables are ideal where your installation requires high bandwidth. The bandwidth limit is 250 MHz.

Allowing 10/100/1000 use with up to 100 meter cable length, supporting speeds up to 10 gigabits per second over shorter distances.

- 23 AWG Solid Bare Copper
- High speed gigabit Ethernet
- Superior performance and quality



**Cat 6 - LSZH white, 23AWG,  
250MHz, U/UTP, 305 m**

Art. No. 155006

EAN Number  
5702661550065



**Cat 6 - PE black, 23AWG,  
250MHz, U/UTP, 100 m**

Art. No. 155003

EAN Number  
5702661550034



**Cat 6 - PVC grey, 23AWG,  
250MHz, U/UTP, 305 m**

Art. No. 155001

EAN Number  
5702661550010



**Cat 6 - PE brown, 23AWG,  
250MHz, U/UTP, 100 m**

Art. No. 155004

EAN Number  
5702661550041

# TRIAX® CAT6 cables

UTP connection cable

| Type:                                 | Cat 6<br>LSZH white<br>23AWG<br>250MHz U/UTP<br>305 m | Cat 6<br>PVC grey<br>23AWG<br>250MHz U/UTP<br>305 m | Cat 6<br>PE black<br>23AWG<br>250MHz U/UTP<br>100 m | Cat 6<br>PE brown<br>23AWG<br>250MHz U/UTP<br>100 m |
|---------------------------------------|-------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Art. no.                              | 155006                                                | 155001                                              | 155003                                              | 155004                                              |
| CONSTRUCTION                          |                                                       |                                                     |                                                     |                                                     |
| Inner conductor - material            | Solid Bare Cu                                         |                                                     |                                                     |                                                     |
| Inner conductor - dimension           | 0.53 ±0.005mm                                         |                                                     |                                                     |                                                     |
| Flat filler - material                | PE Spline                                             |                                                     |                                                     |                                                     |
| Insulation material                   | Solid PE                                              |                                                     |                                                     |                                                     |
| Jacket – dimension                    | 6.0 ± 0.50mm                                          |                                                     |                                                     |                                                     |
| Jacket - thickness                    | 0.5mm                                                 |                                                     |                                                     |                                                     |
| Jacket - material                     | LSZH                                                  | PVC                                                 | PE                                                  | PE                                                  |
| Colour code - Pair 1                  | Blue / White-Blue                                     |                                                     |                                                     |                                                     |
| Colour code - Pair 2                  | Orange / White-Orange                                 |                                                     |                                                     |                                                     |
| Colour code - Pair 3                  | Green / White-Green                                   |                                                     |                                                     |                                                     |
| NEXT                                  |                                                       |                                                     |                                                     |                                                     |
| Next @ 1 MHz                          | 74.30dB                                               | 74.30dB                                             | 74.30dB                                             | 74.30dB                                             |
| Next @ 4 MHz                          | 65.30dB                                               | 65.30dB                                             | 65.30dB                                             | 65.30dB                                             |
| Next @ 10 MHz                         | 59.30dB                                               | 59.30dB                                             | 59.30dB                                             | 59.30dB                                             |
| Next @ 16 MHz                         | 56.20dB                                               | 56.20dB                                             | 56.20dB                                             | 56.20dB                                             |
| Next @ 25 MHz                         | 53.30dB                                               | 53.30dB                                             | 53.30dB                                             | 53.30dB                                             |
| Next @ 31.25 MHz                      | 51.90dB                                               | 51.90dB                                             | 51.90dB                                             | 51.90dB                                             |
| Next @ 100 MHz                        | 44.30dB                                               | 44.30dB                                             | 44.30dB                                             | 44.30dB                                             |
| Next @ 200 MHz                        | 39.80dB                                               | 39.80dB                                             | 39.80dB                                             | 39.80dB                                             |
| Next @ 250 MHz                        | 38.30dB                                               | 38.30dB                                             | 38.30dB                                             | 38.30dB                                             |
| LOSS                                  |                                                       |                                                     |                                                     |                                                     |
| Attenuation (at 20°C) @ 1 MHz         | 2.00dB                                                | 2.00dB                                              | 2.00dB                                              | 2.00dB                                              |
| Attenuation (at 20°C) @ 4 MHz         | 3.80dB                                                | 3.80dB                                              | 3.80dB                                              | 3.80dB                                              |
| Attenuation (at 20°C) @ 10 MHz        | 6.00dB                                                | 6.00dB                                              | 6.00dB                                              | 6.00dB                                              |
| Attenuation (at 20°C) @ 16 MHz        | 7.60dB                                                | 7.60dB                                              | 7.60dB                                              | 7.60dB                                              |
| Attenuation (at 20°C) @ 25 MHz        | 9.50dB                                                | 9.50dB                                              | 9.50dB                                              | 9.50dB                                              |
| Attenuation (at 20°C) @ 31.25 MHz     | 10.70dB                                               | 10.70dB                                             | 10.70dB                                             | 10.70dB                                             |
| Attenuation (at 20°C) @ 100 MHz       | 19.80dB                                               | 19.80dB                                             | 19.80dB                                             | 19.80dB                                             |
| Attenuation (at 20°C) @ 200 MHz       | 29.00dB                                               | 29.00dB                                             | 29.00dB                                             | 29.00dB                                             |
| Attenuation (at 20°C) @ 250 MHz       | 32.80dB                                               | 32.80dB                                             | 32.80dB                                             | 32.80dB                                             |
| RETURN LOSS                           |                                                       |                                                     |                                                     |                                                     |
| Return loss @ 1 MHz                   | 20.00dB                                               | 20.00dB                                             | 20.00dB                                             | 20.00dB                                             |
| Return loss @ 4 MHz                   | 23.00dB                                               | 23.00dB                                             | 23.00dB                                             | 23.00dB                                             |
| Return loss @ 10 MHz                  | 25.00dB                                               | 25.00dB                                             | 25.00dB                                             | 25.00dB                                             |
| Return loss @ 16 MHz                  | 25.00dB                                               | 25.00dB                                             | 25.00dB                                             | 25.00dB                                             |
| Return loss @ 25 MHz                  | 24.30dB                                               | 24.30dB                                             | 24.30dB                                             | 24.30dB                                             |
| Return loss @ 31.25 MHz               | 23.60dB                                               | 23.60dB                                             | 23.60dB                                             | 23.60dB                                             |
| Return loss @ 100 MHz                 | 20.10dB                                               | 20.10dB                                             | 20.10dB                                             | 20.10dB                                             |
| Return loss @ 200 MHz                 | 18.00dB                                               | 18.00dB                                             | 18.00dB                                             | 18.00dB                                             |
| Return loss @ 250 MHz                 | 17.30dB                                               | 17.30dB                                             | 17.30dB                                             | 17.30dB                                             |
| ELECTRICAL                            |                                                       |                                                     |                                                     |                                                     |
| Characteristic imp. (1-100 MHz)       | 100 ±15Ω                                              | 100 ±15Ω                                            | 100 ±15Ω                                            | 100 ±15Ω                                            |
| Characteristic imp. (100-250 MHz)     | 100 ±20Ω                                              | 100 ±20Ω                                            | 100 ±20Ω                                            | 100 ±20Ω                                            |
| Conductor DC resistance @ 20°C        | < 950hm/km                                            | < 950hm/km                                          | < 950hm/km                                          | < 950hm/km                                          |
| Mutual capacity @ 1kHz                | < 1500pF/m                                            | < 1500pF/m                                          | < 1500pF/m                                          | < 1500pF/m                                          |
| OPERATIONAL                           |                                                       |                                                     |                                                     |                                                     |
| Application                           | Indoor                                                | Indoor                                              | Outdoor                                             | Outdoor                                             |
| Fire Class                            | D <sub>ca</sub>                                       | E <sub>ca</sub>                                     | F <sub>ca</sub>                                     | F <sub>ca</sub>                                     |
| MECHANICAL                            |                                                       |                                                     |                                                     |                                                     |
| Colour                                | White                                                 | Grey                                                | Black                                               | Brown                                               |
| Length (m)                            | 305m                                                  | 305m                                                | 100m                                                | 100m                                                |
| Min. bending radius - single/repeated | 8xDmm                                                 | 8xDmm                                               | 8xDmm                                               | 8xDmm                                               |