

Horizontal Cabling Category 6



| | |
|---|------|
| Category 6 4PR LSZH UTP Horizontal Cable | 5.18 |
| Category 6 4PR PVC UTP Horizontal Cable | 5.20 |
| Category 6 2x4PR UTP Horizontal 'Shotgun' Cable | 5.22 |
| Category 6 4PR LSZH S/FTP Horizontal Cable | 5.24 |
| Category 6 4PR LSZH/PVC F/UTP Horizontal Cable | 5.26 |

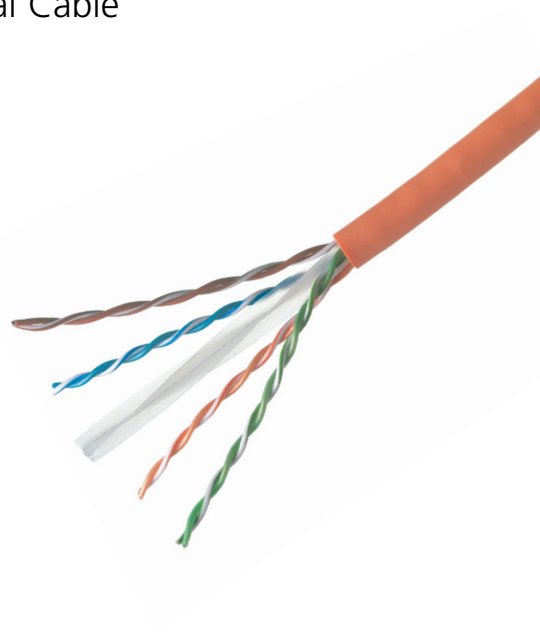
Horizontal Cabling

Category 6 Horizontal Cable

Category 6 4PR LSZH UTP Horizontal Cable

A crucial component of ADC KRONE's impedance matched TrueNet structured cabling solution. This cable guarantees Category 6 performance ensuring maximum network speed, data throughput and efficiency.

TrueNet LSZH horizontal cable is available in standard 305m boxes and 1000m reels and has a fire-rating of IEC 60332-1.



Features

- Performance exceeding Category 6 specifications up to 250MHz
- Ensures zero-bit errors, removing the need for Ethernet to re-transmit data packets and ensures data integrity
- Maximum throughput, reliability and performance in your IT network
- Third party certification at component level
- Covered by the TrueNet System Warranty

Ordering Information

| Description | Catalogue Number |
|--|------------------|
| Cable Horizontal Category 6 LSZH, UTP 305m Reel-in-a-Box, Orange | TN6TZ1-ORMB |
| Cable Horizontal Category 6 LSZH, UTP 1000m Reel, Orange | TN6TZ1-ORM6 |

Other cable types and colours are available upon request and subject to minimum order quantities.

Horizontal Cabling

Category 6 Horizontal Cable

Category 6 4PR LSZH UTP Horizontal Cable

Electrical Data

| | |
|----------------------------------|--------------|
| DC resistance at 20°C (max) | 9.38Ω / 100m |
| DC resistance unbalanced (max) | 2% |
| Mutual capacitance at 20°C (max) | 5.6nF / 100m |
| Operating voltage (max) | 300 V DC |
| Worse case cable skew | 25 ns / 100m |
| Nominal velocity of propagation | 69% |

Construction

| | |
|--------------------------|--------------------------|
| Conductor | 24 AWG solid bare copper |
| Insulation | 100% polyolefin |
| Separator | 100% polyolefin |
| Jacket | Low Smoke Zero Halogen |
| Nominal outside diameter | 6mm |

Environmental

| | |
|-----------------------|--------------|
| Transport and storage | -20° to 75°C |
| Installation | 4° to 50°C |
| Operation | -20° to 75°C |

Compliances

| | |
|----------------------|--|
| Flammability | IEC 60332-1 |
| Smoke density | IEC 61034 |
| Acid gas | IEC 60754-1 |
| pH | IEC 60754-2 |
| Testing requirements | ISO/IEC 11801:2002 2nd edition (ref: IEC 61156 series) ANSI/TIA/EIA 568-B.2.1 EN 50173:2002 (ref: EN 50288 series) |

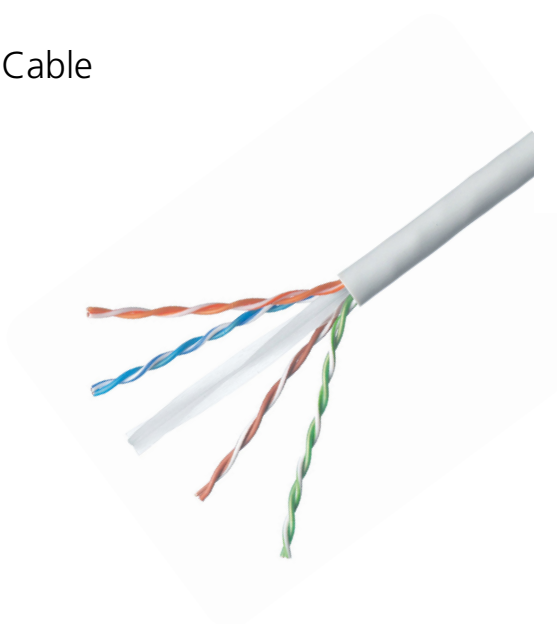
Horizontal Cabling

Category 6 Horizontal Cable

Category 6 4PR PVC UTP Horizontal Cable

A crucial component of ADC KRONE's impedance matched TrueNet structured cabling solution. This cable guarantees Category 6 performance ensuring maximum network speed, data throughput and efficiency.

TrueNet PVC horizontal cable is available in standard 305m boxes and 1000m reels and has a CM fire-rating better than IEC 60332-1.



Features

- Performance exceeding Category 6 specifications up to 250MHz
- Ensures zero-bit errors, removing the need for Ethernet to re-transmit data packets and ensures data integrity
- Maximum throughput, reliability and performance in your IT network
- Third party certification at component level
- Covered by the TrueNet System Warranty

Ordering Information

| Description | Catalogue Number |
|---|------------------|
| Cable Horizontal Category 6 PVC, UTP 305m Reel-in-a-Box, Grey | TN6TR-LSMB |
| Cable Horizontal Category 6 PVC, UTP 1000m Reel, Grey | TN6TR-LSM6 |

Other cable types and colours are available upon request and subject to minimum order quantities.

Horizontal Cabling

Category 6 Horizontal Cable

Category 6 4PR PVC UTP Horizontal Cable

Electrical Data

| | |
|----------------------------------|--------------|
| DC resistance at 20°C (max) | 9.38Ω / 100m |
| DC resistance unbalanced (max) | 2% |
| Mutual capacitance at 20°C (max) | 5.6nF / 100m |
| Operating voltage (max) | 300 V DC |
| Worse case cable skew | 25 ns / 100m |
| Nominal velocity of propagation | 69% |

Construction

| | |
|--------------------------|-------------------------------|
| Conductor | 24 AWG solid bare copper |
| Insulation | 100% polyolefin |
| Separator | 100% polyolefin |
| Jacket | Lead-free flame retardant PVC |
| Nominal outside diameter | 6.0mm |

Environmental

| | |
|-----------------------|--------------|
| Transport and storage | -20° to 75°C |
| Installation | 4° to 50°C |
| Operation | -20° to 75°C |

Compliances

| | |
|----------------------|--|
| Flammability | IEC 60332-1 |
| Testing requirements | ISO/IEC 11801:2002 2nd edition (ref: IEC 61156 series) |
| | ANSI/TIA/EIA 568-B.2.1 |
| | EN 50173:2002 (ref: EN 50288 series) |

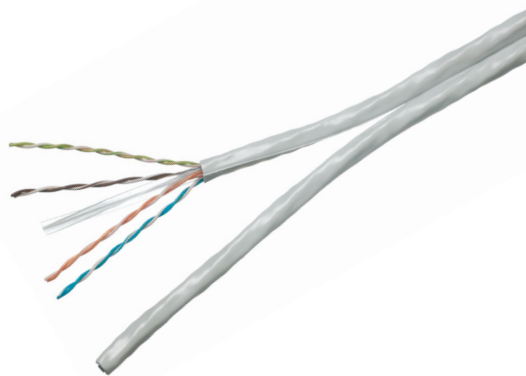
Horizontal Cabling

Category 6 Horizontal Cable

Category 6 2x4PR UTP Horizontal 'Shotgun' Cable

A key component of ADC KRONE's impedance matched TrueNet structured cabling solution. This 'shotgun' cable can be used in installations where time and cost of pulled cables is a key consideration – as two cables can be pulled at once.

Available as PVC or LSZH in standard 500m reels and has a fire-rating better than IEC 60332-1.



Features

- Performance exceeding Category 6 specifications up to 250MHz
- 2x4PR configuration reduces installation costs
- Ensures zero-bit errors, removing the need for Ethernet to re-transmit data packets and ensures data integrity
- Maximum throughput, reliability and performance in your IT network
- Third party certification at component level
- Covered by the TrueNet System Warranty

Ordering Information

| Description | Catalogue Number |
|---|------------------|
| Cable Horizontal Category 6 LSZH, 2x4PR UTP 500m Reel, Orange | TN6TZ1X2-ORM3 |
| Cable Horizontal Category 6 PVC, 2x4PR UTP 500m Reel, Grey | TN6TMX2-LSM3 |

Horizontal Cabling

Category 6 Horizontal Cable

Category 6 2x4PR UTP Horizontal 'Shotgun' Cable

Electrical Data

| | |
|----------------------------------|--------------|
| DC resistance at 20°C (max) | 9.38Ω / 100m |
| DC resistance unbalanced (max) | 2% |
| Mutual capacitance at 20°C (max) | 5.6nF / 100m |
| Operating voltage (max) | 300 V DC |
| Worse case cable skew | 25 ns / 100m |
| Nominal velocity of propagation | 69% |

Construction

| | |
|--------------------------|---|
| Conductor | 24 AWG solid bare copper |
| Insulation | 100% polyolefin |
| Separator | 100% polyolefin |
| Jacket LSZH | Low Smoke Zero Halogen IEC 61034; IEC 60754-1 & -2 |
| Jacket PVC | Lead-free flame retardant PVC |
| Nominal outside diameter | 6 x 13mm |

Environmental

| | |
|-----------------------|--------------|
| Transport and storage | -20° to 75°C |
| Installation | 4° to 50°C |
| Operation | -20° to 75°C |

Compliances

| | |
|----------------------|--|
| Flammability | IEC 60332-1 |
| Testing requirements | ISO/IEC 11801:2002 2nd edition (ref: IEC 61156 series) ANSI/TIA/EIA 568-B.2.1 EN 50173:2002 (ref: EN 50288 series) |



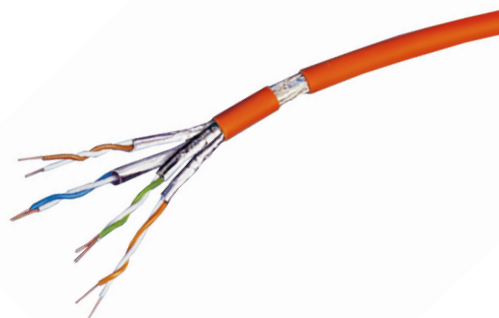
Horizontal Cabling

Category 6 Horizontal Cable

Category 6 4PR LSZH S/FTP Horizontal Cable

A crucial component of ADC KRONE's impedance matched TrueNet structured cabling solution. This cable guarantees Category 6 performance ensuring maximum network speed, data throughput and efficiency.

TrueNet LSZH horizontal cable is available in standard 1000m reels single, or 500m shotgun and has a fire-rating of IEC 60332-3 and EN 50266-2-4.



Features

- Performance exceeding Category 6 specifications up to 250MHz
- Ensures zero-bit errors, removing the need for Ethernet to re-transmit data packets and ensures data integrity
- Maximum throughput, reliability and performance in your IT network
- Third party certification at component level
- Covered by the TrueNet System Warranty

Ordering Information

| Description | Catalogue Number |
|---|------------------|
| Cable Horizontal Category 6 LSZH, S/FTP 1000m Reel, Orange | 7053 3 262-55 |
| Cable Horizontal Category 6 LSZH, S/FTP 500m Reel Shotgun, Orange | 7053 3 662-54 |

Horizontal Cabling

Category 6 Horizontal Cable

Category 6 4PR LSZH S/FTP Horizontal Cable

Technical data

| | |
|--------------------------|----------|
| Copper conductor | AWG 23 |
| Fire load | 0.57MJ/m |
| Halogen-free | Yes |
| Maximum tensile strength | 145N |
| Outer diameter | 7.4mm |
| Weight | 58kg/km |

Electrical Data

| | |
|--------------------------------------|------------------------------------|
| DC resistance at 20°C (max) | 7.3Ω / 100m |
| DC resistance unbalanced (max) | 1% |
| Insulation resistance | > 5000 mΩ x km |
| Impedance Z_0 at 0.064 MHz | 125 Ω ± 20% |
| Impedance Z_0 at 1 - 100 MHz | 100 Ω ± 15% |
| Impedance Z_0 at 101 - 250 MHz | 100 Ω ± 18% |
| Transfer impedance | < 10 mΩ per metre at 10 MHz |
| Longitudinal conversion loss dB/ref. | Length = 1000 m: > 46 dB at 64 kHz |
| Longitudinal conversion loss dB/ref. | Length = 100 m: > 40 dB at 1 MHz |
| Longitudinal conversion loss dB/ref. | Length = 100 m: > 20 dB at 100 MHz |
| Mutual capacitance | 43 pF/m |
| Capacitance unbalance to ground | 1000 pF/km |
| Nominal velocity of propagation | 0.79% |
| Propagation delay ≥ 10 MHz | 4.2 ns/m |
| Worst case cable skew | 4 ns/100m |

Mechanical Characteristics

| | |
|---|------------------------|
| Cable insulation | LSZH |
| Sheath material | FRNC |
| Max. temperature range during installation | 0°C up to +50 °C |
| Max. operating temperature | -20 up to +60°C |
| Min. bend radius for single flexure | 40 mm (over flat side) |
| Min. bend radius during installation or pulling | 60 mm (over flat side) |

Horizontal Cabling

Category 6 Horizontal Cable

Category 6 4PR LSZH/PVC F/UTP Horizontal Cable

A crucial component of ADC KRONE's impedance matched TrueNet structured cabling solution. This cable guarantees Category 6 performance ensuring maximum network speed, data throughput and efficiency.

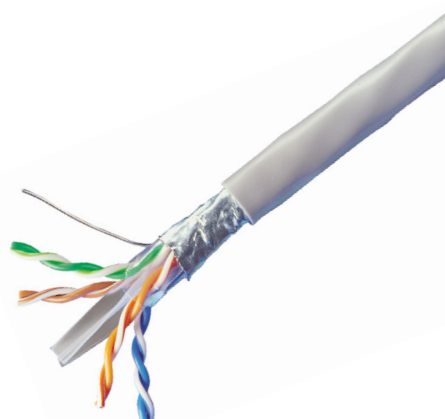
This TrueNet LSZH horizontal cable is available in standard 500m or 1000m and also as 500m shotgun.

Features

- Performance exceeding Category 6 specifications up to 250MHz
- Ensures zero-bit errors, removing the need for Ethernet to re-transmit data packets and ensures data integrity
- Maximum throughput, reliability and performance in your IT network
- Covered by the TrueNet System Warranty

Standards:

ISO 11801, EN 50288-2-1, EN 50173, IEC 61156-5-1, EIA/TIA 568-A and B.



Ordering Information

| Description | Catalogue Number |
|---|------------------|
| Cable Horizontal Category 6 LSZH, F/UTP 1000m Reel, Orange | 7053 3 232-75 |
| Cable Horizontal Category 6 LSZH, F/UTP 500m Reel, Orange | 7053 3 232-74 |
| Cable Horizontal Category 6 LSZH, F/UTP 500m Reel Shotgun, Orange | 7053 3 632-74 |
| Cable Horizontal Category 6 PVC, F/UTP 1000m Reel, Grey | 7053 3 221-75 |
| Cable Horizontal Category 6 PVC, F/UTP 500m Reel, Grey | 7053 3 221-74 |

Horizontal Cabling

Category 6 Horizontal Cable

Category 6 4PR LSZH/PVC F/UTP Horizontal Cable

Electrical Data

| | |
|-------------------------------------|--|
| Mean impedance | 100 + 5 Ω |
| Propagation delay difference (skew) | < 45 ns |
| DC resistance | $\leq 187.6 \Omega/\text{km}$ |
| Capacitance unbalance to ground | $\leq 1600 \text{ pF/km}$ |
| Dielectric strength | 700 V AC/1 min |
| Insulation resistance | $\geq 5000 \text{ M}\Omega \times \text{km}$ |
| Current carrying capacity at 60°C: | |
| - all conductors simultaneously | 0.175A |
| - screen | 5A |
| Coupling attenuation: | |
| - from 30 to 100 MHz | $\geq 55 \text{ dB}$ |
| - from 100 MHz to 1 GHz | $\geq 55 - 20 \log f/100$ |

Construction

| | |
|------------------------------------|------------|
| Nominal outside diameter | 6.9mm |
| Nominal outside diameter (shotgun) | 7 x 14.8mm |

Environmental

| | |
|--------------------------|--|
| Storage temperature | -40°C to +70°C |
| Operating temperature | -20°C to +60°C |
| Installation temperature | 0°C to +50°C (24 hours prior to installation, store the cable at 20°C \pm 5°C) |

Compliances

| | |
|-------------|-------------|
| Fire rating | IEC 60332-1 |
|-------------|-------------|

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TrueNet® Structured Cabling