

# NKE6A-E6E6*

**Rugged CAT6A cable with retractable shell and TRUE1 locking mechanism**

The etherCON® TRUE1 cable was developed for professional Ethernet connections in harsh mechanical and environmental conditions. It combines a rugged TRUE1 housing design with high data performance, Power-over-Ethernet capability, and secure locking for both mobile and fixed installations.

The retractable front housing, internal locking mechanism, integrated strain relief, and optional color coding support fast, secure, and service-friendly handling. At the same time, the platform provides a shielded and durable solution for demanding network and AV environments.

## Features and Benefits

- CAT6A assembled cable connector or connector components incl. RJ45 for professional Ethernet applications
- Up to 10 Gbit/s
- PoE++
- Retractable front shell – all parts stay on the cable
- Internal locking for high mechanical robustness
- TRUE OUTDOOR PROTECTION with IP65 / IP66 / IP67
- Optional Replaceable Sealing Cap
- UV-resistant materials


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- ✓ Optional color coding rings

## Ordering Information

| Article name | Type |
|---|---|
| NKE6A-E6E6-M0075 | etherCON TRUE 1 10G cable assembly 0,75m |
| NKE6A-E6E6-M00120 | etherCON TRUE 1 10G cable assembly 1,20m |

## Technical Information

| Product | |
|---|---|
| Title | NKE6A-E6E6-M00075 (75 cm length)<br>NKE6A-E6E6-M00120 (120 cm length) |
| Product family | etherCON® |
| Connection type | RJ45 |
| Gender | male |


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| Electrical | |
|---|---|
| Data rate | 10 Gbit/s |
| Component performance, ISO/IEC 11801-1 | CAT6A |
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| Channel performance, ISO/IEC 11801-1 | Class Ea |
| Channel performance, ANSI/TIA-568.2-D | CAT6A |
| Power over Ethernet | 100 W, PoE type 4 class 8 in acc. IEEE 802.3bt |
| Frequency range | 1-500 MHz |
| Contact resistance | < 20 mΩ |
| Dielectric strength | 1 kV DC |
| Insulation resistance | > 0,5 GΩ |
| Rated voltage | ≤ 57 V |

| Mechanical | |
|---|---|
| Lock retention force | > 250 N |
| Lifetime | 1000 mating cycles |
| Airtightness, unmated, open sealing cap | < 100 Pa @ 1 min +20 kPa; < 10 % @ 1 min ±50 kPa |
| Strain relief | > 120 N |
| Insertion force | < 50 N |
| Withdrawal force | < 50 N |


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| Material | |
|---|---|
| Contact coating | Gold |
| Contact | Bronze (CuSn) |
| Housing | Zinc diecast (ZnAl4Cu1) |
| Housing coating | Nickel |
| Sealing rings | Thermoplastic elastomer (TPE) |
| Sealing cap (optional) | EPDM |
| Clamping Sleeve | Polyamid 66 (PA66) |
| Fixation | Polyketon (PK) |
| Soft Housing | Polyamid (PA) |

| Environmental | |
|---|---|
| Flammability | V0 (excluding cables) |
| UV / ozone resistance | F1 |
| Operating temperature | -30 °C to +80 °C |
| REACH | compliant |
| RoHS | compliant |


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