









# NTE8MR1-TOP-L

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

The etherCON® TRUE1 cable connector has been developed for professional Ethernet connections under harsh mechanical and climatic conditions. It combines a robust TRUE1 housing concept with high data performance, Power over Ethernet capability and secure locking for both mobile and installed applications.

The retractable front shell, 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 resistant solution for demanding network and AV environments.


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## Features & 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 IPx5 / IPx6 / IPx7
- Optionally interchangeable sealing cap
- UV-resistant materials
- Optional color coding rings

## Ordering Information

| Article name | Type |
|---|---|
| NTE8MR1-TOP-S | Cable connector S, Cable diameter 5-7 mm (inkl. RJ45) |
| NTE8MR1-TOP-L | Cable connector L, Cable diameter 7-9 mm (inkl. RJ45) |

## Technical Information


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| Product | |
|---|---|
| Title | NTE8MR1-TOP-L |
| Product Family | etherCON® |
| Connection type | RJ45 |
| Gender | male |

| Electrical | |
|---|---|
| Data rate | 10 Gbit/s |
| Component performance, ISO/IEC 11801-1 | CAT6A |
| Component performance, ANSI/TIA-568.2-D | CAT6A |
| 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 |


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| Mechanical | |
|---|---|
| Cable diameter | 7.0 - 9.00 mm |
| Lock retention force | > 250 N |
| Lifetime | > 1000 mating cycles |
| Protection class: plug-in | IP65 / IP66 / IP67 |
| Protection rating with closed sealing cap | IP65 / IP66 / IP67 |
| Insertion force | < 50 N |
| Withdrawal force | < 50 N |
| Strain relief | > 120 N |

| 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) |


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


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