

NTE8MR1-TOP-S

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.

Features & Benefits

- ✓ CAT6A assembled cable connector or connector components incl. RJ45 for professional Ethernet applications

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- 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

Product	
Title	NTE8MR1-TOP-S
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
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

Mechanical	
Cable diameter	5.0 – 7.0 m
Lock retention force	> 250 N
Lifetime	1000 mating cycles
Airtightness, unmated, open sealing cap	yes
Insertion force	< 50 N
Withdrawal force	< 50 N
Strain relief	> 120 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)
Mounting	Polyketon (PK)
Soft Housing	Polyamid (PA)

Environmental	
Flammability	V0
UV / ozone resistance	F1
Operating temperature	-30 to +80 °C
REACH	compliant
RoHS	compliant
Protection class	IPx5 / IPx6 / IPx7

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