Rugged ethernet connectivity

etherCON® **TRUE1**® connector series

10 GBIT/S

CAT6A



ENGINEERED TO PERFORM

NEUTRIK®

etherCON® **TRUE1®**
Rugged ethernet connectivity



★ UNIQUE DESIGN
★ HIGHLY RELIABLE
★ UNMATCHED QUALITY
★ PROVEN TECHNOLOGY
★ MADE IN EUROPE

Built for harsh environments. Ready for high-performance Ethernet.

etherCON® TRUE1® expands the TRUE1® platform into professional Ethernet connectivity. Developed for modern network-based AVL systems, it combines high-speed data transmission, robust shielding and outstanding mechanical reliability with true outdoor capability.

Supporting CAT6A transmission up to 10 Gbit/s and PoE type 4 class 8 up to 100 W, etherCON® TRUE1® is designed for demanding applications where signal integrity, power delivery and mechanical robustness are equally critical. Its compact, shielded and ruggedized design makes it an ideal solution for OEM integration as well as for mobile and installed professional applications.

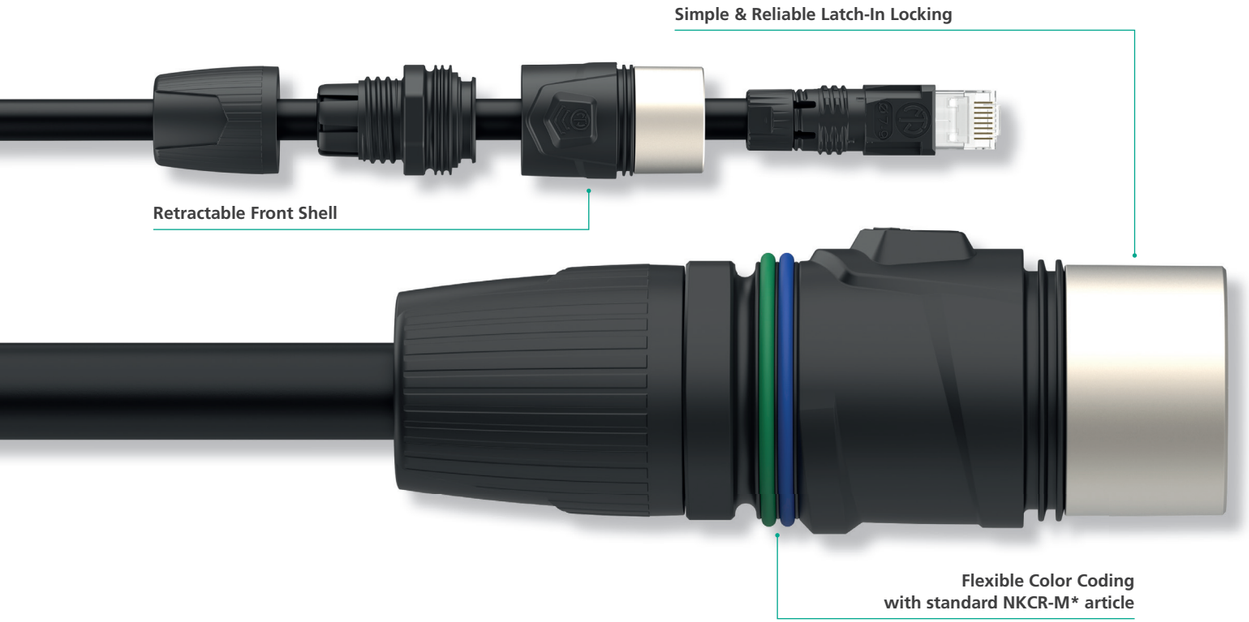


TRUE OUTDOOR PROTECTION

MADE IN EUROPE

etherCON® **TRUE1®** Value propositions

etherCON® TRUE1® combines ease of handling with uncompromising performance. Its key advantages can be structured into two core dimensions: Ease of Use and Performance.





EASE OF USE

Simple & Reliable Latch-In Locking
The TRUE1® data connector series features a newly developed latch-in locking mechanism. The intuitive latch-in system provides clear tactile and haptic feedback during mating, ensuring users immediately to recognize a secure connection.
The locking system guarantees reliable retention under vibration and mechanical stress, while enabling fast and straightforward handling during setup and teardown operations.

Flexible Color Coding
Clear color coding options to ensure maximum operational safety and easy identification.

Retractable front shell
The unique connector design allows to fully retract the shell, providing compatibility with standard RJ45 receptacles. This feature allows flexible and universal usage in various applications, removing the risk and frustration of lost shells.

Standard D-Size Integration
The chassis follows the industry-standard D-Size format, allowing seamless integration into standard D-Size cut-outs.
This ensures mechanical compatibility with established device platforms and eliminates the need for special panel designs.

Replaceable Sealing Cap
The chassis sealing cap is fully replaceable without exchanging the entire chassis or sealing components.
This service-oriented design extends product lifetime, reduces maintenance effort and simplifies field repairs.

PERFORMANCE

CAT6A transmission
up to 10 Gbit/s according to ISO 11801

PoE type 4 class 8
up to 100 W according to IEEE 802.3bt

etherCON® **TRUE1**®
True outdoor protection

As part of the TRUE1® family, etherCON® TRUE1® delivers genuine outdoor performance with IP65, IP66 and IP67 protection in mated condition or closed sealing cap.

etherCON® TRUE1® extends professional Ethernet connectivity into harsh and demanding environments. The connector platform is designed for IP65 / IP66 / IP67 protection, 1440 hours salt spray resistance, UV-resistant materials and a rugged shielded mechanical construction.

This makes etherCON® TRUE1® suitable for network-based AV systems exposed to vibration, moisture, dust and challenging field conditions.

IP65 / IP66 / IP67 · UV RESISTANT · CORROSION RESISTANT · 10 GBIT/S · CAT6A · SUPER ROBUST · EASY TO CONNECT

UV-RESISTANT

All external materials are made from UV-resistant components, ensuring long-term durability in outdoor applications.

CORROSION-RESISTANT

Designed for harsh environments and verified by 1440 hours salt spray testing, ensuring excellent corrosion resistance.

INGRESS PROTECTION

IPX5 / IPX6 / IPX7 protection in mated condition for reliable operation in demanding outdoor environments

INGRESS PROTECTION

IP6X dust protection preventing dust ingress.



etherCON® **TRUE1**®
Cable connectors



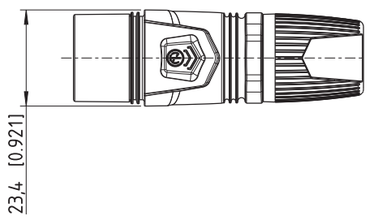
OPTIONAL REPLACEABLE SEALING CAP

NTE8MR1-TOP-*

The etherCON® TRUE1® cable connector is optimized for reliable Ethernet connectivity in professional applications where data integrity and mechanical robustness are essential. Its shielded design, rugged locking concept and retractable protective shell ensure dependable operation under demanding field conditions.

- Ruggedized and dirt-protected CAT6A ethernet connection system
- Supports 10 Gbit/s and PoE++ up to 100 W
- Dust and water resistant according to IP65, IP66, and IP67 in mated condition
- Retractable front shell – all parts stay on the cable
- Shielded. Reliable. Outdoor ready.
- Inner locking for enhanced mechanical robustness
- Optional replaceable sealing cap

TRUE OUTDOOR PROTECTION



ORDERING INFORMATION

etherCON® **TRUE1**® CONNECTORS

	Type
NTE8MR1-TOP-S	Cable connector S, cable diameter 5-7 mm (incl. RJ45)
NTE8MR1-TOP-L	Cable connector L, cable diameter 7-9 mm (incl. RJ45)

TECHNICAL DATA

CABLE CONNECTORS

ELECTRICAL	
Data Rate	10 Gbit/s
Component Transmission Power, ISO/IEC 11801-1	CAT6A
Component Transmission Power, ANSI/TIA-568.2-D	CAT 6A
Channel Transmission Power, ISO/IEC 11801-1	Class Ea
Channel Transmission Power, ANSI/TIA-568.2-D	CAT 6A
Power over Ethernet	100 W, PoE type 4 class 8 according to IEEE 802.3bt
Frequency Range	1-500 MHz
Contact Resistance	< 20 mΩ
Dependency Resistance	1 kV DC
Insulation Resistance	> 0.5 GΩ
Nominal Voltage	≤ 57 V

MECHANICAL	
Cable diameter	NTE8MR1-TOP-S for cable diametre 5.0-7.0 mm / NTE8MR1-TOP-L for cable diametre 7.0-9.0 mm
Locking force	> 250 N
Service life	1000 mating cycles
Insertion force	< 50 N
Withdrawal force	< 50 N
Strain relief	> 120 N

MATERIAL	
Contact plating	Gold
Contacts	Bronze (CuSn)
Housing	Zinc diecast (ZnAl4Cu1)
Housing plating	Nickel
Sealing rings	Thermoplastic elastomer (TPE)
Sealing cap (optional)	EPDM
Clamping sleeve	Polyamide 66 (PA66)
Fixation	Polyketone (PK)
Soft housing	Polyamide (PA)

ENVIRONMENTAL	
Corrosion resistance	1440 h
Flammability	V0
UV/Ozone resistance	F1
Protection class	in mated condition IP65, IP66 and IP67
Operating temperature	-30 to +80 °C
REACH	compliant
RoHS	compliant

ORDERING INFORMATION

etherCON® **TRUE1**® CABLES



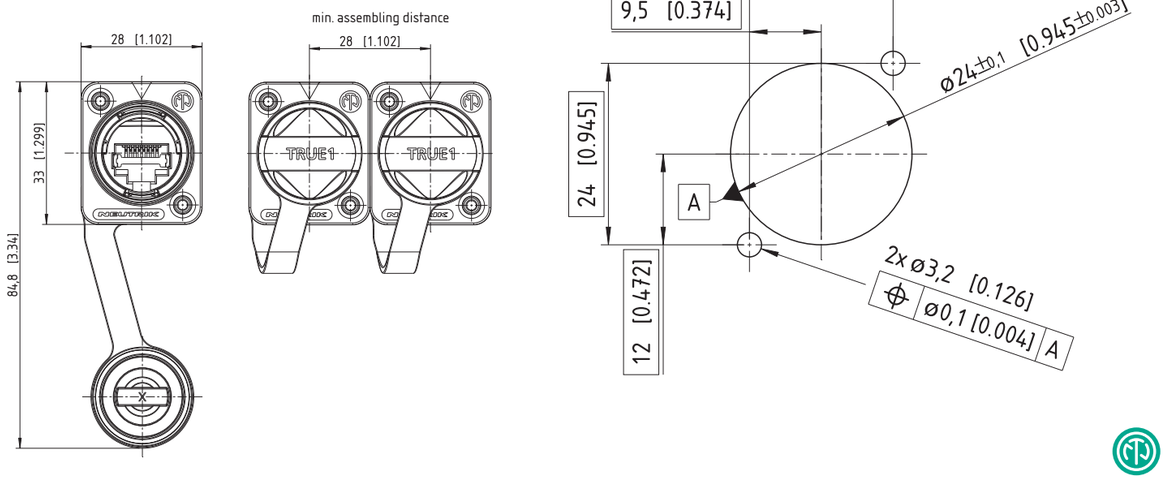
	Type
NKE6A-E6E6-M00075	etherCON® TRUE1® 10G cable assembly 0.75 m
NKE6A-E6E6-M00120	etherCON® TRUE1® 10G cable assembly 1.20 m

etherCON® **TRUE1**®
Chassis connectors



etherCON® TRUE1® chassis connectors combine compact D-Size integration with shielded CAT6A performance and rugged outdoor capability. The chassis concept supports professional integration where reliability, environmental robustness and mechanical protection are key requirements.

- Ruggedized and dirt-protected CAT6A ethernet connection system
- Supports 10 Gbit/s and PoE++ up to 100 W
- Dust and water resistant according to IP65, IP66, and IP67 in mated condition
- D-Size
- Shielded. Reliable. Outdoor ready.
- Accommodates standard RJ45 connectors



TECHNICAL DATA

CHASSIS CONNECTORS

ELECTRICAL	
Data Rate	10 Gbit/s
Component Transmission Power, ISO/IEC 11801-1	CAT6A
Component Transmission Power, ANSI/TIA-568.2-D	CAT 6A
Channel Transmission Power, ISO/IEC 11801-1	Class Ea
Channel Transmission Power, ANSI/TIA-568.2-D	CAT 6A
Power over Ethernet	100 W, PoE type 4 class 8 according to IEEE 802.3bt
Frequency Range	1-500 MHz
Contact Resistance	< 20 mΩ
Dependency Resistance	1 kV DC
Insulation Resistance	> 0.5 GΩ
Nominal Voltage	≤ 57 V

MECHANICAL	
Installation direction	Front mounting
Locking holding force	> 250 N
Service life	1000 mating cycles
Insertion force	< 50 N
Withdrawal force	< 50 N
Tightening torque	0.4 Nm – 0.6 Nm

MATERIAL	
Contact plating	Gold
Contacts	Brass
Flange	EPDM
Insert	Zinc diecast (ZnAl4Cu1)
Housing plating	Nickel
Housing	PA66
Sealing cap	EPDM

ENVIRONMENTAL	
Corrosion resistance	1440 h
Flammability	V0
UV/Ozone resistance	F1
Protection class	in mated condition , IP66 and IP67
Operating temperature	-30 to +80 °C
REACH	compliant
RoHS	compliant

ORDERING INFORMATION

etherCON® **TRUE1**® CHASSIS

	Type
NTE8FDFS-6A-TOP	Chassis outdoor

etherCON® **TRUE1**® Accessories



ORDERING INFORMATION

etherCON® **TRUE1**® ACCESSORIES

	Type
NOR-*	Color coding ring for SCTD-TOP sealing cap UNICORN TRUE1® chassis
NKCR-M*	Color coding ring for cable connectors
SCTD-TOP	Sealing cap UNICORN TRUE1® chassis
SCTM-TOP	Protection cap UNICORN TRUE1® with leash (no locking)
SLCTM-TOP	Sealing locking cap for cable connectors

0	1	2	3	4	5	6	7	8	9		
										NOR-*	0-black / 1-brown / 2-red / 3-orange / 4-yellow / 5-green / 6-blue / 7-violet / 8-grey / 9-white
										NKCR-M*	0-black / 1-brown / 2-red / 3-orange / 4-yellow / 5-green / 6-blue / 7-violet / 8-grey / 9-white

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