



PRODUCT MANUAL

etherFLEX® TOP CAT5e Cable | NKE5E-E1E1-*

1 PRODUCT EXAMPLE



NKE5E-E1E1-0200

The product etherFLEX® TOP Cable uses a 20 m cable.

It is assembled with etherCON® TOP connectors and sealing caps on both ends. It contains exclusive re-usable velcro straps and unshrunk tubes for labeling.

2 GENERAL

Introducing the etherFLEX® TOP CAT5e ethernet cable assemblies expertly fitted with etherCON® TOP Connectors on each end, completed with Sealing Caps for TRUE OUTDOOR PROTECTION (TOP).

Crafted with a highly flexible ethernet cable, etherFLEX® ensures secure connections even in challenging and harsh environments. This cable system is an ideal solution for outdoor and indoor ethernet applications, offering reliability and performance.

Available in various lengths to suit your specific needs, our etherFLEX® TOP CAT5e network cable assemblies are the perfect choice for seamless connectivity in any setting to transmit up to 1 Gbit/s.

The ratings of the products are only guaranteed by using the corresponding NEUTRIK® etherCON® TOP chassis connectors.

A TECHNICAL DATA

Product	
Title	NKE5E-E1E1-*
Product family	etherFLEX®
Connection type	etherCON® TOP
Electrical	
Contact resistance	≤ 200 mΩ (initial) ≤ 20 mΩ (deviation to initial)
Insulation resistance	≥ 0.5 MΩ @ 0.5 kVDC
Dielectric strength	Contact to contact: ≥ 1 kV Contacts to screen: ≥ 1.5 kV
Rated current per contact	≤ 1.0 A
Rated voltage	≤ 57 VDC





Electrical

Transmission performance	CAT5e acc. to TIA/EIA 568A component specifications CAT5e acc. to ISO/IEC 11801 component specifications
Frequency range	1 - 100 Mhz
Power over Ethernet	PoE type 4 class 8 acc. IEEE 802.3bt
Shielding	S/UTP

Mechanical

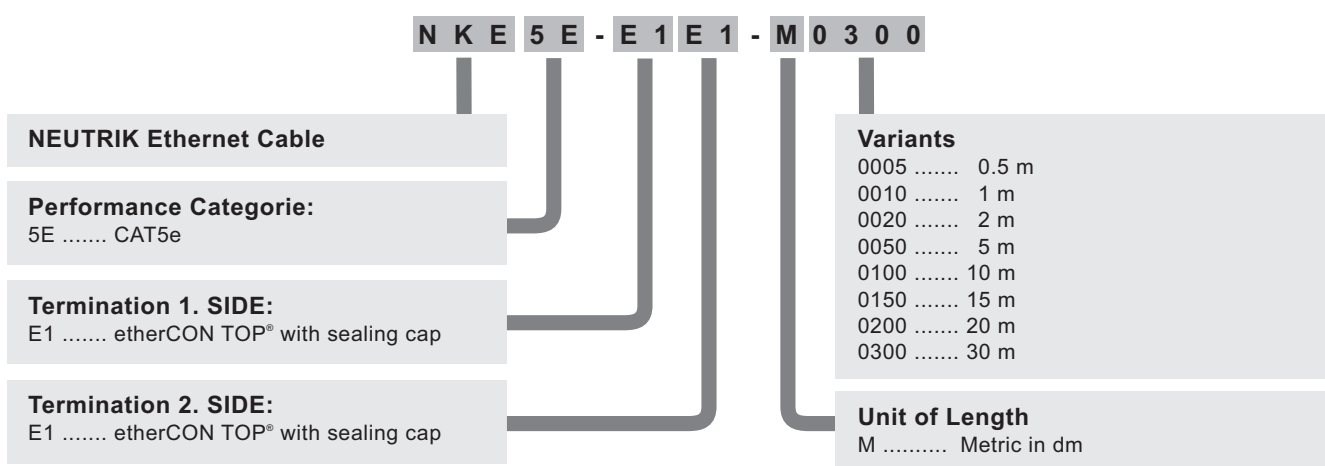
Lifetime	min. 750 mating cycles
Bending radius	fixed laying: ≥ 28 mm flexible laying: ≥ 56 mm flexible laying with forced guidance: ≥ 105 mm
Bending cycles	Drag chain: $\geq 3\,000\,000$ @ 4.5 m chaing length, 3 m/s velocity and 3 m/s ² acceleration (cable but not kink protection)

B ASSEMBLY HEAT SHRINK TUBING

The shrink tubing serves as an optional protective device for a label applied to the cable by a third person.

- Shrinking of the shrink tubing is not necessary for the operation of the cable
- Shrinking of the heat shrinkable tubing is done at your own risk.
- The manufacturer is not liable for any damage to the cable caused by processing the shrink tubing.
- Shrinking of the shrink tubing with open flame and hot air devices without temperature adjustment is not permitted.
- Permissible temperature range for shrinking is 70°C to 90°C.
- The cable must be free of tension during shrinking.

C „TYPE KEY“ EXAMPLE FOR ARTICLES



D DISPOSAL



Electronic devices are recyclable materials and do not belong in household waste. Dispose of the product at the end of its service life in accordance with the applicable legal regulations.





E APPLICATION AND SAFETY INSTRUCTIONS



Read the operating instructions carefully, and observe the safety instructions in particular.

If you do not follow the safety instructions and the information on proper handling in this operating manual, we accept no liability for any resulting personal injury or damage to property.

Damage to property. In addition, the warranty/guarantee will become void in such cases.

3 Application and Safety Instructions

A Assembly

- Replacement parts are suitable only when used in combination with the designated components.
- The product's characteristics are guaranteed only in the intended combination.

B Application

- The product is compatible with the use of all Neutrik etherCON® chassis (with the exception of CAT6 products).
- When used with other products, suitability and safety must be assessed and appropriate safety measures must be taken if necessary.
- The product is not intended for use in medical applications.
- The product is not intended for use in potentially explosive or flammable environments.

C Operation

- Before plugging in, check the contact area for dry surfaces.
- Product surfaces may cause burns at elevated ambient temperatures. Ensure the use of appropriate protective equipment.
- Neutrik products should only be combined with products from Neutrik Group brands.

D Cleaning

- Clean only with dry and lint-free materials or compressed air.
- The product must not be cleaned while under load. The product may only be cleaned while it is not connected to any voltage and without the use of cleaning agents.

E Damages

- Handle products with care.
- In case of visible damages, check the suitability of the product for use.

i More Information on the website

<https://www.neutrik.com/en/product/etherflex-top-cat5e-cable-assemblies>



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www.neutrik.com

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