



etherFLEX® TOP CAT5e Cable Assemblies

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.

Features & Benefits

- ✓ 1 Gbps transmission performance & CAT5E properties guaranteed up to 30 m cable length
- ✓ 100 W Power over Ethernet according to IEEE 802.3bt Type 4 Class 8
- ✓ Unique RJ45 optimized for mating cycles and Power over Ethernet
- ✓ Highly flexible cable for patching applications
- ✓ Robust & Rugged locking connector shell

- ✓ IP65 & IP67 protection class in mated condition with NEUTRIK® etherCON® TOP airtight
- ✓ IP65 protection class when sealing cap (SCMX-TOP) is closed
- ✓ UV resistant
- ✓ Corrosion resistant
- ✓ Flame resistant cable & connectors for indoor usage
- ✓ Halogen free cable to protect humans and buildings (no toxic or corrosive gases are released)
- ✓ Oil resistant cable to ensure flexibility and elongation properties
- ✓ Tear resistant re-usable velcro straps included
- ✓ Unshrunk transparent shrink tube for customer labeling
- ✓ Robust PUR cable jacket: Enhanced mechanical strength, superior chemical and UV resistance, and lasting flexibility—ideal for harsh and dynamic environments

Article Variants

Article name	Details	Order code
NKE5E-E1E1-M0005	etherFLEX® TOP CAT5e 0.5 m with etherCON® TOP (m) (m) IP65 & IP67	NKE5E-E1E1-M0005
NKE5E-E1E1-M0010	etherFLEX® TOP CAT5e 1 m with etherCON® TOP (m) (m) IP65 & IP67	NKE5E-E1E1-M0010
NKE5E-E1E1-M0020	etherFLEX® TOP CAT5e 2 m with etherCON® TOP (m) (m) IP65 & IP67	NKE5E-E1E1-M0020
NKE5E-E1E1-M0050	etherFLEX® TOP CAT5e 5 m with etherCON® TOP (m) (m) IP65 & IP67	NKE5E-E1E1-M0050
NKE5E-E1E1-M0100	etherFLEX® TOP CAT5e 10 m with etherCON® TOP (m) (m) IP65 & IP67	NKE5E-E1E1-M0100
NKE5E-E1E1-M0150	etherFLEX® TOP CAT5e 15 m with etherCON® TOP (m) (m) IP65 & IP67	NKE5E-E1E1-M0150
NKE5E-E1E1-M0200	etherFLEX® TOP CAT5e 20 m with etherCON® TOP (m) (m) IP65 & IP67	NKE5E-E1E1-M0200
NKE5E-E1E1-M0300	etherFLEX® TOP CAT5e 30 m with etherCON® TOP (m) (m) IP65 & IP67	NKE5E-E1E1-M0300



Technical Information

Product	
Title	NKE5E-E1E1-*
Product family	etherFLEX®
Connection type	etherCON® TOP

Electrical	
Contact resistance	$\leq 200 \text{ m}\Omega$ (initial) $\leq 20 \text{ m}\Omega$ (deviation to initial)
Insulation resistance	$\geq 0.5 \text{ M}\Omega$ @ 0.5 kVDC
Dielectric strength	Contact to contact: $\geq 1 \text{ kV}$ Contacts to screen: $\geq 1.5 \text{ kV}$
Rated current per contact	$\leq 1.0 \text{ A}$
Rated voltage	$\leq 57 \text{ VDC}$
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: $\geq 28\text{ mm}$ flexible laying: $\geq 56\text{ mm}$ flexible laying with forced guidance: $\geq 105\text{ mm}$
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)
Cable Jacket	Polyurethane (PUR)

Environmental	
Flame resistance	V-0 acc. to UL94 (Connectors/Shell) V-2 acc. to UL94 (RJ45) Vertical flame propagation for cable acc. to IEC 60332-2-2 (Cable)
Standard compliance	2011/65/EU ISO/IEC 11801-1 Ed. 1.0:2017 IEC 60603-7-3 Ed.2.0:2010 IEC 60512-99-002 Ed.2.0:2022 IEC 60512-9-3:2011 Flame resistance acc. to UL94, IEC 60332-2- Oil resistance acc. to IEC 60811-404, DIN EN 50363-10-2 Halogen free acc. to IEC 60754-1, DIN VDE 0472 part 815 PWIS acc. to PV 3.10.7 (PAINT WETTING IMPAIRMENT SUBSTANCES FREEDOM)
Ingress protection class	IP65 acc. to IEC 60529:1989+A1:1999+A2:2013 when sealing cap is closed IP65 & IP67 acc. to IEC 60529:1989+A1:1999+A2:2013 in mated condition with etherCON® TOP airtight
Temperature range	installation: -20 °C to +60 °C fixed laying: -30 °C to +80 °C flexible laying: -30 °C to +70 °C flexible laying with forced guidance: -20 °C to +60 °C