

# TRUE OUTDOOR PROTECTION

XLR TOP  
powerCON® TRUE1 TOP  
etherCON® TOP



**NEUTRIK®**

# SETTING STANDARDS

Neutrik Headquarters in Schaan, Principality of Liechtenstein





### **NEUTRIK® – the premium brand of the Neutrik Group**

Neutrik is the worldwide leading supplier of professional connectors and connector systems for the entertainment industry and other complex special applications.

Located in The Principality of Liechtenstein, in the middle of Europe, Neutrik is synonymous with the development, production and distribution of innovative products which have set the standards. No matter whether a rock band or a lighting designer, an industrial application, a broadcast studio or LED Display application – Neutrik offers a superior quality and reliable connector solution for every application.

### **STATE-OF-THE-ART MANUFACTURING**

More than 1000 highly trained employees, modern production facilities and standardized workflows ensure superior quality. Since the start in 1975 Neutrik produced more than 1 billion connectors that have set standards in functionality, technical reliability and durability around the world.

Neutrik's management system and processes are certified according to ISO 9001 and comply to the environmental standards RoHS, REACH and Sony Green Partner.

### **TRUE OUTDOOR PROTECTION**

Neutrik's new range of TRUE OUTDOOR PROTECTION products for demanding outdoor applications continues to set standards. Approved for outdoor use according UL50E. UV resistant and IP65 rated.



**TRUE  
OUTDOOR  
PROTECTION**

# TRUE OUTDOOR PROTECTION

etherCON® TOP



powerCON® TRUE1 TOP



# XLR TOP



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TRUE OUTDOOR PROTECTION

NEUTRIK

# TRUE OUTDOOR PROTECTION



## TRUE OUTDOOR PROTECTION

The highly innovative entertainment industry is permanently evolving accompanied by increasing demands on interconnection systems. Particularly environmentally sealed connectors are highly requested for heavy-duty and harsh environment applications of entertainment equipment like PA systems, signs and LED screens or lightings.

Neutrik took up the challenge and developed a new line of TRUE OUTDOOR PROTECTION (TOP) products for demanding outdoor applications. This new range includes the popular powerCON TRUE1, etherCON and XLR series. These ruggedized sealed connectors feature not only IP protection but also UV resistance approved according to UL50E.



UV



IP

### GLOBAL ENCLOSURE STANDARDS

For safety reasons, connectors have to be protected from outside influences like dust, foreign objects, moisture, water and sunlight. The most common and globally recognized standards for outdoor applications are IEC 60529 with the IPxx ingress protection levels and the UL50E / NEMA 250 enclosure type rating. Although these standards have the same goal to identify an enclosure capacity to withstand environmental influences, they differ in their definition, testing and pass criteria. The UL50e standard requires an UV test for thermoplastic materials which does not form part of the IP test. Neutrik have ensured that the new TOP range of products met both internationally recognized standards.

To ease equipment qualification Neutrik designed and qualified their TOP line to the connector standards IEC 61076-2-103, IEC 60320, UL 1977, UL 498. But in addition Neutrik took into account the special requirements for wet locations and outdoor applications and qualified the TOP line also according UL50E.

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ORDERING INFORMATION	
NE8MX-TOP	Rugged RJ45 cable connector carrier
NE8FDV-TOP	Rugged D-size chassis connector
NE8FDP-TOP	Rugged D-size feedthrough
NE8FDH-C5E-TOP	Rugged D-size PCB mount
SE8FD-TOP	Outdoor assembly kit

- Heavy-duty sealed RJ45 system for harsh environment
- Rugged cable connector carrier accepting most common RJ45 plugs
- D-sized receptacles for PCB mount and IDC termination or as feedthrough adapter
- Outdoor protection acc. IP65 and UL50E
- Uses high impact UV resistant materials per UL
- Sealing when disconnected by attached cover
- Class D or CAT5e acc. ISO/IEC 11801 and TIA/EIA 568B







NAC3FX-TOP



NAC3MX-TOP



NAC3PX-TOP



NAC3MPX-TOP



NAC3FPX-TOP

## powerCON® TRUE1 TOP

### ORDERING INFORMATION

<b>NAC3FX-TOP</b>	Locking Power-In cable connector
<b>NAC3MX-TOP</b>	Locking Power-Out cable connector
<b>NAC3PX-TOP</b>	Appliance inlet-outlet combination
<b>NAC3MPX-TOP</b>	Appliance inlet connector
<b>NAC3MPX-WOT-TOP</b>	Appliance inlet connector, without insulation divider
<b>NAC3FPX-TOP</b>	Appliance outlet connector
<b>NAC3FPX-ST-TOP</b>	Appliance outlet connector, screw terminals
<b>SCNAC-PX</b>	Rubber sealing cover for NAC3PX-TOP
<b>SCNAC-MPX</b>	Rubber sealing cover for NAC3MPX-TOP
<b>SCNAC-FPX</b>	Rubber sealing cover for NAC3FPX-TOP

- True mains connector with breaking capacity (CBC)
- Designed to be engaged and disengaged in normal use when live or under load
- Lockable 16A (acc. ENEC, VDE) / 20A (acc. UL) connector
- Complete system with inlet and outlet connectors
- Outdoor protection acc. IP65 and UL50E enclosure type 4
- Uses high impact, UV resistant materials per UL
- Certified according IEC 60320 and UL 498



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## XLR TOP

### ORDERING INFORMATION

<b>NC3FX-TOP</b>	Heavy duty female 3 pole XLR cable connector
<b>NC5FX-TOP</b>	Heavy duty female 5 pole XLR cable connector
<b>NC3MX-TOP</b>	Heavy duty male 3 pole XLR cable connector
<b>NC5MX-TOP</b>	Heavy duty male 5 pole XLR cable connector
<b>NC3FDX-TOP</b>	Heavy duty, female 3-pole XLR chassis connector
<b>NC5FDX-TOP</b>	Heavy duty, female 5-pole XLR chassis connector
<b>NC3MDX-TOP</b>	Heavy duty, male 3-pole XLR chassis connector
<b>NC5MDX-TOP</b>	Heavy duty, male 5-pole XLR chassis connector
<b>SCFDX-TOP</b>	Sealing cover for NC3FDX-TOP
<b>SCMDX-TOP</b>	Sealing cover for NC3MDX-TOP

- Heavy-duty sealed XLR connector range
- 3 and 5 pin chassis and cable connector
- Outdoor protection acc. IP65 and UL50E
- Maintain sealing when in use and when disconnected
- Uses high impact UV resistant materials per UL
- Gold plated contacts
- Optional dust protection cap



**SUPERIOR  
QUALITY**

**UNMATCHED  
RELIABILITY**

**IP65  
RATED**

**UV  
RESISTANT**



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