


PRO AUDIO & CONNECTIVITY SYSTEMS

Engineered for Live
Sound, Touring,
Broadcast & Production

- High-Performance Cables
 - Fiber
 - Power
 - Network
 - Custom Engineering
- Manufactured in the USA
for Over 30 Years





Engineered Connection. Proven Performance.

Nemal designs and manufactures high-performance connectivity systems for environments where reliability is non-negotiable. From touring stages and recording studios to broadcast trucks, stadiums, and themed entertainment, Nemal products support mission-critical audio, video, power, and data systems.

For more than three decades, Nemal has combined advanced cable engineering, precision machining, and custom assembly under one roof in Miami, Florida. We work closely with integrators, engineers, and production teams to deliver solutions tailored to real-world system requirements.

Our portfolio spans copper, fiber, hybrid, network, and power connectivity — engineered to perform consistently under demanding mechanical and environmental conditions.

Connectivity Solutions for Professional Environments

Nemal connectivity systems are engineered to support the demands of professional audio, broadcast, and production environments — from portable touring systems to permanent infrastructure.

Industry List

- Live Sound & Touring
- Broadcast & Sports Production
- Studio & Music Production
- Networked AV & Control
- Theme Parks & Entertainment
- Permanent Installations



Live Sound & Touring



Studio & Music Production



Network AV & Control



Designed for Integrated Production Systems

Modern production environments rely on integrated signal paths across audio, power, network, and fiber. Nermal products are engineered to support complete system architectures used in live events, studios, broadcast facilities, and installed environments. From microphone capture and stage distribution to IP-based audio networks, fiber transport, and power delivery, Nermal connectivity solutions are designed to work together as a unified system.

XLR Assemblies for Live Sound, Studio & Broadcast

XLR assemblies are fundamental to nearly every professional audio system. From capturing vocals and instruments to routing intercom and broadcast feeds, Nema1 XLR cables deliver consistent signal integrity and mechanical reliability across touring, studio, and broadcast environments.

Each assembly is manufactured using Nema1 low-noise microphone cable and genuine Neutrik connectors. Standard lengths are stocked for rapid delivery, and custom lengths are manufactured to meet precise system requirements.

Subsection: Available Configurations

- 3-pin, 4-pin, 5-pin, 6-pin, and 7-pin
- Nickel or black/gold connector options
- Straight or right-angle configurations
- Standard and custom lengths available



ATTRIBUTE	SPECIFICATION
Conductor	Tinned copper
Shielding	Braided
Jacket	Flexible TPR
Connector	Neutrik XX series
Flex Performance	Touring-grade

Complementary Products

Microphone cable • Audio snakes • XLR adapters • Custom panels

[View Product Details](#)

Microphone & DMX Cables for Stage, Studio & Lighting Systems

Microphone and DMX cables are deployed across nearly every professional production environment. From capturing clean audio signals in studios and on stage to controlling lighting systems in theaters, venues, and touring rigs, these cables must deliver consistent performance under demanding conditions.

Nemal microphone cables are engineered for low noise, flexibility, and durability, while Nemal DMX cables are designed to meet 110Ω impedance requirements for reliable digital lighting control. Standard lengths are stocked, and custom lengths are manufactured to meet precise system layouts.

Available Configurations

- 3-pin, 4-pin, 5-pin, 6-pin, and 7-pin
- Nickel or black/gold connector options
- Straight or right-angle configurations
- Standard and custom lengths available



Technical Specifications

Nemal P/N	CABLE TYPE	CONDUCTORS	SHIELD	JACKET	OD (in)	CAP PF/FT
MC424P	Star-Quad Mic	4 × 24 AWG	Braided	TPR	.242	39
MC220R	Rugged Mic	2 × 20 AWG	Braided	TPR	.260	30
2401DS	DMX 1-Pair	2 × 24 AWG	Braided	PVC	.210	12
2402D	DMX 2-Pair	4 × 24 AWG	Foil + Drain	PVC	.210	12

[View Product Details](#)

Audio Snakes for High-Density Signal Routing

Audio snakes simplify complex signal routing by consolidating multiple balanced lines into organized, manageable runs. They are widely used in live sound, studios, broadcast environments, and touring racks where efficiency, clarity, and reliability are essential.

Nemal audio snakes are available in analog and AES/EBU digital configurations, with individually shielded and numbered pairs to reduce crosstalk and simplify identification. Assemblies are manufactured to exact length requirements for each application.

Available Configurations

- Analog audio snakes: 2 to 54 pairs
- AES/EBU digital snakes: 2 to 24 pairs
- Indoor and touring-grade jackets available

Technical Specifications

MODEL	TYPE	PAIR COUNT	OD (IN)	WEIGHT (LB / 1000 FT)	SHIELD
SN0424	Analog	4	.390	74	Foil
SN0824	Analog	8	.510	138	Foil
SN1224	Analog	12	.611	186	Foil
SN2424	Analog	24	.846	348	Foil
SND0824	AES/EBU	8	.590	170	Foil

Complementary Products

XLR assemblies • DT-12 systems • Custom panels



[View Product Details](#)

speakON® Speaker Assemblies for Touring & Installations

High-current speaker connections are critical to the performance of professional PA systems. From compact monitor setups to large-scale line arrays, speakON assemblies must deliver reliable power transfer while withstanding constant handling and environmental stress.

Nema1 speakON assemblies are manufactured using oxygen-free copper conductors and rugged jackets designed for touring and installation environments. Standard lengths are available, with custom lengths manufactured to meet specific stage and rack layouts.

Available Configurations

- NL2, NL4, and NL8 connectors
- 12 AWG and 14 AWG cable options
- Single-channel and multi-channel assemblies

Technical Specifications

MODEL	CONNECTOR	CABLE	AWG	CURRENT RATING
JSP212	NL2	2-conductor	12	30 A
JSP412	NL4	4-conductor	12	50 A
JSP812	NL8	8-conductor	12	50 A

Complementary Products

powerCON assemblies • AV-FLEX cable • Custom panels

[View Product Details](#)



powerCON® & True1 Power Assemblies for Professional Systems

Locking AC power connections are essential in touring, broadcast, and installed AV environments. Nema1 powerCON assemblies provide secure, reliable power distribution for amplifiers, lighting systems, LED walls, and mobile production equipment.

Assemblies are manufactured using Nema1 AV-FLEX cable for maximum flexibility, durability, and environmental resistance. Standard lengths are stocked, and custom assemblies are available to match specific rack and distribution layouts.

Subsection: Available Configurations

- powerCON True1 (16 A)
- powerCON 20 A
- powerCON 30 A / HC
- Blue (power in) and Grey (power out)

Technical Specifications

TYPE	CONNECTOR	CABLE	RATING
True1	NAC3FX-W	AV-FLEX	16 A
20 A	NAC3FCA	AV-FLEX	20 A
30 A	NAC3FC-HC	AV-FLEX	30 A

Complementary Products

speaKON assemblies • Socapex systems • AV-FLEX cable

[View Product Details](#)



AV-FLEX® — The Cable Behind Every Show

AV-FLEX is engineered for environments where cables are handled daily, exposed to harsh conditions, and expected to perform without compromise. From touring power distribution and lighting systems to broadcast and mobile production environments, AV-FLEX delivers exceptional flexibility, durability, and electrical performance.

Designed with specialty elastomeric jackets and high-strand conductors, AV-FLEX supports demanding applications across audio, power, and control systems.

Key Engineering Features

- Up to 10 million flex cycles
- Temperature range: -55 °C to +105 °C
- Resistant to abrasion, oil, moisture, and UV
- Available in 2 to 12 conductors

Technical Specifications

Conductors	AWG	OD (in)	TEMP RATING
2	12	.390	-55 °C to +105 °C
3	12	.427	-55 °C to +105 °C
4	12	.439	-55 °C to +105 °C
8	14	.624	-55 °C to +105 °C
12	10	1.10	-55 °C to +105 °C



Complementary Products

powerCON assemblies • speakON assemblies • Socapex systems

[View Product Details](#)

Built for the Demands of the Road. Trusted Everywhere.

AV-FLEX is trusted across touring productions, broadcast environments, lighting systems, and permanent installations where reliability is critical. Its mechanical strength and environmental resistance allow it to perform consistently under repeated flexing, extreme temperatures, and challenging field conditions.

Whether powering amplifiers, lighting rigs, LED walls, or mobile production systems, AV-FLEX delivers dependable performance where failure is not an option.

Common Applications

- Touring power distribution
- Broadcast and mobile production
- Live sound reinforcement
- Lighting and LED systems
- Permanent installations



Rugged Network Connectivity for AV & Control Systems

Networked audio, video, and control systems depend on stable, interference-resistant data connections. Nema1 network assemblies support Dante, AES67, NDI, and lighting control networks across touring, broadcast, and installed environments.

Using shielded CAT cable and Neutrik etherCON connectors, Nema1 assemblies provide reliable performance in applications where standard IT cabling is not sufficient. Standard lengths are stocked, with custom lengths manufactured to meet exact routing requirements.

Subsection: Available Configurations

- CAT5e and CAT6 shielded assemblies
- Neutrik etherCON connectors
- Multi-channel CAT snakes (3 to 6 channels)
- Outdoor-rated and touring-grade options

Technical Specifications

MODEL	TYPE	SHIELD	JACKET	OD (in)	BANDWIDTH
CAT6-HD	Single	S/FTP	TPR	.245	550 MHz
SN3CAT6	3-channel snake	S/FTP	TPR	.635	550 MHz
SN5CAT6	5-channel snake	S/FTP	TPR	.769	550 MHz

Complementary Products

Fiber systems • AV-FLEX cable • Custom panels

[View Product Details](#)

Fiber Systems for Long-Distance Signal Transport

Fiber optic connectivity is essential for long-distance signal transport in broadcast, touring, and large-venue environments. Nermal fiber systems provide high bandwidth, immunity to electromagnetic interference, and rugged construction for field deployment.

Nermal manufactures opticalCON, FiberFox expanded-beam, and SMPTE hybrid fiber assemblies to support a wide range of professional production applications.

Available Fiber Systems

- opticalCON DUO and QUAD
- FiberFox expanded-beam systems
- SMPTE hybrid camera fiber
- Fiber reels and breakouts

Technical Specifications

System	Fiber Type	Connector	Durability	Application
opticalCON DUO	Duplex	Optical contact	High	Touring, broadcast
opticalCON QUAD	Quad	Optical contact	High	Data-heavy systems
FiberFox	Duplex / Quad	Expanded beam	Extreme	Harsh environments
SMPTE Hybrid	Hybrid	Camera fiber	High	Broadcast cameras

Complementary Products

Network assemblies • DT-12 systems • Custom panels

[View Product Details](#)

DT-12 Multichannel Audio Systems for Broadcast & Sports Production

DT-12 remains the industry standard for high-density audio distribution in broadcast trucks, stadiums, and large-scale live productions. These systems allow rapid deployment of multiple audio channels using a single rugged trunk line.

Nemal manufactures the complete DT-12 ecosystem, including connectors, cable, fanouts, and breakout solutions, ensuring compatibility and durability in demanding production environments.

System Components

- DT-12 connectors (male, female, chassis)
- 12-pair DT-12 cable (indoor and outdoor)
- DT-12 to XLR fanouts
- DT-12 breakout boxes

Subsection: Technical Specifications

COMPONENT	SPECIFICATION
Connector	Machined 37-pin DT-12
Cable	12-pair, foil shielded
Jacket Options	Indoor PVC / Outdoor TPR
Fanouts	12 × labeled XLR
Breakouts	Parallel or terminated



Complementary Products

Audio snakes • Fiber systems • Custom panels

[View Product Details](#)

Socapex Power Distribution for Lighting & Stage Systems

Socapex assemblies provide reliable multi-circuit power distribution for lighting rigs, LED walls, and stage systems. Designed for touring and permanent installations, Nema1 Socapex assemblies support complex power layouts with organized, dependable connections.

Assemblies are manufactured using Nema1 AV-FLEX cable and are available in standard or custom configurations to meet specific power distribution requirements.

Available Configurations

- Socapex male-to-female
- Socapex to powerCON fanouts
- Socapex to Edison fanouts

Technical Specifications

MODEL	CONDUCTORS	AWG	OUTPUTS
JSO19MF	19-pin	12	1:1
JSO19FPM	19-pin	12	6 × powerCON
JSO19FEM	19-pin	12	6 × Edison

Complementary Products

powerCON assemblies • AV-FLEX cable • Custom panels

[View Product Details](#)



XLR Adapters for Audio, Intercom & Production Systems

Professional production environments often require adapting between different XLR standards used across audio, intercom, lighting, and camera systems. Nermal XLR adapters provide reliable pin conversion and mechanical durability for use in live sound, broadcast, touring, and installed environments.

Manufactured using high-quality connectors and precision wiring, Nermal adapters ensure dependable performance during setup, operation, and teardown.

Available Adapter Types

- 3-pin to 5-pin XLR
- 4-pin to 3-pin (intercom applications)
- 5-pin gender changers
- 6-pin and 7-pin specialty adapters
- Inline and short-cable formats

Technical Specifications

ADAPTER TYPE	INPUT	OUTPUT	TYPICAL APPLICATION
XLR-3M→5F	3-pin	5-pin	DMX / control
XLR-4F→3M	4-pin	3-pin	Intercom
XLR-7F→5M	7-pin	5-pin	Camera accessories



Complementary Products

Audio snakes • Fiber systems • Custom panels

[View Product Details](#)

Custom Panels & Engineered Connectivity Solutions

Complex production environments often require tailored connectivity solutions. Nemal designs and manufactures custom panels, plates, and engineered assemblies to simplify signal routing, improve system organization, and support long-term reliability.

From broadcast trucks and control rooms to touring racks and permanent installations, Nemal custom solutions integrate audio, power, network, and fiber connectivity into clean, functional layouts.

Engineering Capabilities

- CNC-machined rack panels and wall plates
- Audio, power, network, and fiber integration
- opticalCON, FiberFox, and SMPTE termination
- Hybrid panels combining multiple signal types
- OEM assembly and small-batch production

Technical Specifications

CAPABILITY	DESCRIPTION
CNC Machining	Aluminum and steel panels
Engraving	Permanent labeling
Fiber Integration	opticalCON, FiberFox, SMPTE
Hybrid Systems	Audio, power, data combined



Complementary Products

Fiber systems • DT-12 systems • Network assemblies • Audio snakes

[View Product Details](#)

How to Specify and Order Nema1 Assemblies

Nema1 manufactures assemblies to order, allowing customers to specify the exact configuration required for their system design. This approach supports precise integration across touring, broadcast, studio, and installed environments.

Standard lengths are available for rapid delivery, while custom assemblies are built to meet exact routing, labeling, and environmental requirements.

Ordering Process

Select cable type

2. Choose connector types

3. Specify length

4. Define labeling and color coding

5. Identify environmental requirements

6. Submit drawings for custom projects (if applicable)

Ordering Fields Reference

FIELD	DESCRIPTION
Cable Type	Audio, power, network, fiber
Connector A / B	Type, gender, finish
Length	Feet or meters
Labeling	Printed or engraved
Environment	Touring, indoor, outdoor

Technical Reference Overview

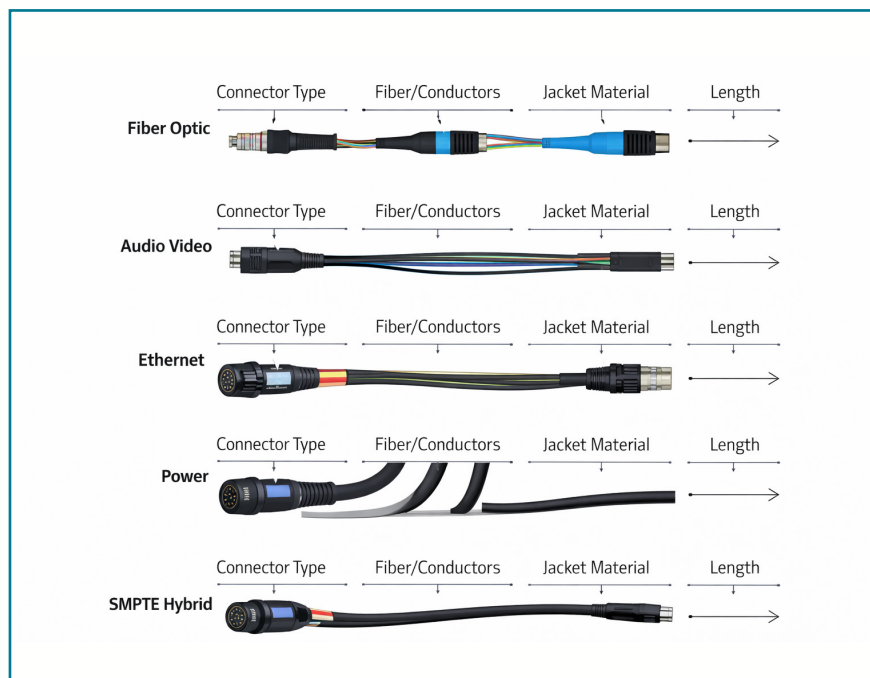
This overview provides quick reference information across Nema1's product families. Detailed specifications are included within each product section throughout the catalog.

Cable Families

CABLE FAMILY	KEY FOCUS
Microphone Cable	Noise rejection, flexibility
DMX Cable	110Ω impedance
Audio Snakes	Pair count and density
AV-FLEX	Flex life and temperature
Fiber Systems	Bandwidth and distance
DT-12 Cable	High-density audio

Connector Families

CONNECTOR	APPLICATION
XLR	Audio and control
speakON	Speaker systems
powerCON	Locking AC power
etherCON	Networked AV
opticalCON	Fiber transport
DT-12	Multichannel audio





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Proven Performance.



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