



SYNTAX® INTERCONNECT

Audio, Broadcast & Lighting



Since 1981, SYNTAX® multipin connectors and application specific cables by Valentini of Rivoli, Italy, have been used in public entertainment; convention centers; exhibitions; sporting events; concerts and live shows; pro audio multipin gear; I/O panels; drive/FX racks; big audio routing; stage & snake boxes; broadcast installations; amp racks & speakers; HMI ballast; stage lighting; pro lighting cables; lighting consoles & equipment... all marketed by industry-leading technical service companies, OEMs, distributors, cable assemblers, system integrators and installers, such as:

Four Star Wire and Cable, Inc is a leading North American Wire, Cable and Connectivity distributor and manufacturer of the MyStarSound brand of Pro Audio, Video, Stage and Lighting Cables. We strive to provide the best of products to all the industries we service and have established quality standards that exceed our customers expectations.

	Series	Pin Configuration(s)	Specs available at lslabcorp.com
	SVK	13, 19, 25, 37, 54, 85, 100 & 150 pins	Panel & inline; IP67 waterproof; MIL-C-5015; gold or silver contacts
	SVS	72 & 101 pins	
	SHD	13, 19, 25, 37, 54, 85, 100 & 150 pins	Roadline: Enhanced, robust, heavy-duty version of the SVK Series
	SV	24 Audio & 6 Video (Coax) Pins	Panel & Inline Audio/Video Hybrid Connectors; gold plated precision contacts
	SMA	122 & 176 pins	Hermaphroditic IP67 panel & inline audio, up to 56 channels; gold plated solder contacts
	SPK	4, 8 & 19 pins CA-COM Loudspeaker	Pro loudspeaker panel & inline; rubber locking ring; CA-COM mateable; silver & gold solder or crimp contacts
	SPK008	8 pin CA-COM Loudspeaker Adapter	Adapter; CA-COM 8 compatible; male one end, female other end
	SB	2, 3, 4, 6, 7, 8 & 9 pins	HMI Ballast & Lamp connector; 400W - 200KW; configurable; bayonet lock & coupling roller; silver plated contacts
	SSX	19, 16 pin UL & Heavy Duty Versions	Lighting connector; Socapex 419 compatible; panel & inline; fast wiring, indestructible; IP67; first make, last break gold or silver plated contacts
	SPX	Single Pole High Amperage Power	Power 400A - 750A; panel & inline; US, EU, UK & AU color codes; IP67;
	SPZ	Connectors	IP2X; silver plated contacts
	Cables	Application Specific Cables	Expertly engineered pro audio & video
	Drums	Cable Drums (featuring optional IO Side Panels)	features; power distribution; data
	Glands	Metric Glands Expand Cable O.D.'s	Glands, standard or spiral flex and metal types
	Tooling	Tooling & Accessories	Contact us for more information

Four Star Wire and Cable, Inc.
Sterling Heights, Michigan 877-789-1626 | Nashville, Tennessee 877-853-8106
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SVK & SHD ROADLINE SERIES AUDIO

13, 19, 25, 37, 54, 85, 100 & 150 pins

Manufactured in Italy 



The audio multipin **SVK & SHD Roadline** Series are MIL-C-5015 compliant and IP-67 water-proof.

Unlike any other multipin connector, the SYNTAX® **SVK Series** backshell's interior has been cleverly designed to be a little wider, providing added room, allowing for easier access and much simpler wiring.



While this innovative feature furnishes help for wiring space even in the smaller pin configurations, it delivers significant impact in 85, 100 & 150 pin configurations.



The **SHD Roadline** is a virtually indestructible version of our world-class **SVK** audio connector series.



SHD's durability and reliability were engineered for the toughest outdoor use.

Key features include IP-67 water-proof connections and an increased number of mating cycles even in the most rigorous conditions. MIL-C-5015 compliant.

The **SHD Roadline** also features bigger coupling roller pins for easier

mating. The locking ring's increased thickness delivers a robust design that prohibits ovalization caused by unintentional blows. Deeper knurling on the hand grip of the oversized locking ring delivers superior mating and de-mating. Specs available at iolabcorp.com.

Please refer to **SVK & SHD Part Number Key** on Page 6.

SVK & SHD SERIES ORDERING OPTIONS

- Gold or Silver Plated Solder or Crimp Contacts
- Gold Plated Combo Crimp+Solder Contacts on 100 & 150 pin Versions
- Panel Mount & Inline, Male & Female Versions
 - Aluminum or Rubber Coated Locking Rings
- Dust Caps feature high-resistance 7 strand stainless steel lanyard with a black, anti-scratch teflon coating

SYNTAX CONNECTOR CLAMPING RANGES

The design of the Syntax multipin backshell enables wider O.D. support for cables.

Thread Size	Clamping Range MM	Clamping Range INCHES	SVK / Pin Count	Gland Designator
M 20 x 1.5	6 - 12	.236 - .472	13, 19	MH
M 20 x 1.5	10 - 14	.394 - .551	13, 19	MI
M 25 x 1.5	6 - 13	.236 - .512	25	MJ
M 25 x 1.5	13 - 18	.512 - .709	25	ML
M 32 x 1.5	7 - 15	.276 - .590	37, 54	MN
M 32 x 1.5	11 - 21	.433 - .827	37, 54	MM
M 32 x 1.5	18 - 25	.709 - .984	37, 54	MO
M 40 x 1.5	15 - 23	.590 - .905	85, 100, 150	MQ
M 40 x 1.5	19 - 28	.748 - 1.102	85, 100, 150	MP
M 40 x 1.5	22 - 32	.866 - 1.26	85, 100, 150	MR
Example: SVK054FVRSSXXNT = 54 pin F inline, rubber locking ring, Ag solder installed				

Please refer to **SVK & SHD** Part Number Key on Page 6. Specs available at iolabcorp.com.

SVK & SHD SERIES ORDERING OPTIONS

- Gold or Silver Plated Solder or Crimp Contacts
- Gold Plated Combo Crimp+Solder Contacts on 100 & 150 pin Versions
 - Panel Mount + Inline, Male & Female Versions
 - Aluminum or Rubber Coated Locking Rings
- Dust Caps feature high-resistance 7 strand stainless steel lanyard with a black, anti-scratch teflon coating

SVS SLIMLINE SERIES AUDIO CONNECTOR

72 & 101 pins

Slim line, lower profile high density multipin connector for audio applications.



The **SVS Series** is MIL-C-5015 compliant with an IP-67 water-proof rating.

Highly conductive copper alloy crimp pins and sockets, available with gold plating.



Panel mount and inline cable versions available. Insert layout and wiring lists are available for download on the IOL web site at

iolabcorp.com.

Like the **SVK & SHD**, the **SVS Series** features a connector backshell with a special aluminium alloy with a high scratch-resistant black hard anodized powder coated finish.

Tough & reliable - like all SYNTAX connectors. Marked knurling on the circumference of the **SVS** locking-ring provides optimal grip and easy coupling and de-coupling, especially in tight quarters. An audible click indicates locking is complete. The thicker locking-ring delivers higher resistance to shocks.

The aluminium housing for the neoprene insert does not protrude from the edge of the locking-ring, avoiding ovalization due to accidental blows. The extra wide backshell allows for easier wiring. Robust coupling roller pins on locking rings increases durability & reliability.



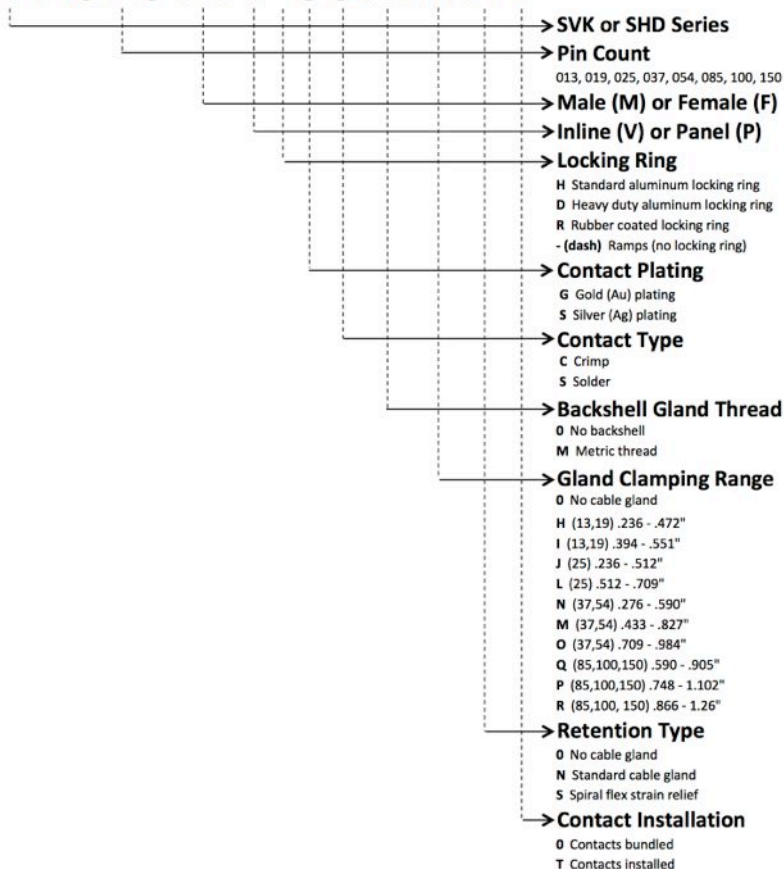
Vibration-proof stainless steel safety pin prohibits insert rotation. Contact shoulders mate firmly at installation and are solidly retained by the insulator.

Please refer to **SVS** Part Number Key on Page 7. Specs available at iolabcorp.com.

SVS SERIES ORDERING OPTIONS

- Gold Plated Crimp Contacts
- Panel Mount + Inline, Male & Female Versions
- Aluminum or Rubber Coated Locking Rings
 - Wide Cable O.D. Clamping Range
- Dust Caps feature high-resistance 7 strand stainless steel lanyard with a black, anti-scratch teflon coating

SVK019MV-SSMHNT

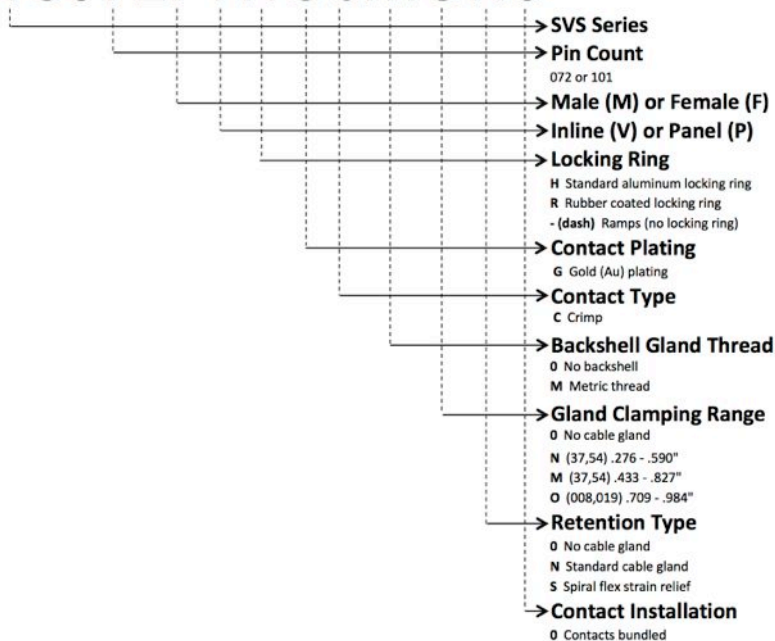


NOTES

- All Syntax SVK & SHD part numbers have 15 characters
- Combo Gold Crimp+Solder Pins standard on 85, 100 & 150 pin versions (GC)
- Crimp contacts are bundled. Specs available at iolabcorp.com.

PART NUMBER KEY

SVS072FVHGCMON0



NOTES

- All Syntax SVS part numbers have 15 characters
- Gold Crimp Pins standard on both 72 & 101 pin versions (GC)
- Crimp contacts are bundled. Specs available at iolabcorp.com.

SSX SERIES PRO LIGHTING CONNECTORS

19 pins | UL Version



The SYNTAX® **SSX UL** listed Series is designed for professional lighting applications.

Fully compatible with industry standard Socapex 419 type designs.

Robust thick wall machined aluminum alloy. Uber durable anodized or high quality painted finish. Thermoplastic rubber insert enables removable contacts, either crimp or solder. Panel, inline & spider versions.

IP67 watertight when mated. UL E 302043.

Electrical safety and UL compliance achieved by internal insulation of the shells, featuring a safety insulating sleeve to prevent electric shock, as well as “first make last break” ground contacts.

Grounding rings allow bussing of ground contacts. Locking rings and backshells designed for better ergonomic handling.

- Underwriter's Laboratories Listed E 302043
- Anti-Rotation Set Screw
- Ingress protection: IP67-IEC 529 norms
- Salt atmosphere resistance: 96 h IEC 68-21-11
- Operating temperature: -55°C to +125°C
- Shell material: machined aluminum alloy
- Anodized or powder coated finish
- Thermoplastic rubber insulators & protection sleeves
- Cable gland on inline versions: Metric M40 thread
- Cable gland on spider versions: Metric M50 thread
- Silver or gold plated removable crimp or solder contacts



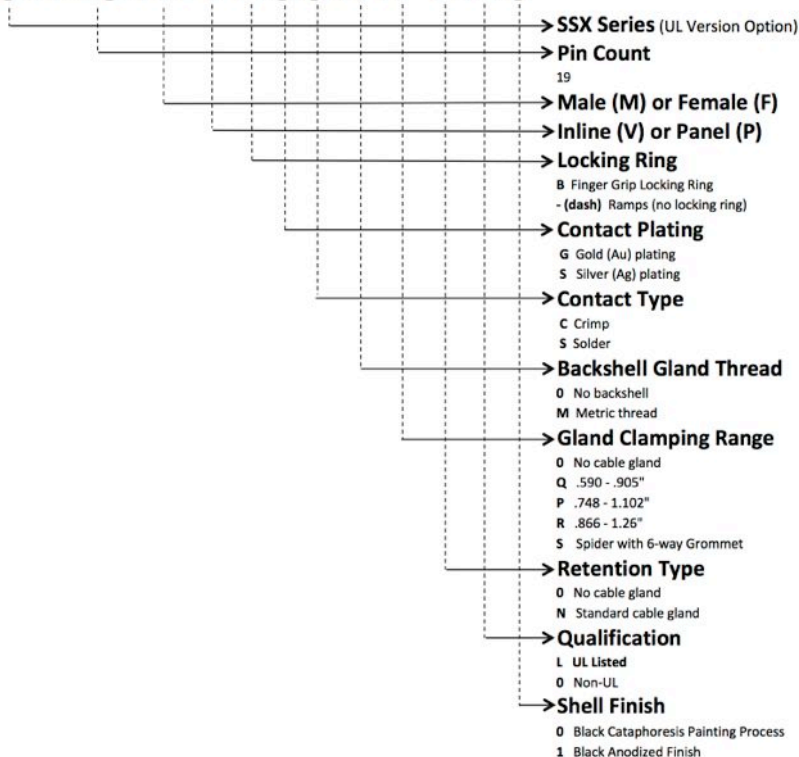
SSX color coded ID locking rings

Please refer to **SSX UL** Part Number Key on Page 9. Specs available at iolabcorp.com.

SSX UL SERIES LIGHTING CONNECTOR

PART NUMBER KEY

SSX19MVBSSMPNLO



NOTES

- All Syntax SSX part numbers have 15 characters
- Please specify bundled or installed solder contacts when ordering
- Crimp contacts are bundled. Specs available at iolabcorp.com.

SSX SERIES PRO LIGHTING CONNECTORS

19 & 16 pins | Heavy Duty Version

SSX Heavy Duty Series 19-pin & 16-pin connectors feature the stables coupling and the fastest wiring possible. Socapex 419 compatible & IP-67 water-proof when mated.

The insert is chloroprene rubber, enabling the use of removable contacts, either crimp or solder.

Electrical safety and UL compliance achieved by internal insulation of the shells, featuring a safety insulating sleeve to prevent electric shock, as well as "first make last break" ground contacts. Grounding rings allow bussing of ground contacts. Locking rings and backshells designed for better ergonomic handling.



SSX 6-way Neoprene SPIDER Gland



SSX SPIDER Assembly



SSX 8-way Neoprene SPIDER Gland



SSX Heavy Duty 16-pin

Please refer to **SSX Heavy Duty** Part Number Key on Page 11.

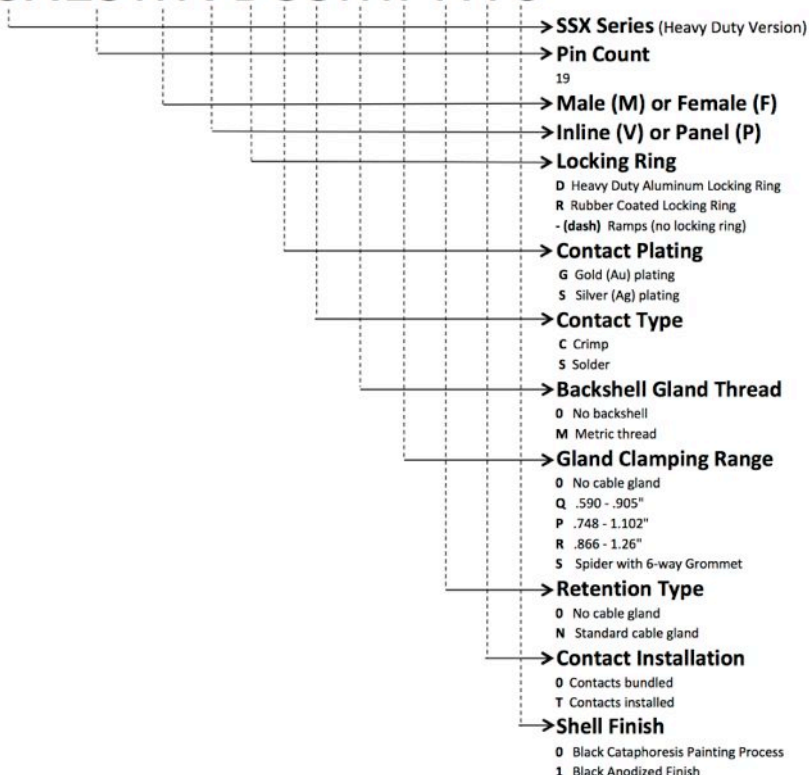
SSX HEAVY-DUTY SERIES ORDERING OPTIONS

- Silver or Gold Plated Crimp or Solder Contacts
- Panel Mount Male or Female 19 & 16-pin Versions
- Inline Versions Features Wide Cable O.D. Clamping Range
 - Finger Grip or Standard Cylindrical Locking Rings
 - Contact Us for 6-way or 8-way SSX Spider Data.
 - Specs available at iolabcorp.com.

SSX HEAVY DUTY LIGHTING CONNECTOR

PART NUMBER KEY

SSX19MVDSSMPNT0



NOTES

- All Syntax SSX part numbers have 15 characters
 - Optional 16 pin Version Available
- Crimp contacts are bundled. Specs available at iolabcorp.com.

SPK SERIES LOUDSPEAKER CONNECTORS

CA-COM 4, 8 & 19 pins

The rugged **SPK Series** CA-COM connector, especially the 8 pin model, has been used extensively in professional speaker installations globally. All **SPK Series** connectors are fully CA-COM compatible. Male or female inline and panel mount versions, silver or gold plated contacts, multiple cable gland support, ramps, aluminum or rubber-coated locking rings.



Note: for 19 pin PA-COM compatible connectors, please refer to the SVK & SHD Roadline Series.

SPK008 CA-COM ADAPTER

The singular SPK008 Adapter cleverly allows two 8 pin CA-COM cables with locking rings to be interconnected, instantly creating an extension cord.

Time & cost saver. Very handy in the toolkit at the install site; e.g., 93' is needed but only 75' cords are at hand.

Male + Female interface available in Ag or Au plated solder contacts (installed). CA-COM compatible.

SPK008 ADAPTER OPTIONS

- 8 Installed Pins, Ag or Au Plated
- One End Male, Other End Female
 - Ramps - No Locking Ring(s)
 - SPK008ADIV-SV (Ag)
 - SPK008ADIV-GD (Au)



SPK008 SERIES ORDERING OPTIONS

- 4, 8 or 19 pins, Silver or Gold Plated installed Solder Contacts
- All Panel Mount or Inline Configurations CA-COM Compatible
 - Optional Locking Ring or Ramps (No Locking Ring)
 - 8 pin Version: Rubber or Aluminum Locking Ring
 - SPK008 Adapter Available as 8 pin Male + Female
 - Specs available at iolabcorp.com.
- Contact Us for Complete Descriptions & Alternate CA-COM Pin Sizes.

PART NUMBER KEY

SPK008FVRSSMMNT

- **SPK Series**
- **Pin Count**
004, 008, 019 (Other Pin Counts upon request)
- **Male (M) or Female (F)**
- **Inline (V) or Panel (P)**
- **Locking Ring**
H Standard aluminum locking ring
R Rubber coated locking ring
- (dash) Ramps (no locking ring)
- **Contact Plating**
G Gold (Au) plating
S Silver (Ag) plating
- **Contact Type**
C Crimp
S Solder
- **Backshell Gland Thread**
Ø No backshell
M Metric thread
- **Gland Clamping Range**
Ø No cable gland
H (004) .236 - .472"
I (004) .394 - .551"
M (008,019) .433 - .827"
N (008,019) .276 - .590"
O (008,019) .709 - .984"
- **Retention Type**
Ø No cable gland
N Standard cable gland
S Spiral flex strain relief
- **Contact Installation**
Ø Contacts bundled
T Contacts installed

NOTES

- All Syntax **SPK** part numbers have 15 characters (except the **SPK008** Adapter)
 - Custom Pin Counts Available Upon Request
- Crimp contacts are bundled. Specs available at iolabcorp.com.
- Please refer to Page 12 for **SPK008 Adapter** product part number ordering information

SMA SERIES HERMAPHRODITIC

122 & 176 pins

The **SMA Series** is derived from the manufacturing of prime quality extruded aluminum alloy. The connector's machined metallic shells are anodized in black to protect the connector from long term heavy usage damage. Suitable for a long distance interface, the **SMA** system also enables the creation of a standard extension cord. All connectors are equipped with protection dust caps.

Inline connectors' retention is ensured by a SKINTOP® plastic compression gland, rated IP-67 water-proof.

The **SMA Series** comes in two different configurations: 122 and 176 contacts, well suited for up to 56 channel connections.

SMA Series solder cup connectors are compatible with the MASS series solder/crimp-type contact connectors.



SMA SERIES ORDERING OPTIONS

- Inline Cable 122 pins + Cable Gland - includes Dust Cap
- Inline Cable 176 pins + Cable Gland - includes Dust Cap
- Panel Mount 122 pins - 2U Square or Rounded Flange - includes Dust Cap
- Panel Mount 176 pins - 2U Square or Rounded Flange - includes Dust Cap

SV SERIES BROADCAST CONNECTOR

24 Audio + 6 HD Coaxial Pins



The unique hybrid Audio/Video **SV Series** connector has been designed for professional broadcasting, especially for outdoor environments and heavy usage applications.

Two contact connections are suited for RG59 coaxial cable. The cable gland on the backshell has been specifically designed to host the combined audio/video cable **7YA08V6SX**.

Specs available at iolabcorp.com.

SV SERIES ORDERING OPTIONS

- Panel Mount Male + Heavy Duty Locking Ring
 - Panel Mount Female
- Inline Female Cable End Connector
- Inline Male + Rubber Locking Ring
- Inline Male + Heavy Duty Locking Ring

SPX/SPZ SERIES POWER CONNECTORS

Single Pole 400A - 750A

The **SPX/SPZ Series** connectors are specifically suited for electrical supply management of 650A continuous, up to 750A intermittent. Many technical details have been improved on the new **SPX/SPZ Series** design to deliver the best in safety and reliability across a variety of rigorous work conditions.



SPX/SPZ SERIES ORDERING OPTIONS

- Line Drain, Line Source, Neutral/Earth
- Panel Drain, Panel Source, Neutral/Earth
- Protective Plastic Caps

SB SERIES HMI BALLAST/LAMP

2 to 9 pins

The **SB Series** connector delivers a high quality, extremely durable and safe connection between HMI Ballast units and lamps. The **SB Series** is fully customizable to specific applications.



SB SERIES ORDERING OPTIONS

- Specified Prior to Quoting; Numerous Insert Arrangements & Pin Counts Available.
- Please Contact Us. Specs available at iolabcorp.com.

APPLICATION SPECIFIC CABLE PRODUCTS

HYBRID CABLES

One cable to better manage multifarious mission-critical, show-stopping signals. Versatile, suitable for parallel controls for light mixing boards. Also used for analog audio cabinets. Specs available at iolabcorp.com.



HYBRID ORDERING OPTIONS

- Power + Digital
- Power + 2 x CAT5E
- Power + 2 x CAT5E x Digital
- Power + 1 x CAT5E + 1 x Video + 2 x Digital
- 6 x Video + 8 x Digital
- Contact Us for Complete Descriptions

ANALOG CABLES

Multipair, crystal-clarity microphone, audio installation and rich sounding instrument cables. Specs available at iolabcorp.com.

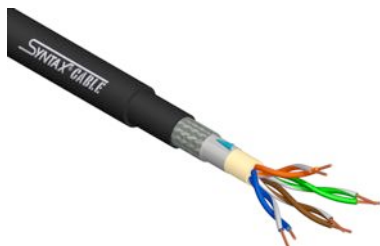


ANALOG ORDERING OPTIONS

- Audio Multipair
- Installation Audio
- Audio Microphone
- Audio Microphone Double Jacketed
- Instrument Cable
- Contact Us for Complete Descriptions

DIGITAL CABLES

Developed for high-standard professional applications in rigorous environments. Single pair, two twisted pairs and multi-pair cables. These cables have been designed per the AES/EBU specification. Includes ruggedized Ethernet.



DIGITAL ORDERING OPTIONS

- Digital Multipair 4, 8, 12 & 16 Pair
- Single Pair Digital for DMX
 - Dual Pair Digital
- Ruggedized Ethernet
- Ruggedized Outdoor Ethernet
- Contact Us for Complete Descriptions

SPEAKER POWER CABLES

Clarity and balance of sound, high conductivity and brilliance to cover the full dynamic range of sound. Specs available at iolabcorp.com.



SPEAKER ORDERING OPTIONS

- 2 Conductor, 11AWG/13AWG/16AWG
- 4 Conductor, 13AWG/16AWG
- 6 or 8 Conductor, 13AWG
- 8 or 16 Conductor, 11AWG
- Contact Us for Complete Descriptions

APPLICATION SPECIFIC CABLE PRODUCTS

VIDEO / BROADCAST CABLES

Designed for standard or high definition video signal. All copper construction enhances signal strength, while high-density shielding protects the signal from internal and external interference (ingress/egress).



VIDEO ORDERING OPTIONS

- 75 ohm Video Installation Cable
- Halogen Free 75 ohm HD Video Installation Cable
- Contact Us for Complete Descriptions

MAIN POWER CABLES

Flexible and easy to handle. Professional cables for lighting, audio and video technology. Durable and highly reliable. The best choice when winding operations are intensive. Specs available at iolabcorp.com.



POWER ORDERING OPTIONS

- 3, 5 or 6 Power Conductors
- 12/19 Conductors, Marked Inner Jackets
- Ruggedized Multicore Power
- Halogen Free Multicore Power
- Contact Us for Complete Descriptions

RUGGED CABLE DRUM SERIES

We enlarged the internal diameter of the drum to make it extremely functional and protect cables from damage caused by winding. Less mess...and less stress!

The SYNTAX® **Cable Drum Series** has an extremely strong structure, thanks to high resistance bent and soldered structural steel tubes. External finish is a high-resistance matte black powdercoat. The handle can be lodged on the side of the external frame, making the cable drum a proper parallelepiped structure without any protrusion to reduce space for shipping.

The **Cable Drum Series** are easy to use and perfect in applications such as recording studios, live entertainment shows, broadcasting, reality video production or sporting events, and are especially useful in a multicore distribution system.

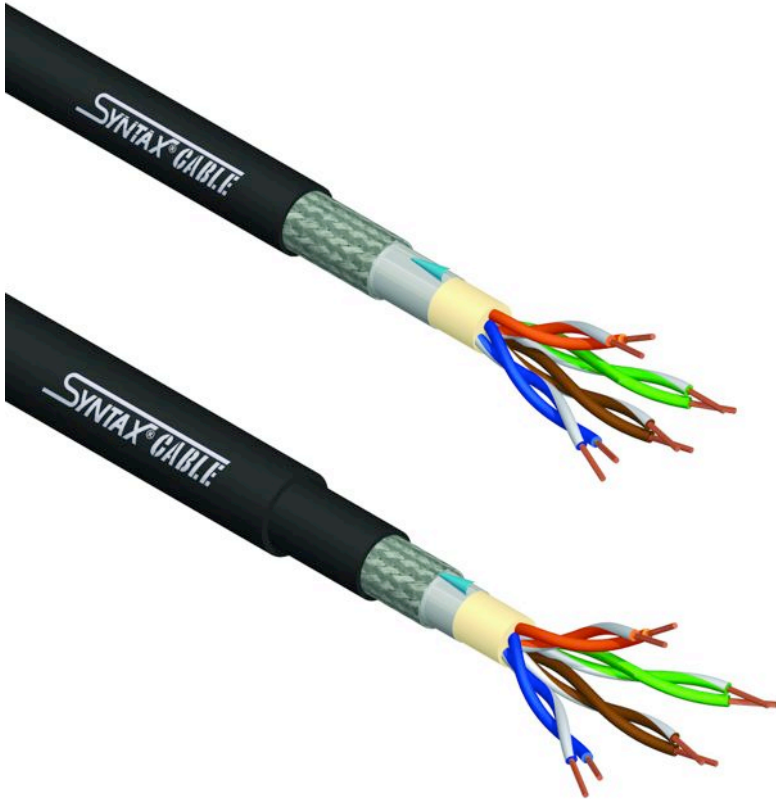


DRUM ORDERING OPTIONS

- 3 Versions of Drum Cable Capacity:
13Kg/28.7lbs | 18Kg/39.7lbs | 21.5Kg/47.4lbs
- 3 Optional I/O Side Plates:
16, 24 or 32 Metal D Shell XLR Connectors
- Specs available at iolabcorp.com.

75YCR190 with optional side plate shown

7XLANCAT5 | 7XLANCAT5PUR

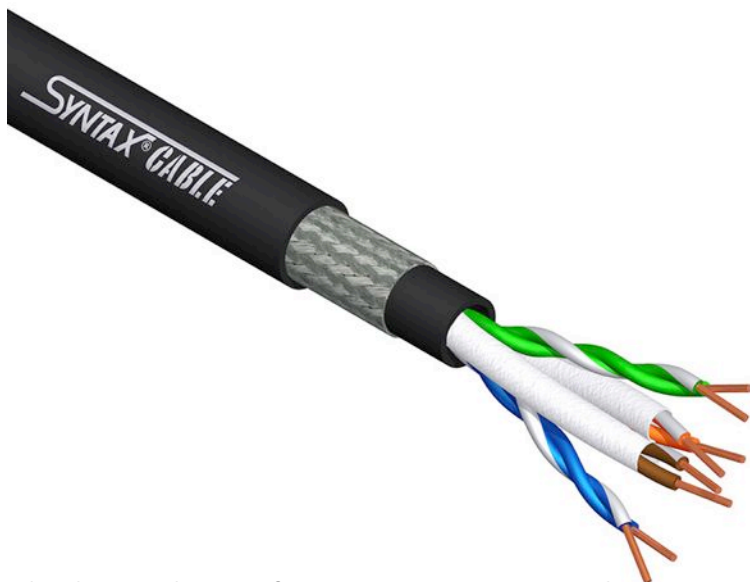


- Designed for broadcast & network installations demanding high Class D bit rates.
- ISO/IEC11801 & EN501731EIA/TIA 568B.2 compliant (90m), Category 5E.
- Single or Double jacketed constructions.
- Flexible jacket; round, smooth design; zero interstices.
- Indoor (**7XLANCAT5**) & Outdoor (**7XLANCAT5PUR**) versions.
- **7XLANCAT5PUR** features a second exterior jacket of highly durable & temperature resistant polyurethane.
- Foam Polyolefin insulation on conductors to maintain exacting electrical & signal tolerances over a longer service life span.
- Double shielded: heavy braid + overlapped foil.
- Reel sizes: 100m, 305m (1,000') & 500m, continuous lengths.

AUDIO NETWORKING CAT6 PUR CABLE

7XLANCAT6PUR

AUDIO OVER IP | RUGGEDIZED FOR BROADCAST, OUTDOOR & TOURING APPLICATIONS

*The best choice for transporting audio over IP*

Designed for outdoor and mobile use in broadcasting and in all Class E network installations with a required transmission frequency of up to 250MHz, and installations demanding high bit rates & low latency. Durability for coiling/uncoiling over cable drums.

Perfect in AVB, Ravenna, Dante, CobraNET, Format-A, AES67 or other AoE networking applications where the sum latency cannot exceed 2ms across 7 hops. **7XLANCAT6PUR** is fully compliant with ISO/IEC 11801 - EN 50173 - EIA/TIA 568B.2 and ensures accurate transmission of data over a maximum 90 meters per the Category 6 standard.

- ISO/IEC11801 & EN501731EIA/TIA 568B.2 compliant (90m).
- Flexible dual-jacketed design; round, smooth surface with zero interstices.
- Exterior jacket of tough, highly durable & temperature resistant polyurethane.
- Foam polyolefin insulation maintains exacting electrical & signal specification tolerances.
- Heavy coverage tinned copper braided shield = superior shielding at application frequencies.
- Designed to physically withstand constant coiling on cable drums.
- Delivers longer service life & greater value.
- Reel sizes: 100m, 305m (1,000') & 500m, continuous lengths.

SYNTAX[®]



AUDIO, VIDEO & DATA NETWORKING
LIVE PERFORMANCE & TOURING
STADIUMS & CONCERT VENUES
LOUDSPEAKER INSTALLATIONS
PRO AUDIO SIGNAL ROUTING
STAGE BOXES & SNAKES
LIGHTING & CONSOLES
POWER & BALLAST
I/O PANELS
BROADCAST

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