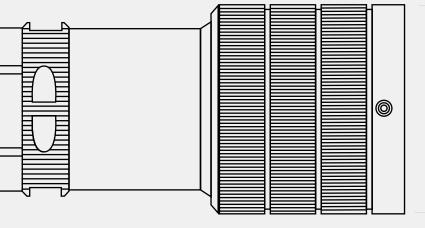


Syntax® SAE-AS50151 & VG 95234 Connectors is our next accomplishment

Syntax® Bayonet



VALENTINI SYNTAX®

Inventors, manufacturers, innovators.

Valentini is a dynamic, ever-evolving company operating in over 60 countries worldwide. For more than 30 years we have actively researched, designed and manufactured connectors for power, signal and hybrid applications.

Our products have been used all over the world to manage power and electric signals in fields such as industry, automotive, broadcasting, shipbuilding & ship to shore power, international sporting events, live shows, military & national emergency management by agencies such as the Italian Civil Protection Department, and so many more.

Valentini is an environmentally-aware company where respect for the environment is an integral part of the manufacturing process. Our team is motivated and mindful of details, as we are aware of how important details are in our pursuit of uncompromised quality and utmost reliability.

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Syntax® Bayonet

multipin connectors

SAE-AS50151 & VG95234 Many different shell sizes and insert arrangements up to 150 contacts

Our Syntax circular bayonet multipin connectors are built in compliance with SAE-AS50151, formerly known as MIL-C-5015, and VG 95234 military standards, so they are designed and built to be tough and reliable, being at the same time extremely versatile. Our Bayonet family consists of 6 different connectors series suitable to a vast range of both indoor or outdoor applications, being IP67 waterproof when mated, and can carry signal and/or power, depending on the type of connection the job requires.

Each series has its own peculiarities: the SVK and the SHD connectors are available in 8 different insert arrangements from 13 to 150 pins, with the SVK being a solid all-round indoor/outdoor choice, while the SHD is more focused on outdoor-only applications. The SPK series consists with 3 different pin counts, having 4,8 and 25 contacts. The 8 pin SPK is CA-COM compatible. The SVS connectors are designed to carry a large number of signal contacts in a slim body and come in 72 and 101 pin versions. The SB Series is available in 16 different insert arrangements and contact configurations and has a special eye for lighting applications. Finally, the SV series is designed for broadcasting and to carry multiple audio and video signals.





















Typical applications

- Industrial automation
- Transport networks
- TV and radio broadcast
- Live entertainment
- Live events
- Conferences
- Surveillance networks
- Electrical power systems
- Power distribution
- Mobile generators
- Railway installations
- Military installations
- Backup power systems
- Electrical power supply companies
- Heavy industry



Bayonet series shell features

Multipin connectors



Firmer grip

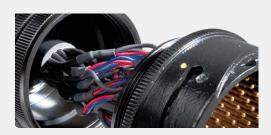
Marked knurling on the whole circumference of locking-ring for optimal grip and easy coupling.

An audible click indicates that locking is complete.



Extra resistance

Thicker locking ring for high resistance to shocks. In the SVK, SHD, SVS, SB, SV series the aluminium housing for the insulating insert does not protrude from the edge of the locking ring, avoiding ovalization due to accidental blows.



Simpler wiring

Extrawide backshell to allow easier wiring operations.



Bigger roller pins

Increased size of Coupling roller pins on locking-ring for more durability.



No vibrations

Vibration-proof stainless steel safety pin ensures high reliability of the connection in every working condition.







Syntax® SVK series

A synthesis for perfect balance

The Syntax SVK series provides super-reliable military-grade connecting solutions in industrial machinery and automation, and in applications such as energy, managing of audio channels and connection of a wide range of devices. All details have been thoughtfully engineered to set a higher standard and provide an unprecedented level of strength, durability and comfort. Its IP67 waterproof rating (when mated) makes the Syntax SVK series suitable for any kind of usage. On the females, the locking ring is comfortable to lock and has a thick-wall construction for increased durability in case of accidental blows. The roller pins ensure easy coupling with an audible click when locked. The SVK series is available in 8 different insert arrangement configurations, from 13 to 150 contacts. Compliant with SAE-AS50151 (formerly known as MIL-C-5015) & VG95234 standards, RoHS.

Technical features

- SVK series available versions: 13, 19,25, 37, 54, 85, 100 and 150 pins
- Compliant with SAE-AS50151 & VG 95234 military standards
- Aluminium alloy shells with abrasion resistant black electrophoresis finish
- Audible lock-up recognition system guaranteed for over 2000 mating and unmating cycles
- Metal or rubber coated locking rings for easy coupling
- Bayonet lock stainless steel safety pin
- High precision gold or silver plated machined contacts for frictionless coupling and long term reliability
- Chloroprene high performance insulating rubber insert allowing easy contact insertion and removal for fast assembling or repair operations
- Standard or spiral flex cable glands ensure water tight sealing and optimal cable strain relief
- Heavy-duty metal cable grips with wire mesh are available on request
- IP67 waterproof (when mated) for outdoor applications
- IP67 caps for waterproof protection on unmated connectors



Inline versions

SVK Series



Inline female

SVK series

Pins	Part Number
13	SVK013FV
19	SVK019FV
25	SVK025FV
37	SVK037FV
54	SVK054FV
85	SVK085FV
100	SVK100FV
150	SVK150FV

Inline male

SVK series

Pins	Part Number
13	SVK013MV
19	SVK019MV
25	SVK025MV
37	SVK037MV
54	SVK054MV
85	SVK085MV
100	SVK100MV
150	SVK150MV



Panel versions

SVK Series



Panel female

SVK series

Pins	Part Number
13	SVK013FP
19	SVK019FP
25	SVK025FP
37	SVK037FP
54	SVK054FP
85	SVK085FP
100	SVK100FP
150	SVK150FP

Panel male

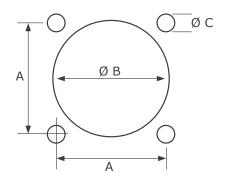
SVK series

Pins	Part Number
13	SVK013MP
19	SVK019MP
25	SVK025MP
37	SVK037MP
54	SVK054MP
85	SVK085MP
100	SVK100MP
150	SVK150MP



Cut-out dimensions

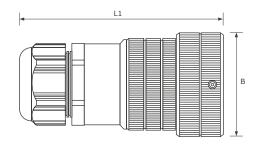
Panel connectors



Pins	Α	ØВ	ØС
13-19	29.4 mm	31.7 mm	3.1 mm
25	34.9 mm	35.3 mm	3.7 mm
37	39.7 mm	41.5 mm	3.7 mm
54	44.5 mm	47.9 mm	4.3 mm
85-100-150	55.5 mm	59.1 mm	4.3 mm

Overall dimensions

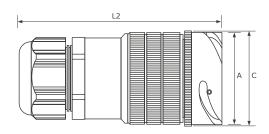
Inline and panel version



Inline female

Dimensions in mm

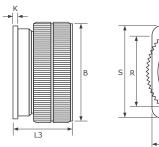
Pins	Shell size		L1 Max	Cable clamp metric	Ø Cable Min-Max
13-19	20	43.0	103	M20	6-14
25	24	50.4	108	M25	6-18
37	28	56.0	116	M32	7-25
54	32	63.0	121	M32	7-25
85-100- 150	40	75.0	147	M40	15-32

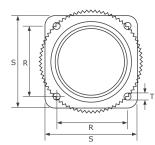


Inline male

Dimensions in mm

Pins	Shell size	Ø A Max +0/-0.15			Cable clamp metric	Ø Cable Min-Max
13-19	20	40.0	43	102	M20	6-14
25	24	40.9	44	109	M25	6-18
37	28	46.7	50	116	M32	7-25
54	32	53.4	56	122	M32	7-25
85-100- 150	40	65.5	69	147	M40	15-32

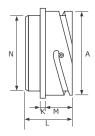


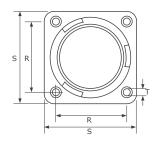


Panel female

Dimensions in mm

Pins		,-		К ±0.2			
13-19	20	43.0	38.1	4	29.4	38.0	3.2
25	24	50.4	40.6	4	34.9	44.5	3.7
37	28	56.0	40.8	4	39.7	50.8	3.7
54	32	63.0	43.7	4	44.5	57.0	4.4
85-100- 150	40	75.0	44.8	4	55.6	69.8	4.4





Panel male

Dimensions in mm

	Pins		Ø A ±0.15			M +0.4/-0	, -	R ±0.1		T H13
_	13-19	20	34.2	34.5	4	19.0	31.7	29.4	38.1	3.2
_	25	24	40.9	35.7	4	20.6	35.3	34.9	44.5	3.7
	37	28	46.7	35.7	4	20.6	41.4	39.7	50.8	3.7
_	54	32	53.4	37.3	4	22.2	47.8	44.5	57.0	4.3
	85-100- 150	40	65.5	37.3	4	22.2	59.0	55.6	69.8	4.3







Syntax® SHD series

SHD Roadline Syntax Heavy Duty connectors

The Syntax SHD series has set a new benchmark for industry standard SAE-AS50151 & VG 95234 designs, providing extra-reliable military-grade performance in such diverse fields as industrial machinery, automation, energy, managing of audio channels, live events, broadcasting and connections of a wide range of devices, both indoors or outdoors. Its extreme robustness guarantees long term reliability and an increased number of mating cycles in rigorous conditions. Bigger coupling roller pins and deeper knurled shells provide easy mating/unmating. Thicker machined construction prevents ovalization of the locking rings caused by unintentional blows.

IP67 waterproof rating is achieved when connectors are mated or connected to the protective caps.

Technical features

- SHD series available versions: 13, 19,25, 37, 54, 85, 100 and 150 pins
- Compliant with SAE-AS50151 & VG 95234 military standards
- Increased thickness of the locking-ring ensures greater resistance to shocks
- Double backshell tightening areas
- Aluminium alloy shells with abrasion resistant black electrophoresis finish
- Audible lock-up recognition system guaranteed for over 2000 mating and unmating cycles
- Metal or rubber coated locking rings specifically designed for easy coupling
- Bayonet lock stainless steel safety pin
- High precision gold or silver plated machined contacts for frictionless coupling and long term reliability
- High performance insulating insert allowing easy contact insertion and removal for fast assembling or repair
- Standard or spiral flex cable glands ensure water tight sealing and optimal cable strain relief
- Heavy-duty metal cable grips with wire mesh are available on request
- Extra wide backshell for easier wiring
- IP67 waterproof (when mated) for outdoor applications
- IP67 caps for waterproof protection on unmated connectors



Inline versions SHD Series



Inline female

SHD series

Pins	Part Number
13	SHD013FV
19	SHD019FV
25	SHD025FV
37	SHD037FV
54	SHD054FV
85	SHD085FV
100	SHD100FV
150	SHD150FV

Inline male

SHD series

Pins	Part Number
13	SHD013MV
19	SHD019MV
25	SHD025MV
37	SHD037MV
54	SHD054MV
85	SHD085MV
100	SHD100MV
150	SHD150MV



Panel versions

SHD Series



Panel female

SHD series

Pins	Part Number
13	SHD013FP
19	SHD019FP
25	SHD025FP
37	SHD037FP
54	SHD054FP
85	SHD085FP
100	SHD100FP
150	SHD150FP

Panel male

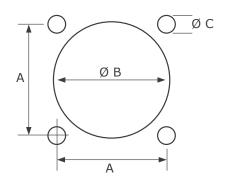
SHD series

Pins	Part Number
13	SHD013MP
19	SHD019MP
25	SHD025MP
37	SHD037MP
54	SHD054MP
85	SHD085MP
100	SHD100MP
150	SHD150MP



Cut-out dimensions

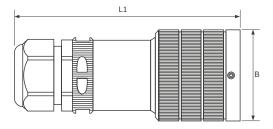
Panel connectors



Pins	Α	ØВ	ØС
13-19	29.4 mm	31.7 mm	3.1 mm
25	34.9 mm	35.3 mm	3.7 mm
37	39.7 mm	41.5 mm	3.7 mm
54	44.5 mm	47.9 mm	4.3 mm
85-100-150	55.5 mm	59.1 mm	4.3 mm

Overall dimensions

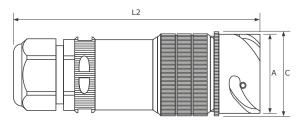
Inline and panel version



Inline female

Dimensions in mm

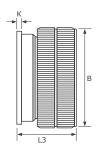
Pins	Shell size		L1 Max	Cable clamp metric	Ø Cable Min-Max
13-19	20	43.0	153	M20	6-14
25	24	50.4	153	M25	6-18
37	28	56.0	158	M32	7-25
54	32	63.0	163	M32	7-25
85-100- 150	40	75.0	186	M40	15-32

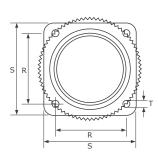


Inline male

Dimensions in mm

Pins	Shell size				Cable clamp metric	Ø Cable Min-Max
13-19	20	40.0	43	102	M20	6-14
25	24	40.9	44	109	M25	6-18
37	28	46.7	50	116	M32	7-25
54	32	53.4	56	122	M32	7-25
85-100- 150	40	65.5	69	147	M40	15-32

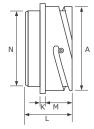


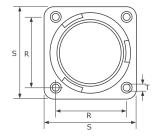


Panel female

Dimensions in mm

Pins	Shell size	, -		К ±0.2			
13-19	20	43.0	38.1	4	29.4	38.0	3.2
25	24	50.4	40.6	4	34.9	44.5	3.7
37	28	56.0	40.8	4	39.7	50.8	3.7
54	32	63.0	43.7	4	44.5	57.0	4.4
85-100- 150	40	75.0	44.8	4	55.6	69.8	4.4





Panel male

Dimensions in mm

Pins	Shell size	,-			M +0.4/-0	, -			
13-19	20	34.2	34.5	4	19.0	31.7	29.4	38.1	3.2
25	24	40.9	35.7	4	20.6	35.3	34.9	44.5	3.7
37	28	46.7	35.7	4	20.6	41.4	39.7	50.8	3.7
54	32	53.4	37.3	4	22.2	47.8	44.5	57.0	4.3
85-100- 150	40	65.5	37.3	4	22.2	59.0	55.6	69.8	4.3





Double backshell tightening

Once wiring is carried out, both circular knurling and machined housings for customized wrench jaws on the backshell's edge contribute to easier locking. Tightening tools:

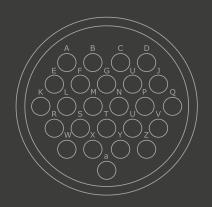
SVKT - KSW customized wrench (on machined housings)

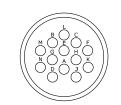
SVKT - KSTRAP strap wrench (on knurling).

Insert layouts and wiring lists

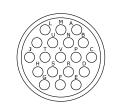
Reference guide

Male insert front view | SVK and SHD series

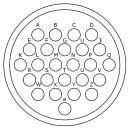




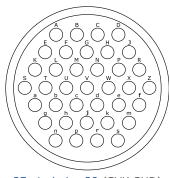
13 pin | size 20 (SVK-SHD)



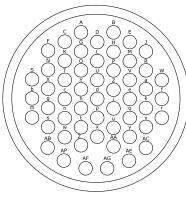
19 pin | size 20 (SVK-SHD)



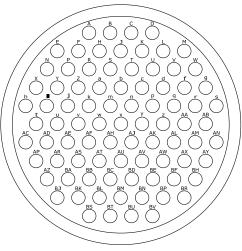
25 pin | size 24 (SVK-SHD)



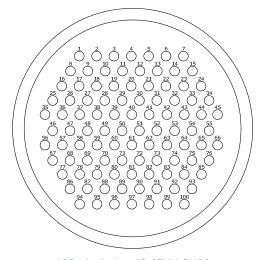
37 pin | size 28 (SVK-SHD)



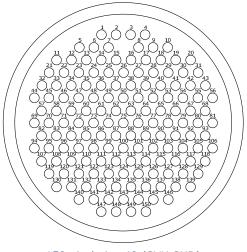
54 pin | size 32 (SVK-SHD)



85 pin | size 40 (SVK-SHD)



100 pin | size 40 (SVK-SHD)



150 pin | size 40 (SVK-SHD)

13 pin - 4 channels

Ch	Hot	Cold	Gnd
No.	+	-	÷
1	Μ	В	L
2	Ν	G	Е
3	D	Α	Н
4	1	K	F

19 pin - 6 channels

Ch	Hot	Cold	Gnd
No.	+	-	÷
1	Α	М	L
2	С	Р	В
3	N	U	V
4	Т	J	K
5	D	R	E
6	F	G	S

25 pin - 8 channels Ch Hot Cold Gno

Ch	Hot	Cold	Gnd
No.	+	-	÷
1	Α	Е	F
2	G	С	В
3	D	Н	J
4	M	L	K
5	Q	Р	Ν
6	W	S	R
7	Т	Χ	Υ
8	Z	V	U

37 pin - 12 channels

Ch	Hot	Cold	Gnd
No.	+	-	÷
1	Е	F	Α
2	В	С	G
3	Н	J	D
4	S	Т	K
5	L	M	U
6	V	W	N
7	Р	R	Χ
8	а	b	g
9	С	d	j
10	е	f	m
11	n	р	h
12	r	S	k

54 pin - 16 channels

Ch	Hot	Cold	Gnd
No.	+	-	÷
1	W	f	r
2	J	R	а
3	k	V	AC
4	Е	М	V
5	е	q	У
6	В	Н	Р
7	Z	j	u
8	D	L	U
9	d	р	X
10	Α	G	0
11	Υ	h	t
12	С	K	Т
13	С	n	W
14	F	N	X
15	g	S	AB
16	g S	b	m

150 pin - 48 channels Ch Hot Cold Gnd

Ch	Hot	Cold	Gnd
No.	+	-	÷
1	1	2	3
2	5	6	7
3	8	9	10
4	11	12	13
5	14	15	16
6	17	18	19
7	21	22	23
8	24	25	26
9	27	28	29
10	20	30	31
11	32	33	34
12	35	36	37
13	38	39	40
14	41	42	43
15	44	45	46
16	47	48	49
17	50	51	52
18	53	54	55
19	57	58	59
20	60	61	62
21	63	64	65
22	66	67	68
23	69	70	71
24	72	73	74
25	75	76	77
26	78	79	80
27	82	83	84
28	85	86	87
29	88	89	90
30	91	92	93
31	94	95	96
32	97	98	99
33	100	101	102
34	103	104	105
35	56	81	106
36	107	108	109
37	110	111	112
38	113	114	115
39	116	117	118
40	119	120	121
41	122	123	124
42	125	126	127
43	139	128	129
44	130	131	132
45	133	134	135
46	136	137	138
47	140	141	142
48	143	144	145

85 pin - 28 channels

Ch	Hot	Cold	Gnd
No.	+	-	÷
1	Α	В	С
2	A E	B F	Н
3	J	K	L
4	N	Р	R
5	S	Т	U
6	X	Υ	Z
7	а	b	С
8	d	f	g
9	h	- 1	j
10	k	m	n
11	р	q	r
12	t	u	V
13	W	X	У
14	Z	AA	AB
15	AC	AD	AE
16	AF	AH	AJ
17	AK	AL	AM
18	AP	AR	AS
19	AT	AU	AV
20	AW	AX	AY
21	ΑZ	BA	BB
22	ВС	BD	BE
23	BJ	BK	BL
24	ВМ	BN	BP
25	BS	BT	BU
26	BV	BR	BF
27	ВН	AN	S
28	W	М	D

100 pin - 32 channels

100						
Ch	Hot	Cold	Gnd			
No.	+	-	÷			
1	1	2	3			
2	4	5	6			
3	7	8	9			
1	10	11	12			
5	13	14	15			
6	16	17	18			
7	19	20	21			
8	22	23	24			
9	25	26	27			
10	28	29	30			
11	31	32	33			
12	34	35	36			
13	37	38	39			
14	40	41	42			
15	43	44	45			
16	46	47	48			
17	49	50	51			
18	52	53	54			
19	55	56	57			
20	58	59	60			
21	61	62	63			
22	64	65	66			
23	67	68	69			
24	70	71	72			
25	73	74	75			
26	76	77	78			
27	79	80	81			
28	82	83	84			
29	85	86	87			
30	88	89	90			
31	91	92	93			
32	94	95	96			
33	97	98	99			

Contacts for SVK and SHD series

The secret behind a high quality

Male and female contacts | Silver - Gold Size 16-18



FEMALE contacts

SOLDER



GOLD Armored | size 16 13/19/25/37/54/85 pin versions Part No. SVKP16GFZ



SILVER Armored | size 16 13/19/25/37/54/85 pin versions Part No. SVKP16SFZ



GOLD | size 16 13/19/25/37/54/85 pin versions Part No. **SVKP16GFS**



CRIMP



SILVER Armored | size 16 13/19/25/37/54/85 pin versions Part No. SVKP16SFK



SILVER | size 16 13/19/25/37/54/85 pin versions Part No. SVKP16SFC

GOLD Armored | size 18 100/150 pin versions Part No. SVKP18GFK



GOLD Armored | size 16 13/19/25/37/54/85 pin versions

Part No. SVKP16GFK



GOLD | size 16 13/19/25/37/54/85 pin versions Part No. SVKP16GFC

MALE contacts

SOLDER



GOLD | size 16 13/19/25/37/54/85 pin versions

Part No. SVKP16GMS



SILVER | size 16 13/19/25/37/54/85 pin versions Part No. SVKP16SMS

CRIMP



SILVER | size 16 13/19/25/37/54/85 pin versions

Part No. SVKP16SMC



GOLD | size 18 100/150 pin versions Part No. SVKP18GMC



GOLD | size 16 13/19/25/37/54/85 pin versions Part No. SVKP16GMC

Contacts rating

Size 16 - Size 18

Size	Max current	Rated current	Max voltage drop	Wire section (mm2)	Wire section AWG
16	22 A	13 A	74mV	1÷1,5	18÷16
18	7.5 A	7.5A	83mV	0.15÷0.6	26÷20

Connectors rating

SVK and SHD series

Contacts number	Operating voltage Vdc	Operating voltage Vac	Test voltage Vac	Min. Flashover Vac
13/19/25/150	250	1200	1000	1400
37/54/85/100	700	500	2000	2800





SLS Stainless steel connector Series

The high-end solution for professional connections.

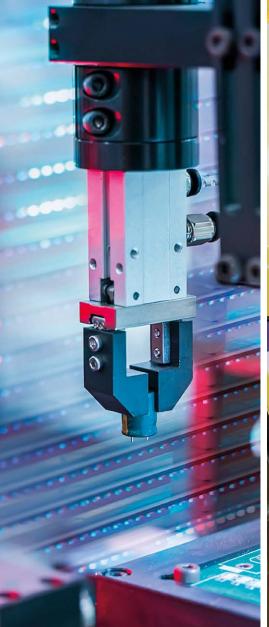
A new generation of connectors. The new Syntax SLS series is a high-end solution for professional connections. The SLS series features a front shell made of stainless steel. Along with the all-aluminium construction of the existing Syntax connectors series such as SVK and SHD, the new SLS series completes the Syntax range with a focus on connections where high-precision contactation is needed. In particular, stainless steel's unique properties will enable our customers to easily take their ideal connection from concept to reality. While providing unprecedented connectors' lifespan and reliability, the adoption of steel originates a vast array of possibilities for new connectors' designs, making innovative breakthroughs possible and not restricted to large scale deployment solutions. A new generation of special, highperformance connectors for fiber optic, audio/ video applications, combo systems and a virtually limitless number of high-precision future applications is now within reach.



Main advantages

- Extreme robustness
 - Highest durability
- Greater resistance to wear and tear
- Increased number of mating cycles

(more than 10 times the number of cycles of all-aluminium shells)







AL E OS

Agency Lounge

Syntax® SVS series

Slim High Density connectors

The Syntax SVS Slim High Density series connectors have been conceived and manufactured to set a higher standard for indoor as well for outdoor applications, thanks to their IP67 waterproof rating. SVS connectors are compliant with SAE-AS50151 VG 95234 military standards. The new version of the series has been enhanced to achieve a higher level of strength and durability, thanks to thicker backshell and locking ring. Our locking rings are designed to prevent possible ovalization of the insert due to accidental blows, with deeper knurling for easy coupling. The increased size of the roller pins ensures stable and realiable connections.



Technical features

- SVS Slim high density series available versions 72 and 101 pins
- Compliant with SAE-AS50151 & VG 95234 military standards
- Aluminium alloy shells with abrasion resistant black electrophoresis finish
- Audible lock-up recognition system guaranteed for over 2000 mating and unmating cycles
- Metal or rubber coated locking rings for easy coupling
- Bayonet lock stainless steel safety pin
- High precision gold or silver plated machined contacts for frictionless coupling and long term reliability
- High performance insulating insert allowing easy contact insertion and removal for fast assembling or repair operations
- Standard or spiral flex cable glands ensure water tight sealing and optimal cable strain relief
- Heavy-duty metal cable grips with wire mesh are available on request
- IP67 waterproof (when mated) for outdoor applications
- IP67 caps for waterproof protection even on unmated connectors



Inline and panel versions SVS Series



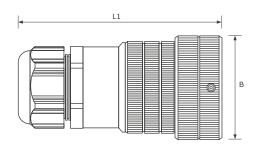






Overall dimensions

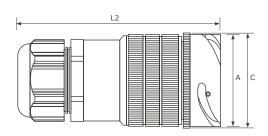
Inline and panel version



Inline female

Dimensions in mm

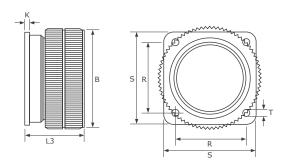
Pins				Cable clamp metric	
72	28	56.0	116	M32	7-25
101	32	63.0	121	M32	7-25



Inline male

Dimensions in mm

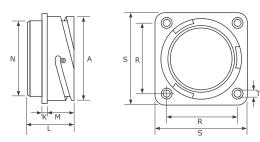
2,2 mm		Ø A Max +0/-0.15			Cable clamp metric	
72	28	46.7	50	116	M32	7-25
101	32	53.4	56	122	M32	7-25



Panel female

Dimensions in mm

Pins	Shell size	<i>,</i> – –			R ±0.1	_	-
72	28	56.0	40.8	4	39.7	50.8	3.7
101	32	63.0	43.7	4	44.45	57.0	4.4



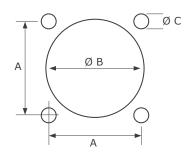
Panel male

Dimensions in mm

Pins		, -			M +0.4/-0	, -			
72	28	46.7	35.7	4	20.6	41.4	39.7	50.8	3.7
101	32	53.4	37.3	4	22.2	47.8	44.5	57.0	4.3

Cut-out dimensions

Panel connectors



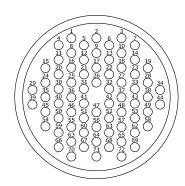
Pins	Α	ØВ	ØС
72	39.7 mm	41.5 mm	3.7 mm
101	44.5 mm	47.9 mm	4.3 mm



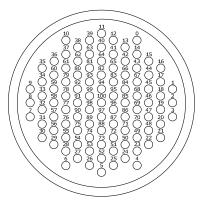
Insert layouts and wiring lists

Reference guide

Male insert front view | SVS series



72 pin | size 28 (SVS)



101 pin | size 32 (SVS)

101 pin - 32 channels

101 pin - 32 Channe					
Ch	Hot	Cold	Gnd		
No.	+	-	÷		
1	3	2	1		
2	9	8	7		
3	12	11	10		
4	15	14	13		
5	18	17	16		
6	21	20	19		
7	24	23	22		
8	27	26	25		
9	30	29	28		
10	33	32	31		
11	36	35	34		
12	39	38	37		
13	42	41	40		
14	45	44	43		
15	48	47	46		
16	51	50	49		
17	54	53	52		
18	57	56	55		
19	60	59	58		
20	63	62	61		
21	66	65	64		
22	69	68	67		
23	72	71	70		
24	75	74	73		
25	78	77	76		
26	81	80	79		
27	84	83	82		
28	87	86	85		
29	90	89	88		
30	93	92	91		
31	96	95	94		

72 pin - 24 channels

Ch	Hot	Cold	Gnd
No.	+	-	÷
1	3	2	1
2	5	6	7
3	9	8	4
4	13	14	10
5	15	11	12
6	18	17	16
7	22	23	19
8	24	20	21
9	27	26	25
10	33	34	28
11	30	31	32
12	36	35	29
13	44	38	37
14	41	42	43
15	45	39	40
16	48	47	46
17	52	53	49
18	54	50	51
19	57	56	55
20	61	62	58
21	63	59	60
22	69	65	64
23	66	67	68
24	72	71	70

Contacts for SVS series

The secret behind a high quality connection

Male and female contacts | Gold | Size 20



GOLD Armored female | size 20 72/101 pin versions Part No. **SVKP20GFC**



97

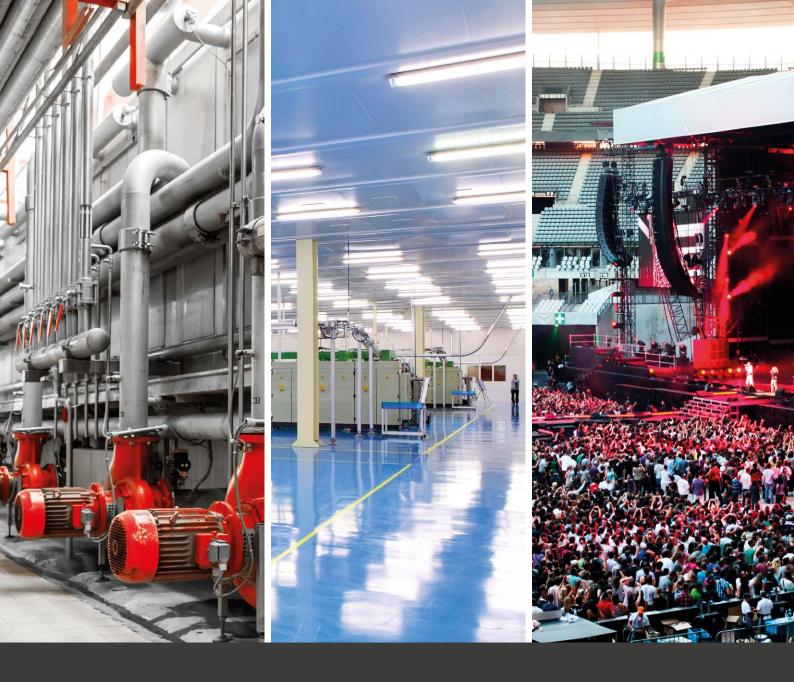
GOLD male | size 20 72/101 pin versions Part No. **SVKP20GMC**

Contacts rating Size 20

Size	Max current	Rated current	Max voltage drop	Wire section (mm2)	Wire section AWG
20	10 A	7.5 A	83mV	0.15÷0.3	26÷22

Connectors rating SVS series

Contacts number	Operating voltage Vdc	Operating voltage Vac	Test voltage Vac	Min. Flashover Vac
72/101	250	1200	1000	1400



Syntax® SPK series

Carrying all the power you need

The Size 12 high conductive alloy machined contacts are the heart of the SPK family. Each contact provides 41 amp max current and 23 amp rated current, making our SPK connectors ideal not only for the live entertainment world and loudspeakers connections, but also for industrial applications as well as for field operations that require high power. SPK connectors are compliant with SAE-AS50151 & VG 95234 military standards and come in 3 different models: 4pin, the smallest one, 8pin, fully compatible with the CA-COM type connectors, and the new 25 pin, which can be used in combination with 3-way, 6-way or 12-way grommets.





Syntax SPK 25 pin

Inline and panel versions

The Syntax SPK 25pin heavy duty features, common to all the bayonet multipin series connectors, are based on SAE-AS50151 and VG95234 mechanical specs and include IP67 rating, thick wall construction shells and impact resistant locking rings. All these elements provide SPK 25pin series with benchmarking robustness and durability. The SPK 25pin can be used in combination with either a M40 or a M50 cable gland and, in combination with a special adapter, even with a M63 gland, which allows the use of 3 different multiway grommets.



Inline
with rubber coated locking ring
and M40 cable gland



Panel with ramps



Inline with ramps and M50 cable gland

M50 to M63 cable gland adapter

for SPK 25pin inline connectors

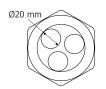
This adapter has been designed to allow the use of bigger M63 cable glands with the inline body of the 25pin SPK connector, in order to use the 3-way, 6-way and the 12-way grommets.



Multiway grommet

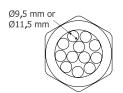
for M63 cable gland with adapter

Multi-hole grommet allow easy cable splitting with specific solutions for 12 cables (2x2.5 mm² or 2x4 mm²) or 6 cables (4x4 mm²) or 3 cables (8x4 mm²).





3-way grommets 3x20 mm OD cables Associated Syntax® cable: Part Number 7Z8SX40



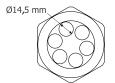


12-way grommets

12x9,5 mm or 12x11,5 mm OD cables

Associated Syntax® cable:

Part Numbers **7Z2SX25** (Ø9,5mm) **7Z2SX40** (Ø11,5mm)

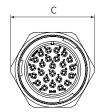


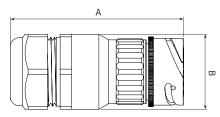


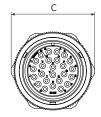
6-way grommets 6x14,5 mm OD cables Associated Syntax® cable: Part Number 7Z4SX40

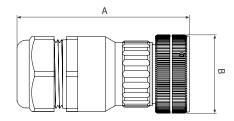
Overall dimensions

Inline and panel version 25pin









Inline version

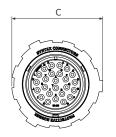
with ramps

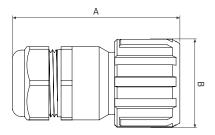
Cable gland	Α	В	С
M40	~ 134 mm	Ø 60 mm	Ø 60 mm
M50	~ 139 mm	Ø 60 mm	Ø 67 mm
M63	~ 164 mm	Ø 70 mm	Ø 76,3 mm

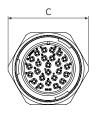
Inline version

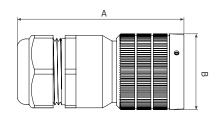
with standard aluminium locking ring

Cable gland	Α	В	С
M40	~ 134 mm	Ø 63 mm	Ø 63 mm
M50	~ 139 mm	Ø 63 mm	Ø 67 mm
M63	~ 164 mm	Ø 63 mm	Ø 76,3 mm









Inline version

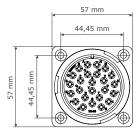
with rubber locking ring

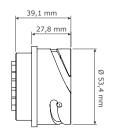
Cable gland	Α	В	С
M40	~ 134 mm	Ø 75 mm	Ø 75 mm
M50	~ 139 mm	Ø 75 mm	Ø 75 mm
M63	~ 163 mm	Ø 75 mm	Ø 75 mm

Inline version

with aluminium heavy duty locking ring

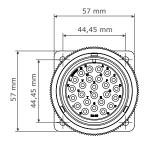
Cable gland	Α	В	С
M40	~ 134 mm	Ø 63 mm	Ø 63 mm
M50	~ 139 mm	Ø 63 mm	Ø 67 mm
M63	~ 164 mm	Ø 63 mm	Ø 76,3 mm

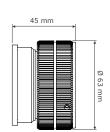




Panel version

with ramps





Panel version

with aluminium locking ring

Syntax SPK 8pin

Inline and panel versions

Syntax SPK connectors are available in the 8pin configuration, fully intermateable with the widely used CA-COM connectors. As a typical application, for example, the SPK 8 pins are used to convey high power signals to professional loudspeakers. Their design presents the same key features of SVK Series, and can be supplied with rubber covered locking ring and with gold plated solder-type contacts. The SPK series connectors are solidly built so as to ensure long term reliability.



Inline versions SPK 8pin Series



Inline
with rubber locking ring
and M32 cable gland



Inline with ramps and M32 cable gland



Inline
with aluminium locking ring
and M32 cable gland

4-way grommets

4x12 mm OD cables
Associated Syntax® cable:
Part Number 7Z2SX40









8pin Adapter

For 8pin extension cables

Part Number SPK008ADIV

The SPK 8pin extension cables (CA-COM 8 compatible) typically feature a male connector at one end and a female connector at the other end, with locking rings on both terminations to allow the connection to panel mount devices without locking rings. Such configuration prevents the possibility of joining multiple cables and make longer extensions. SPK 8pin adapter permits the connection of more extension cords together. The male and female connections of the SPK 8 pin adapter are without locking rings. This allow users to extend the length of a SPK 8 pin Speaker cable by joining two existing cables with locking rings together.

- Compatible with Syntax SPK 8pin connector, CA-COM 8 and all other series with insert 22-23 (8 pins) compliant with SAE-AS50151 & VG95234 standards
- Allows users of SPK 8pin to create longer extensions
- Heavy duty aluminum body for maximum durability
- Obtained through machining of aluminum special alloy
- Typical environments and markets: theatres, PA (concert touring) applications, live events, permanent installations

Panel versions

SPK 8pin Series



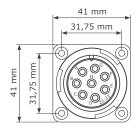
Panel with ramps

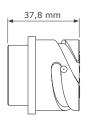


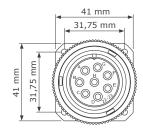
Panel with aluminium locking ring

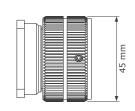
Overall dimensions

Inline and panel version 8pin







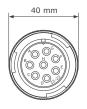


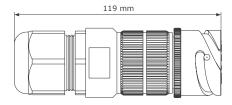
Panel version

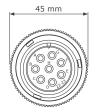
with ramps

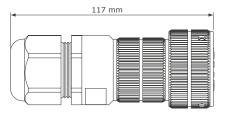


with aluminium locking ring







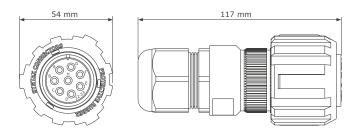


Inline version

with ramps

Inline version

with aluminium locking ring



Inline version

with rubber locking ring





Syntax SPK 4pin

Inline and panel versions

The smallest connector in the SPK family is the 4pin. Like its bigger brothers and, in general, all the connectors in the bayonet multipin series, the SPK 4pin is compliant with SAE-AS50151 & VG 95234 military standards. The design presents the same key features of SVK Series, and can be supplied with gold plated solder-type contacts. The SPK series connectors are solidly built so to ensure long term reliability.









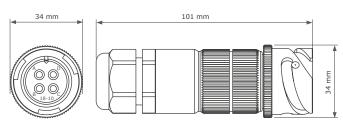
Inline male and female with locking rings and M20 cable gland

Inline male and female with ramps and M20 cable gland

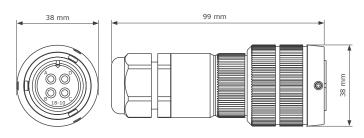
Panel male and female with ramps

Overall dimensions

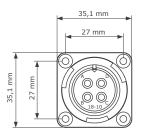
Inline and panel version 4pin

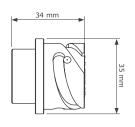


Inline version with ramps

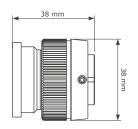


Inline version with aluminium locking ring





35,1 mm 27 mm 27 mm



Panel version

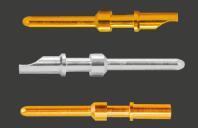
with ramps

Panel versionwith aluminium locking ring

Contacts for SPK series

The secret behind a high quality connection

Male and female contacts | Silver - Gold Size 12



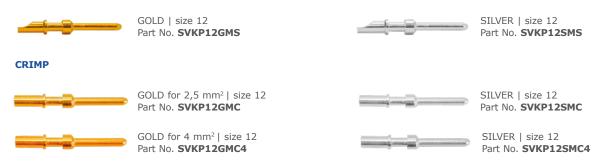
FEMALE contacts

SOLDER



MALE contacts

SOLDER



Technical data **SPK** series Voltage Voltage Max current Rated current Potential drop **Dieletric strenght** Min. Flashover rating AC rating DC **Test voltage** 1250 V 900 V 2800 Vac RMS 41 Amps 23 Amps 63 mV 3600 Vac RMS



Customize and color code your connectors

Rubber coated and Heavy Duty locking rings

Available in multiple sizes for models in the SVK, SHD, SVS, SPK, SB, SV families of Syntax Bayonet multiplin connectors. Multiple color options available in stock.

For special color customizations, according to RAL charts, please contact our Sales department.

Rubber coated locking rings

The thoughful design of our rubber coated rings ensures optimal grip on the whole circumference and easy coupling. The thick wall construction of the inner metal ring, in fact, provides unparalleled resistance to all possible forms of abuse. It represents an evolution of the common rubber-coated rings and solves the problem of their being mechanically weaker compared to all-metal construction rings.

An audible click indicates that locking is complete. The roller pins ensure smoother coupling and more durability. Thanks to their increased size, these characteristics have now been further emphasized.













Heavy Duty locking rings

The Syntax Heavy duty rings have been built to be super resistant to the shocks and compressions of everyday extensive usage. Black painted cataphoresis finish as a standard. On request, anodized finish is available in different colors.

Availability chart

Find the version you need

Our color coded locking rings are available in multiple sizes for the following series and models:



Size	Series	Connector version
18	SPK	4 pin (Heavy Duty only)
20	SVK - SHD	13 - 19 pin
	SB	20-15
22	SPK	8 pin
	SB	22-1 22-2 22-22
24	SVK - SHD	25 pin
	SB	24-11 24-2
28	SVK - SHD	37 pin
	SVS	72 pin
	SB	28A-9 28-22 28-3 28-6 28-10
	SV	-
32	SVK - SHD	54 pin
	SVS	101 pin
	SPK	25 pin
	SB	32A-9 32-5
40	SVK - SHD	85 100 150 pin
	SB	40A-10







Syntax® SV series

Audio/Video connectors and stage boxes

The Syntax SV Audio/Video connectors have been designed for professional broadcasting, and are especially suitable for outdoor usage even in harsh conditions. The SV range include inline and panel mount connectors, male and female, as well as the Syntax 7YVD6DG8HD combi audio/video cable with 6 video and 8 audio channels, and male or female break-out boxes. This insert arrangement houses 24 audio signal contacts and 6 video coaxial contacts suited for RG59 coaxial cable.



Technical features

- Compliant with SAE-AS50151 & VG 95234 military standards
- Aluminium alloy shells with abrasion resistant black electrophoresis finish
- Audible lock-up recognition system guaranteed for over 2000 mating and unmating cycles
- Metal or rubber coated locking rings for easy coupling
- Bayonet lock with stainless steel safety pin
- Gold plated machined contacts for quality signal transmission and long term reliability
- High performance insulating insert allowing easy contact insertion and removal for fast assembling or repair operations
- Cable gland retention system, ensures waterproof sealing and good strain relief at the cable entry
- Heavy-duty metal cable grips with wire mesh are available on request
- IP67 waterproof (when mated) for outdoor applications
- IP67 caps for waterproof protection on unmated connectors



Inline and panel versions SV Series



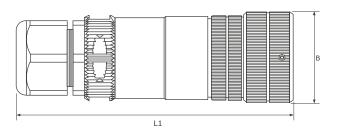






Overall dimensions

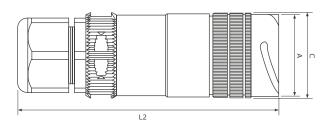
Inline and panel version



Inline female

Dimensions in mm

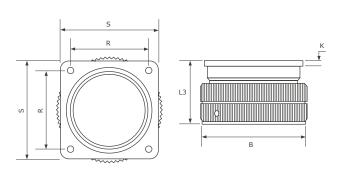
Shell	BØ	L1	Cable clamp	Ø Cable
size	Max	Max	metric	Min-Max
28	56.0	116	M32	



Inline male

Dimensions in mm

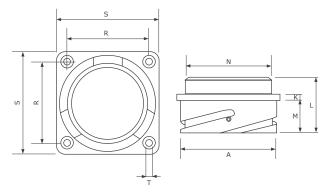
Shell size	AØ Max +0/-0.15	ØC Max	L2 Max	Cable clamp metric	Ø cable Min-Max
28	46.7	50	116	M32	7 - 25



Panel female

Dimensions in mm

size	<i>,</i>		к ±0.2		_	-
28	56.0	40.8	4	39.7	50.8	3.7



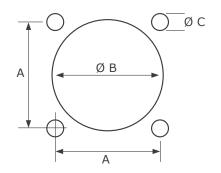
Panel male

Dimensions in mm

	AØ Max +0/-0.15				~	R ±0.1	S ±0.3	T H13
28	46.7	4	35.7	20.6	41.4	39.7	50.8	3.7

Cut-out dimensions

Panel connectors



Shell size	Α	ØВ	ØС
28	39.7 mm	41.5 mm	3.7 mm



Contacts for SV series

The secret behind a high quality connection

RG 59 | Size 20 | Crimp | Gold



GOLD Crimp RG 59 female Part No. **SVKP20GFC**





GOLD Crimp RG 59 male Part No. **SVKP59CXGMC**



GOLD Crimp male | size 20 Part No. **SVKP20GMC**

Stage box Cronista

Break-out or break-in stage boxes with SV combi multipin connector and 8 XLRs + 6 BNCs

Steel stage box for audio and video signal distribution. Break-out box version features a male Syntax SV 25/6 multipin audio/video combi connector with female XLRs and BNCs. The break-in version, on the other hand, features a female Syntax SV 25/6 with male XLRs and BNCs.





Break-in Box configuration

Signal distribution is obtained through the exclusive Syntax SV multipin connector (male or female), with 24 gold-plated pins for audio signal and 6 gold-plated pins for 75 Ohm video signal. Protection cap is provided.

Frame

Steel stage box with trapezoidal section and high mechanical resistance sides, painted in polyepoxidic anti-scratch black paint. Output connectors on the leaning sides guarantee easy channel identification whan connecting. Channel numbering by indelible laser-carving is also provided. 4 nylon feet sustain the base, ensuring stability and the necessary ground-detachment. On the side opposite to the multipin connector, three holes have been specifically designed for vertical hooking.

Break-out Box configuration

Audio connection through 8 XLR panel (female or male) 3-pin connectors, arranged in two lines of 4, one per each side. Video connection through 6 BNC panel connector s arranged in two lines of 3, one per each side, with earth connection detached from the frame.

Internal connections

The audio interconnection between multipin connector and XLR connectors is arranged through a shielded balanced cable, made of 2 signal conductors, 1 drain wire and aluminium foil screen. The multipin connector cabling is attained through crimping, while the XLR connector cabling through soldering. The video interconnection between the multipin connector and BNC connectors is carried out through RG59 75 Ohm double-shielded cable, made of a one-signal conductor, a copper tinned braid shield and an aluminium foil screen. Video channel cabling is carried out through crimping to guarantee a good mechanical resistance and a steady impedance, avoiding signal loss.



Syntax® SB series

Signal and power underneath a flawless suit

The Syntax SB connector's mechanical features ensure high quality, extreme durability and safe connections. The SB series is available in 16 different arrangement layouts for the inserts, with contacts ranging from size 0 to 16S, allowing transmission of power and signals. A typical application for the SB Series is the connection between HMI ballasts and lamps: the SB family includes connectors compatible with all major HMI lamp manufacturer specifications, covering 400W-20KW HMI ranges. Bayonet lock with roller pins ensures easy mating, granting high quality connections over a high number of coupling cycles.



Technical features

- Compliant with SAE-AS50151 & VG 95234 military standards
- Aluminium alloy shells with abrasion resistant black electrophoresis finish
- Metal or rubber coated locking rings for easy coupling
- Silver-plated crimp or solder-type contacts
- Bayonet lock stainless steel safety pin
- Audible lock-up recognition system guaranteed for over 2000 mating and unmating cycles
- Heavy-duty metal cable grips with wire mesh are available on request
- IP67 waterproof (when mated) for outdoor applications
- IP67 caps for waterproof protection on unmated connectors
- Standard insulating insert range -55° to 125° C (also available 70° to 200° C)





Insert arrangement layouts

Contact types & quantities



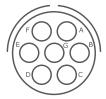


Arrangement	16S-1
Total contacts	7
Contact type(s)	Size 16S
Service rating	Α



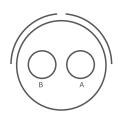
16-10

Arrangement	16-10
Total contacts	3
Contact type(s)	Size 12
Service rating	А



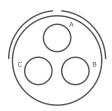
20-15

Arrangement	20-15
Total contacts	7
Contact type(s)	Size 12
Service rating	А



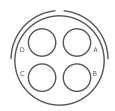
22-1

P	Arrangement	22-1
	Total contacts	2
С	ontact type(s)	Size 8
-	Service rating	D



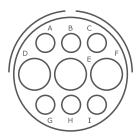
22-2

Arrangement	22-2
Total contacts	3
Contact type(s)	Size 8
Service rating	D



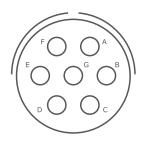
22-22

Arrangement	22-22
Total contacts	4
Contact type(s)	Size 8
Service rating	А



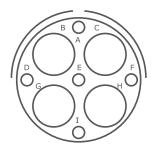
24-11

Arrangement	24-11
Total contacts	9
Contact type(s)	Size 8 (3)
	Size 12 (6)
Service rating	А



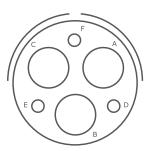
24-2

Arrangement	24-2
Total contacts	7
Contact type(s)	Size 12
Service rating	D



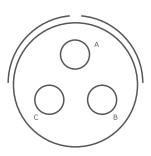
28A-9

Arrangement	28A-9
Total contacts	9
Contact type(s)	Size 4 (4)
	Size 16 (5)
Service rating	Α



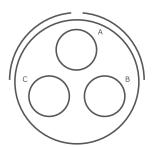
28-22

28-22
6
Size 4 (3) Size 16 (3)
D D



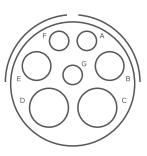
28-3

Arrangement	28-3
Total contacts	3
Contact type(s)	Size 8
Service rating	Е



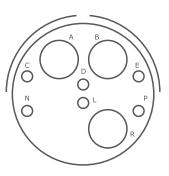
28-6

Arrangement	28-6
Total contacts	3
Contact type(s)	Size 4
Service rating	D



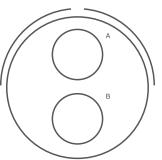
28-10

Arrangement	28-10
Total contacts	7
Contact type(s)	Size 4 (2) Size 8 (2) Size 12 (3)
Service rating	Α



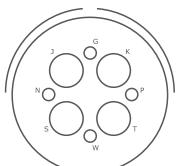
32A-9

Arrangement	32A-9
Total contacts	9
Contact type(s)	Size 4 (3) Size 16 (6)
Service rating	Α



32-5

Arrangement	32-5
Total contacts	2
Contact type(s)	Size 0
Service rating	D



40A-10

Arrangement	40A-10
Total contacts	8
Contact type(s)	Size 4 (4) Size 16 (4)
Service rating	D

Alternate insert rotations





















Example 1

Front view - Mating side - Female insert shell rotation

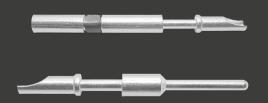
Example 1

Front view - Mating side - Male insert shell rotation

Rotation degrees

alternate insert rotations

	Insert type	16S-1	16-10	20-15	22-1	22-2	22-22	24-2	24-11	28A-9	28-22	28-3	28-6	28-10	32A-9	32-5	40A-10
	W	80	90	80	35	70	-	80	35	110	70	70	70	80	65	35	-
	Χ	-	180	-	110	145	110	-	110	250	145	145	145	110	135	110	-
•	Υ	-	270	-	250	215	250	-	250	260	215	215	215	250	225	250	-
		280	-	280	325	290	-	280	325	280	290	290	290	280	275	325	



Contacts for SB series

The secret behind a high quality connection

Male and female contacts | Silver - Solder Size 16S - 16 - 12 - 8 - 4 - 0

FEMALE contacts



SILVER solder | size 16S For arrangement type: 16S-1

Part No. SVKP16SFSs



SILVER solder | size 12 For arrangement type: 16-10, 20-15, 24-11, 24-2, 28-10 Part No. **SVKP12SFS**

SILVER solder | size 4
For arrangement type:

28A-9, 28-22, 28-6, 28-10, 32A-9, 40A-10

Part No. SVKP04SFS



SILVER solder | size 16 For arrangement type: 28A-9, 28-22, 32A-9, 40A-10 Part No. **SVKP16SFS**



SILVER solder | size 8 For arrangement type: 22-1, 22-2, 24-11, 28-3, 28-10 Part No. **SVKP08SFS**



SILVER solder | size 0 For arrangement type: 32-5

Part No. SVKP00SFS

MALE contacts



SILVER solder | size 16S For arrangement type: 16S-1

Part No. SVKP16SMSs



SILVER solder | size 12 For arrangement type: 16-10, 20-15, 24-11, 24-2, 28-10 Part No. **SVKP12SMS**

SILV For a

SILVER solder | size 4 For arrangement type: 28A-9, 28-22, 28-6, 28-10, 32A-9, 40A-10 Part No. **SVKP04SMS**



SILVER solder | size 16 For arrangement type: 28A-9, 28-22, 32A-9, 40A-10

Part No. **SVKP12SMS**



SILVER solder | size 8 For arrangement type: 22-1, 22-2, 24-11, 28-3, 28-10 Part No. **SVKP08SMS**

Part No. SVKPU8SMS



SILVER solder | size 0 For arrangement type: 32-5

Part No. **SVKP00SMS**

Insert service rating

Standard at sea level

Service rating	Operating voltage DC	Operating voltage AC
I	250 V	200 V
Α	700 V	500 V
D	1250 V	900 V
Е	1750 V	1250 V
В	2450 V	1750 V
С	4200 V	3000 V

Contacts rating

Size 0 - 4 - 8 - 12 - 16 - 16S contacts

Size	Max current	Rated current	Max voltage drop	Wire section (mm2)	Wire section AWG
0	245 A	150 A	53 mV	50÷60	0
4	135 A	80 A	85 mV	16÷20	4
8	73 A	46 A	65 mV	6÷8	8
12	41 A	23 A	63 mV	3	12
16	22 A	13 A	74 mV	1÷1,5	16
16S	22 A	13 A	74 mV	1÷1,5	16

Dielectric strength

Standard at sea level

Service rating	Minimum Flashover AC MS	Test voltage AC RMS (Hi Pot)
I	1400 V	1000 V
А	2800 V	2000 V
D	3600 V	2800 V
Е	4500 V	3500 V
В	5700 V	4500 V
C	8500 V	7000 V

Backshell and metal cable gland

for the Syntax SB Series

For more information see the cable gland section starting from page 48.









High conductive alloy machined contacts

Male and female | Solder or crimp Gold or silver plated

Our highly conductive copper alloy crimp or solder contacts, gold or silver plated, are available in spring-loaded or armored versions. The armored contact features a protective jacket that improves electrical conductivity and provides self-centered insertion for a seamless connection, lower operating temperature and increased number of mating cycles.



Choose the contacts you need

		Т	echnical dat Contacts rating		
Size	Max current	Rated current	Max voltage drop	Wire section (mm2)	Wire section AWG
20	10 A	7.5 A	83m V	0.15÷0.3	26÷22
18	7.5 A	7.5 A	83m V	0.15÷0.6	26÷20
16	22 A	13 A	74m V	1÷1,5	18÷16
16S	22 A	13 A	74mV	1÷1,5	18÷16
12	41 A	23 A	63m V	3	12
8	73 A	46 A	65m V	6÷8	8
4	135 A	80 A	85m V	16÷20	4
0	245 A	150 A	53m V	50÷60	0

Crimp female contacts

Silver - Gold



Gold | Armored Part No. SVKP20GFC



Size 16

Silver | Armored

Part No. SVKP16SFK



Size 12

Gold for 4 mm² Part No. SPKP12GFC4_SPLIT

Size 18

Gold | Armored Part No. SVKP18GFK



Size 16

Gold | Armored Part No. SVKP16GFK

Size 12

Silver for 4 mm² Part No. SPKP12SFC4_SPLIT



Gold Part No. SVKP16GFC



Size 12

Gold for 2,5 mm² Part No. SPKP12GFC_SPLIT

Size 12

Gold for 2,5 mm² Part No. SVKP12GFC



SIlver Part No. SVKP16SFC



Size 12

Silver for 2,5 mm² Part No. SPKP12SFC_SPLIT



Size 12

Silver for 2,5 mm² Part No. SVKP12SFC



Size 12

Gold for 4 mm² Part No. SVKP12GFC4



Size 12

Silver for 4 mm² Part No. SVKP12SFC4

Solder female contacts

Silver - Gold



Size 16

Gold
Part No. SVKP16GFS



Gold | Armored Part No. **SVKP16GFZ**



Silver Part No. **SVKP16SFSS**



Silver | Armoned Part No. **SVKP16SFZ**



Size 16S
Silver
Part No. SVKP16SFSS



Size 12

Gold
Part No. SVKP12GFS_SPLIT



Size 12
Silver
Part No. SVKP12SFS_SPLIT



Size 12

Gold
Part No. SVKP12GFS



Size 12
Silver
Part No. SVKP12SFS



Size 8
Silver
Part No. SVKP08SFS



Size 4
Silver
Part No. SVKP04SFS



Size 0
Silver
Part No. SVKP00SFS

Crimp male contacts

Silver - Gold



Size 20
Gold
Part No. SVKP20GMC



Size 18
Gold
Part No. SVKP18GMC



Size 16Silver
Part No. **SVKP16SMC**



Size 16
Gold
Part No. SVKP16GMC



Size 12

Gold
for 2,5 mm²
Part No. SVKP12GMC



Size 12
Silver
for 2,5 mm²
Part No. SVKP12SMC



Gold for 4 mm² Part No. **SVKP12GMC4**



Size 12
Silver
for 4 mm²
Part No. SVKP12SMC4



Solder male contacts

Silver - Gold



Size 16
Silver
Part No.

SVKP16SMS



Size 16

Gold
Part No. SVKP16GMS



Size 16SSilver
Part No. **SVKP16SMSs**



Gold Part No. **SVKP12GMS**



Size 12Silver
Part No. **SVKP12SMS**



Size 8
Silver
Part No. SVKP08SMS



Size 4
Silver
Part No. SVKP04SMS



Size 0 Silver Part No. SVKP00SMS

Coax video RG 59 | Gold | Crimp | Female - Male RG 59 Female Gold Part No. SVKP20GFC RG 59 Male Gold Part No. SVKP59CXGMC







Cable protection and management

Wire mesh strain relief, hanger grip and pulling grip

Explore our full range of wire mesh cable management solutions for our Syntax connectors, designed to ease optimal cable laying and organization and to provide protection from excessive bending due to gravity or any unwanted external force, in order to sensibly increase the life span of your connections.

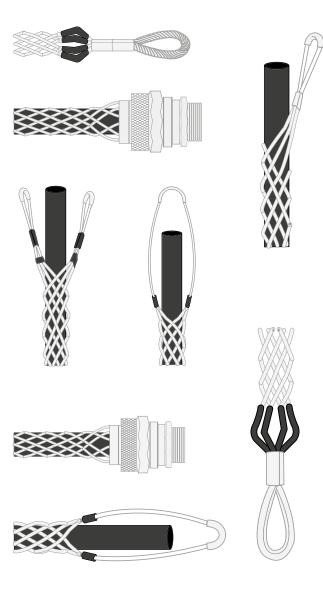


The right technology for long-lasting connections

Discover our cable management solutions

The quality of a connection depends on many factors. Reliable connectors are essential, of course, and the cables are a top priority too. Choosign high quality products made with the best materials is important, but there are other parts of the job that should not be overlooked. How you lay a cable, how you protect it from unwanted stresses, how you make sure it will be safeguarded from external elements that might possibly damage your connections over time, these decisions are all integral to achieve highly reliable connections.

Our accessories are thoughtfully designed and manufactured for ideal cable management, handling and protection.



Strain Reliefs

Thoughtfully designed to reduce tension on cables and, therefore, stress related damages to your connections due to excessive bending. Available in a wide range of thread sizes and overall diameters to fit any connector and cable combinations.

Hanger grips

Heavy duty wire mesh hangers are designed to ensure optimal support and right retention of the cable without any sliding or scraping of the external jacket. Different styles and sizes are available in stock for any kind of application, both indoors or outdoors.

Pulling grips

Created to provide the operators an efficient way to pull cables through ducts or other spaces in the safest possible way. Made to be extremely resistant and conveniently reusable, and fit to a large number of applications. Different models available.

Protecting your cables from unwanted stress

Discover the new range of wire mesh strain reliefs

These kellums cable grips, also referred to as "basket weave", are made up of a woven steel wire mesh and a watertight gland nut.

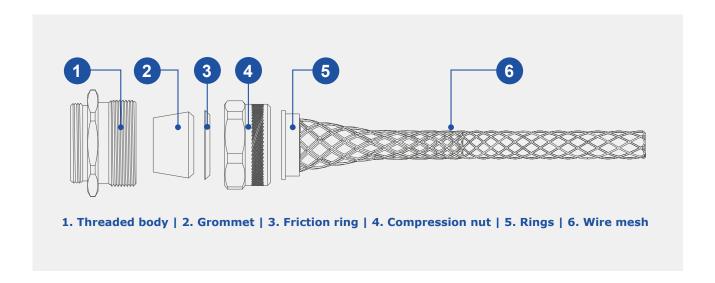


Wire mesh strain relief

Preserve the integrity of your connections

These cable grips, sometimes referred to as "basket weave", are made up of a woven steel wire mesh and a watertight gland nut. This strain relief system is designed to be anti-bending, offering the following key benefits:

- Impossibility to pull out the cable from the strain relief through lateral force; the more the cable is pulled the tighter the grip becomes.
- Prevention of cable damage caused by flexing. Such a grip design is suited for large diameter cables which require a better protection of the internal conductors.





Models and sizes

Available in multiple thread dimensions and suitable for different cable ODs.

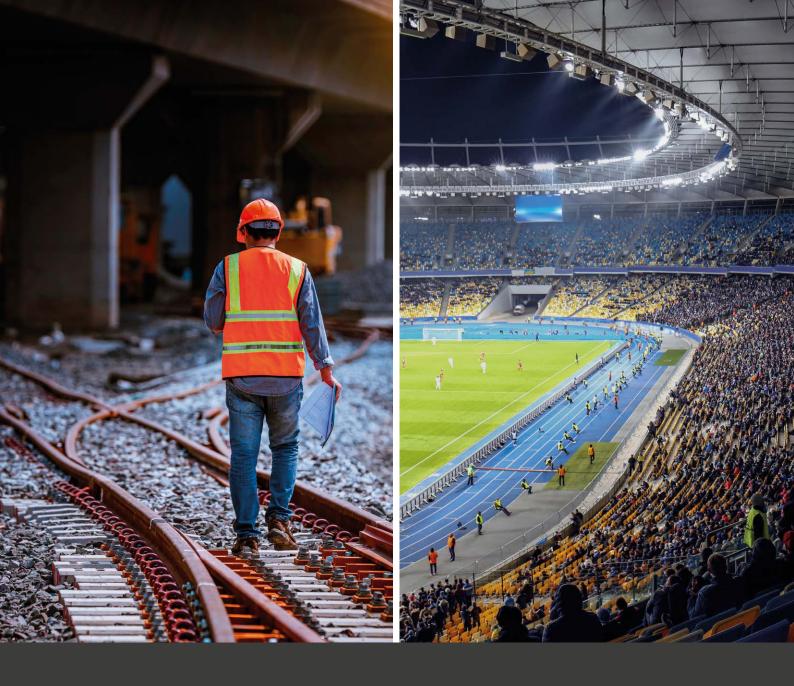


Check with us for current availability, some models might not be ready in stock at the moment.

Available models

Part N.	Thread size	Cable range
7ZK16A048B063	M16 x 1.5	Ø 4.75 to 6.35 mm (.187" to .250")
7ZK16A064B079	M16 x 1.5	Ø 6.35 to 7.92 mm (.250" to .312")
7ZK16A080B095	M16 x 1.5	Ø 7.92 to 9.53 mm (.312" to .375")
7ZK16A096B111	M16 x 1.5	Ø 9.53 to 11.10 mm (.375" to .437")
7ZK20A048B063	M20 x 1.5	Ø 4.75 to 6.35 mm (.187" to .250")
7ZK20A064B095	M20 x 1.5	Ø 6.35 to 9.53 mm (.250" to .375")
7ZK20A096B127	M20 x 1.5	Ø 9.53 to 12.70 mm (.375" to .500")
7ZK20A127B158	M20 x 1.5	Ø 12.70 to 15.88 mm (.500" to .625")
7ZK25A096B127	M25 x 1.5	Ø 9.53 to 12.70 mm (.375" to .500")
7ZK25A127B158	M25 x 1.5	Ø 12.70 to 15.88 mm (.500" to .625")
7ZK25A159B190	M25 x 1.5	Ø 15.88 to 19.05 mm (.625" to .750")
7ZK25A191B222	M25 x 1.5	Ø 19.05 to 22.23 mm (.750" to .875")
7ZK30A112B140	M30 x 1.5	Ø 11.2 to 14.0 mm (.44" to .56")
7ZK30A142B175	M30 x 1.5	Ø 14.2 to 17.5 mm (.56" to .69")
7ZK30A160B191	M30 x 1.5	Ø 16.0 to 19.1 mm (.63" to .75")
7ZK30A191B224	M30 x 1.5	Ø 19.1 to 22.4 mm (.75" to .88")

Part N.	Thread size	Cable range
7ZK30A224B254	M30 x 1.5	Ø 22.4 to 25.4 mm (.88" to 1.00")
7ZK32A112B140	M32 x 1.5	Ø 11.2 to 14.0 mm (.44" to .56")
7ZK32A142B175	M32 x 1.5	Ø 14.2 to 17.5 mm (.56" to .69")
7ZK32A160B191	M32 x 1.5	Ø 16.0 to 19.1 mm (.63" to .75")
7ZK32A191B224	M32 x 1.5	Ø 19.1 to 22.4 mm (.75" to .88")
7ZK32A224B254	M32 x 1.5	Ø 22.4 to 25.4 mm (.88" to 1.00")
7ZK40A191B224	M40 x 1.5	Ø 19.1 to 22.4 mm (.75" to .88")
7ZK40A224B254	M40 x 1.5	Ø 22.4 to 25.4 mm (.88" to 1.00")
7ZK40A254B285	M40 x 1.5	Ø 25.4 to 28.58 mm (1.00" to 1.125")
7ZK40A286B317	M40 x 1.5	Ø 28.58 to 31.75 mm (1.125" to 1.250")
7ZK40A318B349	M40 x 1.5	Ø 31.75 to 34.92 mm (1.250" to 1.375")
7ZK50A191B224	M50 x 1.5	Ø 19.1 to 22.4 mm (.75" to .88")
7ZK50A224B254	M50 x 1.5	Ø 22.4 to 25.4 mm (.88" to 1.00")
7ZK50A254B285	M50 x 1.5	Ø 25.4 to 28.58 mm (1.00" to 1.125")
7ZK50A286B317	M50 x 1.5	Ø 28.58 to 31.75 mm (1.125" to 1.250")
7ZK50A318B349	M50 x 1.5	Ø 31.75 to 34.92 mm (1.250" to 1.375")





IP67 protective caps

Waterproof your connectors

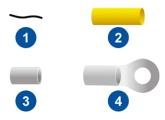
Environmental caps are available on request and provide complete IP67 protection on unmated connectors. The use of protective caps results in extended life span of the connectors, as the mating threads are protected against damage from impacts, and improved safety, as contacts are protected against dust and water even when the connectors are not mated.

Our IP67 caps ensure complete waterproof protection.





Size	Series	Connector versions	Part No. cap for female Part No. cap	
18	SPK	4 pin	SPK004TFSC	SPK004TMSC
20	SVK - SHD	13 - 19 pin	SVK013TFSC	SVK013TMSC
20	SB	20-15	SVK013TFSC	SVK013TMSC
22	SPK	8 pin	SPK008TFSC	SPK008TMSC
22	SB	22-1 22-2 22-22	SPK008TFSC	SPK008TMSC
24	SVK - SHD	25 pin	SVK025TFSC	SVK025TMSC
24	SB	24-11 24-2	SVK025TFSC	SVK025TMSC
28	SVK - SHD	37 pin	SVK037TFSC	SVK037TMSC
28	SVS	72 pin	SVK037TFSC	SVK037TMSC
28	SV	-	SVK037TFSC	SVK037TMSC
28	SB	28A-9 28-22 28-3 28-6 28-10	SVK037TFSC	SVK037TMSC
32	SVK - SHD	54 pin	SVK054TFSC	SVK054TMSC
32	SVS	101 pin	SVK054TFSC	SVK054TMSC
32	SPK	25 pin	SPK025TFSC	SPK025TMSC
32	SB	32A-9 32-5	SVK054TFSC	SVK054TMSC
40	SVK - SHD	85 100 150 pin	SVK085TFSC	SVK085TMSC
40	SB	40A-10	SVK085TFSC	SVK085TMSC



Dust cap lacing

- 1. Black steel lanyard (teflon coated)
- 2. Heat shrink tube
- 3. Lanyard crimp collet (for inline connectors' caps)
- 4. Lanyard crimp lug (for caps on panel-mount)

For positive lacing, our IP67 caps are supplied with a special high-resistance lanyard made up of seven stainless strands, coated with anti-scraping black teflon tubing. On cable connectors, the lanyard is laced to a specific housing on the connector's backshell.







Syntax® Cable Glands

For Bayonet multipin series

Discover our range of cable glands and accessories, designed to offer optimal grip and protection and available in multiple sizes and types: the plastic metric version, built in standard and spiral flex models, or the metal version.

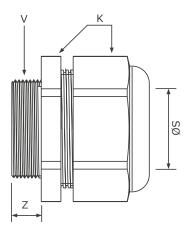
Metric cable gland

Our metric cable glands are designed for a perfect grip and effortless spanner tight seal. Provided with Neoprene Seal for a perfect IP68 - 5 bar watertight sealing; Blade System for optimal strain relief and cable protection combined with a generous clamping range; multiple threads for secure and rapid assembly. The cable clamping system has been designed not to come loose in case of cord vibration or torsion. Cable gland types and clamping ranges vary according to connector size.



Available models

Metric cable glands





	Code	Thread size (V)	Model type	Length of thread (Z)	Clamping range (SØ)	Spanner size (K)	Part No.
	ME	M 16 x 1.5	Normal	8.0 mm	5.0 - 10.0 mm	SW 22	7ZM16EL
	MH	M 20 x 1.5	Normal	9.0 mm	8.0 - 13.0 mm	SW 24	7ZM20LN
	MI	M 20 x 1.5	Oversize	10.0 mm	10.0 - 14.0 mm	SW 27	7ZM20EL
	MJ	M 25 x 1.5	Reduced	10.0 mm	8.0 - 13.0 mm	SW 30	7ZM25LRN
	ML	M 25 x 1.5	Oversize	11.0 mm	13.0 - 18.0 mm	SW 33	7ZM25EL
	MN	M 32 x 1.5	Reduced	10.0 mm	10.0 - 15.0 mm	SW 36	7ZM32LRN
	MM	M 32 x 1.5	Normal	10.0 mm	11.0 - 21.0 mm	SW 41	7ZM32LN
	MO	M 32 x 1.5	Oversize	11.0 mm	18.0 - 25.0 mm	SW 42	7ZM32EL
	MQ	M 40 x 1.5	Reduced	12.0 mm	15.0 - 23.0 mm	SW 46	7ZM40LRN
	MP	M 40 x 1.5	Normal	12.0 mm	19.0 - 28.0 mm	SW 46	7ZM40LN
	MR	M 40 x 1.5	Oversize	13.0 mm	22.0 - 32.0 mm	SW 53	7ZM40EL
	MT	M 50 x 1.5	Normal	12.0 mm	27.0 - 35.0 mm	SW 52	7ZM50LN
_	MU	M 50 x 1.5	Oversize	13.0 mm	32.0 - 38.0 mm	SW 60	7ZM50EL
	MW	M 63 x 1.5	Oversize	13.0 mm	36.0 - 48.0 mm	SW 68	7ZM63EL

Plastic spiral gland with metric thread

The spiral gland prevents the cable from damage caused by bending at the connector-cable interface.

Therefore, it is commonly used with audio cable, where small signal conductors can be easily damaged.



Cable Clamp - Metric

V	ØS	K	Z	L1
(thread size)	(clamping range)			
M 20 x 1.5	6 - 12 mm	25 mm	9 mm	101 mm
M 20 x 1.5	7 - 13 mm	25 mm	9 mm	101 mm
M 20 x 1.5	10 - 14 mm	25 mm	9 mm	101 mm
M 25 x 1.5	8 - 13 mm	30 mm	10 mm	125 mm
M 25 x 1.5	9 - 17 mm	30 mm	10 mm	125 mm
M 25 x 1.5	13 - 18 mm	30 mm	10 mm	125 mm
M 32 x 1.5	7 - 15 mm	36 mm	10 mm	149 mm
M 32 x 1.5	11 - 21 mm	36 mm	10 mm	149 mm
M 32 x 1.5	18 - 25 mm	36 mm	10 mm	149 mm



53057-20C

Backshell and metal cable gland

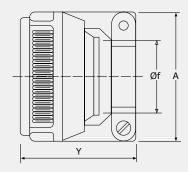
for the Syntax SB Series

Besides ensuring an excellent mechanical strain relief keeping the cable in the centre of the connector, metal cable glands are provided with an internal rubber cone bushing ensuring IP67 waterproof protection. The screws in stainless steel have elastic anti-vibration washers. Clamping range varys according to connector size as shown in the following table.

Models and dimensions

Dimensions in mm

С	Code	Clamping Range ØF	Y Max	A ±0.2	Arrangement types
8C	C3	8-13.58	32.3	28.1	16S-1 / 16-10
12C	C5	11.3-19	35.7	37.3	20-15 / 22-1 / 22-2 / 22-22
16C	C6	15.5-23.8	39	43.2	24-2 / 24-11 / 28A-9 / 28- 22 / 28-3 / 28-6 / 28-10
20C	C7	23.4-31.8	44.8	54	32A-9 / 32-5
28C	C9	30-41.3	52.3	63.4	40A-10



Bushing

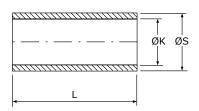
Bushing is made of elastometric rubber and used with the metal cable clamp. It allows the use of cables with a diameter smaller than the nominal one.

Models and dimensions

Dimensions in mm

Part No.	For metal clamp	ØS	ØK Open	ØK Closed	L
SBBC3	C3	13.6	11.1	5.6	50.8
SBBC5	C5	18.9	13.74	6.85	50.8
SBBC6	C6	23.7	19	10.9	50.8
SBBC7	C7	31.6	23.8	15.74	50.8
SBBC9	C9	41.1	31.75	20.7	50.8







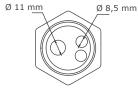
Multiway grommets

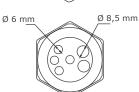
For Syntax multipin connectors

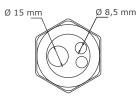
Discover our solutions for effective and convenient multiple cable management.

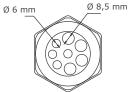


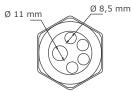
Versions for M40 cable glands

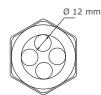


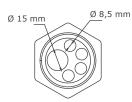


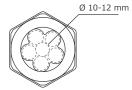




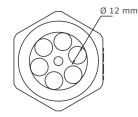


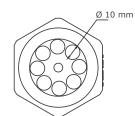


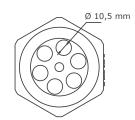




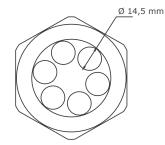
Versions for M50 cable glands

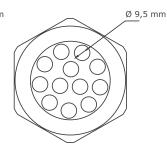


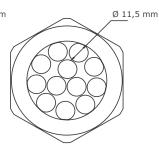


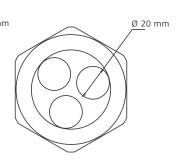


Versions for M63 cable glands







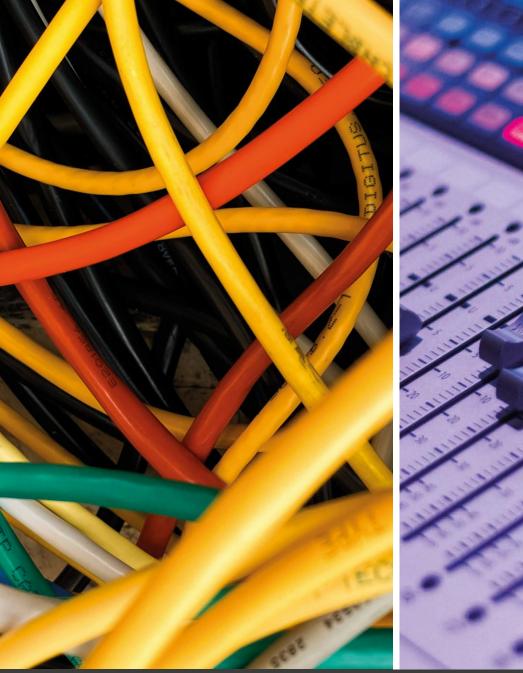


M50 to M63 cable gland adapter

for Syntax multipin connectors

This adapter has been designed to allow the use of bigger M63 cable glands with the inline body of smaller M50 connectors, such as the 25 pin SPK model, in order to use a wider range of multiway grommets.







Found your connector? Now pick the cable!

Cables for Bayonet connectors series

Flexible, easy to handle, all in one professional cables for almost limitless applications. Robust and super easy for fast wiring.

Syntax Analog cables Syntax Digital cables Syntax Speaker cables Syntax Hybrid Cable

Syntax cables

compatible with SVK - SHD and SVS series



Analog Cables

Part No.	Pair	Diameter	Series
7YPR04SX	4	9,6	SVK - SHD
7YPR08SX	8	12,2	SVK - SHD
7YPR12SX	12	14,5	SVK - SHD
7YPR16SX	16	16,3	SVK - SHD
7YPR24SX	24	20,8	SVK - SHD - SVS
7YPR32SX	32	22,8	SVK - SHD - SVS
7YPR40SX	40	25,2	SVK - SHD
7YPR48SX	48	27,0	SVK - SHD

Digital Cables

Part No.	Pair	Diameter	Series
7YDPR02SX	2	9,6	SVK - SHD
7YDPR04SX	4	11,2	SVK - SHD
7YDPR08SX	8	14,8	SVK - SHD
7YDPR0814SX	8	13	SVK - SHD
7YDPR0814SXPUR	8	13	SVK - SHD
7YDPR12SX	12	17,4	SVK - SHD
7YDPR1214SX	12	17,0	SVK - SHD
7YDPR1214SXPUR	12	16,5	SVK - SHD
7YDPR16SX	16	19,5	SVK - SHD



Syntax cables

compatible with SPK

Speaker Cables

Part No.	Wires	Diameter	Series
7Z2SX25	2	8,8	SPK 25 pin
7Z2SX40	2	11,4	SPK 8, 25 pin
7Z4SX25	4	10,5	SPK 4 and 8 pin
7Z4SX40	4	13,5	SPK 4, 25 pin
7Z8SX25	8	14	SPK 8 pin
7Z8SX40	8	20	SPK 8, 25 pin
7Z24SX40	24	27,5	SPK 25 pin



Syntax cables

compatible with SV series

Hybrid Cable

6 x video + 8 x digital | Diameter Ø 24,5 mm Part No. **7YVD6DG8HD**



Syntax® Tools

Essential to connecting

Tools for crimping, insertion & removal of contacts and tightening tools for Syntax Bayonet multipin connectors series.



Manual crimping tool

For 16-18-20 contact sizes

The manual crimping tool AF8 is compliant with MIL-DTL-22520/1 and AS22520/1. It is suitable for all wire gages from 12 to 26 AWG. The 8-point crimping of the AF8 tool ensures maximum strength and resistance on the crimped connection. Special indent configurations and gaging are available on request. The tool must be used with a military standard turret positioner, which is easily fitted on the crimping tool by orienting the head in the keyed position, and by tightening the hex socket screws supplied. The precision ratchet controls cycling of the tool in both directions. This ensures the same accurate crimp every time. Positive crimp depth is controlled by an 8 position selector knob located on the tool frame, allowing the operator to select the setting for the right wire. The setting can be secured by use of a locking pin or safety wire. Other than keeping the unit clean and properly stored when not in service, no operator maintenance is required.



Manual crimping tool Part No. SVKTCRIMP



Turret positioner Part No. SVKTOR

Pneumatic crimp tool

For 11-12-16-18-20 contact sizes



Our pneumatic crimping tools are known for cost saving trouble-free operations and their adaptability both in military and industrial programs. Thanks to their compact size and light weight, our pneumatic tools are as easy to use as a hand tool. The bench mount support and foot valve complete the set, allowing fast and safe crimping operations. The bench mount allows the tool to be secured at virtually any angle at the operator's will. The foot valve, when installed in-line with an air supply, makes a portable system which is adaptable to any work bench. Air supply requirements are 5.5 to 8.0 atmospheres clean dry air. The system uses standard air fitting readily available in stores.



Pneumatic crimp
Part Number SVKTCRIMP-A



Foot valve
Part Number SVKTCRIMP-B



Adjustable bench mount
Part Number SVKTCRIMP-C



Hydraulic crimping tool 45kN

For size 4 and size 8 contacts

Lightweight and compact, this tool is ideal to crimp connectors on overhead lines and general electric applications. Thanks to spring loaded handles, you can use the tool and crimp contacts with just one hand, with the other hand free to position the connector. For easier operations, the tool head can be rotated by 180 degrees. The built-in safety valve will bypass the oil supply when the maximum pressure is reached. The pressure release system can be easily operated at any stage of the compression.

Part No. SBH-CRIMP-A

Crimping accessories

SBH	ME1	for cable 4 to 6 mm ²
SBH	ME2	for cable 10 mm ²
SBH	ME3	for cable 16 mm ²
SBH	ME5	for cable 25 mm ²







Insertion tools

Insertion tools for male and female contacts (using guide pins is recommended for female contacts).

Part No. **SVKTINS12**Part No. **SVKTINS16**Part No. **SVKTINS18/20**



Removal tool

Only use the recommended removal tool to remove a contact or adjust its position in the cavity.

Part No. **SVKTESTR11**Part No. **SVKTESTR12**Part No. **SVKTESTR16**



Customized wrench

Part Number **SVKT - KSW**



Strap wrench

Part Number SVKT - KSTRAP

Tightening tools

Once wiring is carried out, the connector can be easily locked with our customized wrench or the strap wrench, which provides best grip on circular knurling.

Guide pins

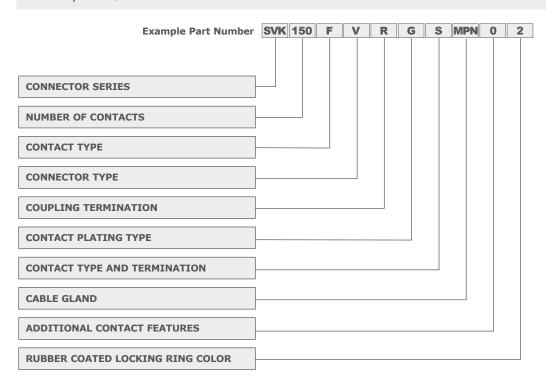
for female contacts

Guide pins are used to insert female contacts only. Remove the guide pin from the inserted contact and use it for the next contact.

Part No. SVKT20GP | SVKT18GP | SVKT16GP SVKT12GP | SVKT59GP



Syntax® SVK Series



Connector Series

SVK Series (13, 19, 25, 37, 54, 85, 100, 150 pin)

Number of Contacts

013 054 019 085 025 100 037 150

Contact Type

M Male F Female

Connector Type

V Inline

P Panel

Coupling Termination

With ramps

H Aluminium black locking ring

R Rubber coated locking ring

Contact Plating Type

S Silver (13, 19, 25, 37, 54, 85 pin) **G** Gold (13, 19, 25, 37, 54, 85, 100, 150 pin)

N No contact

Contact type and termination

c Spring loaded crimp (13, 19, 25, 37, 54, 85 pin)

S Spring loaded solder (13, 19, 25, 37, 54, 85 pin)

P Spring loaded pcb (13, 19, 25, 37, 54, 85 pin)

N No contact

K Armored crimp contact (13, 19, 25, 37, 54, 85, 100, 150 pin)

Z Armored solder contact (13, 19, 25, 37, 54, 85, 100, 150 pin)

Cable gland

MHN Thread size M20 x 1.5 | Clamping range 8-13mm (SVK 13-19 pins)

MIN Thread size M20 x 1.5 | Clamping range 10-14mm (SVK 13-19 pins)

MJN Thread size M25 x 1.5 | Clamping range 8-13mm (SVK 25 pins)

MLN Thread size M25 x 1.5 | Clamping range 13-18mm (SVK 25 pins)

MNN Thread size M32 x 1.5 | Clamping range 10-15mm (SVK 37-54 pins) MMN Thread size M32 x 1.5 | Clamping range 11-21mm (SVK 37-54 pins)

MON Thread size M32 x 1.5 | Clamping range 18-25mm (SVK 37-54 pins)

MQN Thread size M40 x 1.5 | Clamping range 15-23mm (SVK 85-100-150 pins)

MPN Thread size M40 \times 1.5 | Clamping range 19-28mm (SVK 85-100-150 pins)

MRN Thread size M40 x 1.5 | Clamping range 22-32mm (SVK 85-100-150 pins)

MSF Metric spiral flex (SVK 13-19-25-37-54 - Check clamping range options before ordering)

M00 Without cable gland

Additional contact features

T Inserted solder termination contacts

O Not pre-installed

2 Reduced crimp terminal (Wire section AWG 26÷20 / 0,15÷0,6mm²)

Rubber coated locking ring color (when appliable)



Optional Accessories (to be ordered separately)

Strain Relief (other models available, see website)

7ZK20A096B127 M20 x 1.5 Ø 9.53 to 12.70 mm (.375" to .500")

7ZK20A127B158 M20 x 1.5 Ø 12.70 to 15.88 mm (.500" to .625") **7ZK25A127B158** M25 x 1.5 Ø 12.70 to 15.88 mm (.500" to .625")

7ZK32A112B140 M32 x 1.5 Ø 11.2 to 14.0 mm (.44" to .56")

7ZK32A142B175 M32 x 1.5 Ø 14.2 to 17.5 mm (.56" to .69")

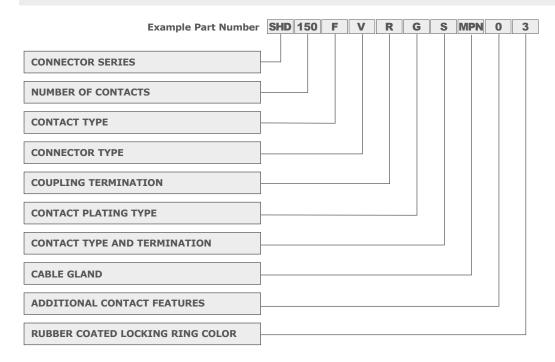
7ZK32A160B191 M32 x 1.5 Ø 16.0 to 19.1 mm (.63" to .75") **7ZK32A191B224** M32 x 1.5 Ø 19.1 to 22.4 mm (.75" to .88")

7ZK40A191B224 M40 x 1.5 Ø 19.1 to 22.4 mm (.75" to .88")

7ZK40A224B254 M40 x 1.5 Ø 22.4 to 25.4 mm (.88" to 1.00") **7ZK40A254B285** M40 x 1.5 Ø 25.4 to 28.58 mm (1.00" to1.125")

7ZK40A286B317 M40 x 1.5 Ø 28.58 to 31.75 mm (1.125" to 1.250")

Syntax® SHD Series



Connector Series

SHD Series (Inline female - Inline male - Panel female) **SVK** Series (Panel male)

Number of Contacts

013

019 025

037

054

085

100

150

Contact Type

M Male

F Female

Connector Type

V Inline

P Panel

Coupling Termination

- With ramps

D Heavy-duty aluminium black locking ring

R Rubber coated locking ring

Contact plating type

S Silver (13, 19, 25, 37, 54, 85 pin)

G Gold (13, 19, 25, 37, 54, 85 pin)

N No contact

Contact Type and Termination

C Spring loaded crimp (13, 19, 25, 37, 54, 85 pin)

S Spring loaded solder (13, 19, 25, 37, 54, 85 pin)

P Spring loaded pcb (13, 19, 25, 37, 54, 85 pin)

N No contact

K Armored crimp contact

(13, 19, 25, 37, 54, 72, 85, 100, 101, 150 pin)

Z Armored solder contact

(13, 19, 25, 37, 54, 72, 85, 100, 101, 150 pin)

Cable gland

MHN Thread size M20 x 1.5 | Clamping range 8-13mm (13-19 pin) MIN Thread size M20 x 1.5 | Clamping range 10-14mm (13-19 pin)

MJN Thread size M25 x 1.5 | Clamping range 8-13mm (25 pin)

MLN Thread size M25 x 1.5 | Clamping range 13-18mm (25 pin)

MNN Thread size M32 x 1.5 | Clamping range 10-15mm (37-54 pin)

MMN Thread size M32 x 1.5 | Clamping range 11-21mm (37-54 pin)

MON Thread size M32 x 1.5 | Clamping range 18-25mm (37-54 pin)

MQN Thread size M40 x 1.5 | Clamping range 15-23mm (85-100-150 pin)

MPN Thread size M40 x 1.5 | Clamping range 19-28mm (85-100-150 pin) MRN Thread size M40 x 1.5 | Clamping range 22-32mm (85-100-150 pin)

MSF Metric spiral flex (13-19-25-37-54 pin - Check clamping range options

before ordering)

M00 Without cable gland

Additional contact features

T Inserted solder termination contacts

O Not pre-installed

2 Reduced crimp terminal (Wire section AWG 26÷20 / 0,15÷0,6mm²)

Rubber coated locking ring color (when appliable)



Optional Accessories (to be ordered separately)

Strain Relief (other models available, see website)

7ZK20A096B127 M20 x 1.5 Ø 9.53 to 12.70 mm (.375" to .500") **7ZK20A127B158** M20 x 1.5 Ø 12.70 to 15.88 mm (.500" to .625")

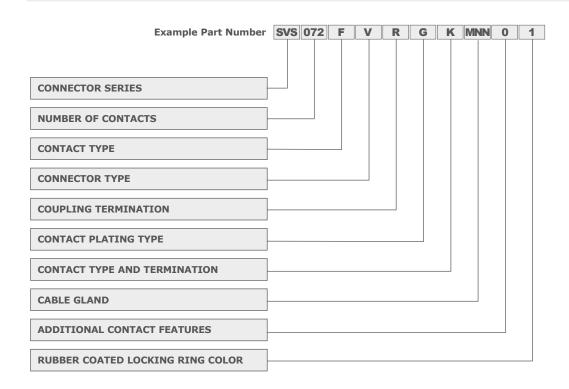
7ZK25A127B158 M25 x 1.5 Ø 12.70 to 15.88 mm (.500" to .625") **7ZK32A112B140** M32 x 1.5 Ø 11.2 to 14.0 mm (.44" to .56") **7ZK32A142B175** M32 x 1.5 Ø 14.2 to 17.5 mm (.56" to .69")

7ZK32A160B191 M32 x 1.5 Ø 16.0 to 19.1 mm (.63" to .75") **7ZK32A191B224** M32 x 1.5 Ø 19.1 to 22.4 mm (.75" to .88")

7ZK40A191B224 M40 x 1.5 Ø 19.1 to 22.4 mm (.75" to .88") **7ZK40A224B254** M40 x 1.5 Ø 22.4 to 25.4 mm (.88" to 1.00")

7ZK40A254B285 M40 x 1.5 Ø 25.4 to 28.58 mm (1.00" to1.125") **7ZK40A286B317** M40 x 1.5 Ø 28.58 to 31.75 mm (1.125" to 1.250")

Syntax® SVS Series



Connector Series

SVS Series (72, 101 pin)

Number of Contacts

072 101

Contact Type

M Male

F Female

Connector Type

V Inline

P Panel

Coupling Termination

- With ramps

H Aluminium black locking ring

R Rubber coated locking ring

Contact Plating Type

G Gold (72, 101 pin)

N No contact

Contact type and termination

N No contact

K Armored crimp contact (72, 101 pin)

Z Armored solder contact (72, 101 pin)

Cable gland

MNN Thread size M32 x 1.5 | Clamping range 10-15mm (SVS 72-101 pins) **MMN** Thread size M32 x 1.5 | Clamping range 11-21mm (SVS 72-101 pins) **MON** Thread size M32 x 1.5 | Clamping range 18-25mm (SVS 72-101 pins) **MSF** Metric spiral flex (Check clamping range options before ordering) **M00** Without cable gland

Additional contact features

 ${f T}$ Inserted solder termination contacts

0 Not pre-installed

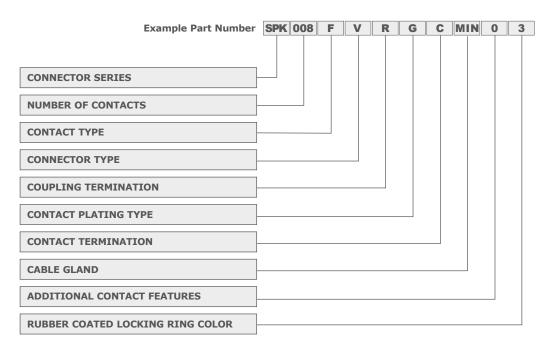
Rubber coated locking ring color (when appliable)



Optional Accessories (to be ordered separately)

Strain Relief (other models available, see website) **7ZK32A112B140** M32 \times 1.5 Ø 11.2 to 14.0 mm (.44" to .56") **7ZK32A142B175** M32 \times 1.5 Ø 14.2 to 17.5 mm (.56" to .69") **7ZK32A160B191** M32 \times 1.5 Ø 16.0 to 19.1 mm (.63" to .75") **7ZK32A191B224** M32 \times 1.5 Ø 19.1 to 22.4 mm (.75" to .88")

Syntax® SPK Series



Connector Series

SPK Series (4, 8, 25 pin compliant Mil C5015 & VG95234)

Number of Contacts

004 800 025

Contact Type

M Male F Female

Connector Type

V Inline P Panel

Coupling Termination

- With ramps (4, 8, 25 pin)
- **D** Heavy-duty aluminium black locking ring (4, 25 pin)
- L Aluminium black locking ring (8 pin)
- R Rubber coated locking ring (8, 25 pin)

Contact Plating Type

S Silver G Gold N No contact

Contact Type and Termination

- C Spring loaded crimp
- S Spring loaded solder
- P Spring loaded pcb
- N No contact

Cable Gland (more options available)

MIN Metric M20x 1.5 Ø cable 10 - 14 mm (SPK 4 pin)

MMN Metric M32 x 1.5 \emptyset cable 11 - 21 mm (SPK 8 pin)

MON Metric M32 x 1.5 Ø cable 18 - 25 mm (SPK 8 pin)

MRN Metric M40 x 1.5 Ø cable 22 - 32 mm (SPK 25 pin)

MUN Metric M50 x 1.5 Ø cable 32 - 38 mm (SPK 25 pin)

MSF Metric spiral flex (4, 8 pins - Check clamping range options before ordering)

MF4 4-way grommet for M40 cable gland (only for 8 pin)

C5N 12C Metal cable gland (only for 8 pin)

M00 Without cable gland (4, 8 pin)

M05 Without cable gland (M50 backshell version for SPK 25pin)

M04 Without cable gland (M40 backshell version for SPK 25pin)

Additional contact features

- T Pre-installed solder contacts
- O Contacts not installed No further details
- 4 4mm² Crimp terminal wire section
- 6 6mm² Crimp terminal wire section

Rubber coated locking ring color (when appliable)



Optional Accessories (to be ordered separately)

Grommet + adapter system (25 pin only)

SPK025AD-M63-3W M63 cable gland + adapter and 3-way grommet for SPK 25 pin (Ø hole 20 mm)

SPK025AD-M63-6W M63 cable gland + adapter and 6-way grommet for SPK 25 pin (Ø hole 14.5 mm)

SPK025AD-M63-12W M63 cable gland + adapter and 12-way grommet for SPK 25 pin (Ø hole 11.5 mm)

SPK025AD-M63-12W2 M63 cable gland + adapter and 12-way grommet for SPK 25 pin (Ø hole 9.5 mm)

Strain Relief (other models available, see website) 7ZK20A096B127 M20 \times 1.5 Ø 9.53 to 12.70 mm (.375" to .500")

7ZK20A127B158 M20 x 1.5 Ø 12.70 to 15.88 mm (.500" to .625")

7ZK32A112B140 M32 x 1.5 Ø 11.2 to 14.0 mm (.44" to .56")

7ZK32A142B175 M32 x 1.5 Ø 14.2 to 17.5 mm (.56" to .69")

7ZK32A160B191 M32 x 1.5 Ø 16.0 to 19.1 mm (.63" to .75")

7ZK32A191B224 M32 x 1.5 Ø 19.1 to 22.4 mm (.75" to .88")

7ZK32A224B254 M32 x 1.5 Ø 22.4 to 25.4 mm (.88" to 1.00") 7ZK40A191B224 M40 x 1.5 Ø 19.1 to 22.4 mm (.75" to .88")

7ZK40A224B254 M40 x 1.5 Ø 22.4 to 25.4 mm (.88" to 1.00")

7ZK40A254B285 M40 x 1.5 Ø 25.4 to 28.58 mm (1.00" to 1.125")

7ZK40A286B317 M40 x 1.5 Ø 28.58 to 31.75 mm (1.125" to 1.250") **7ZK40A318B349** M40 x 1.5 Ø 31.75 to 34.92 mm (1.250" to 1.375")



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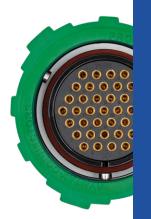
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