

Round connector 16BV Ø 16 mm

Energy supply | Single-pole industrial connectors

EN



STÄUBLI ELECTRICAL CONNECTORS

Connections for Life



Stäubli, as the international technology leader, offers innovative mechatronics solutions in its four divisions: Electrical Connectors, Fluid Connectors, Robotics, and Textile. At Stäubli Electrical Connectors, we develop advanced connection solutions based on the reliable MULTILAM contact technology.

Together for reliable and safe connections

We know that you entrust us with the functionality of your applications and we work hard to ensure this every single day. Thanks to our high level of expertise, our extensive experience and the multiple successful co-operation with our partners, numerous new developments have originated at Stäubli Electrical Connectors and subsequently have become worldwide standards. This includes our MC4 connector portfolio for which we are today the global market

We create connections for life – and our customers are at the center of these connections. We are convinced that solid and stable partnerships directly contribute to our mutual success.

We take on the needs of our partners and deal with the most extraordinary challenges. As a result, we always create, sell and

leader in photovoltaic. As the Stäubli original, the MC4 represents the result of our constant quest for innovation, quality and safety.

Further examples are the CombiTac modular connector system or the Quick Charging Connector (QCC) for automatic charging systems.

We ensure connections for life together with our long-standing customers in a wide range of industries from renewable energies, power transmission and distribution and E-mobility to industrial automation applica-

support reliable and long-lasting products for markets with the highest productivity and safety requirements in close cooperation with our customers.

tions, railway and welding automation, test and measurement and medical devices.

Thus, developing reliable, efficient and safe solutions based on our proven MULTILAM contact technology, which guarantees a high service lifetime in addition to highly efficient power transmission.

Applications and benefits



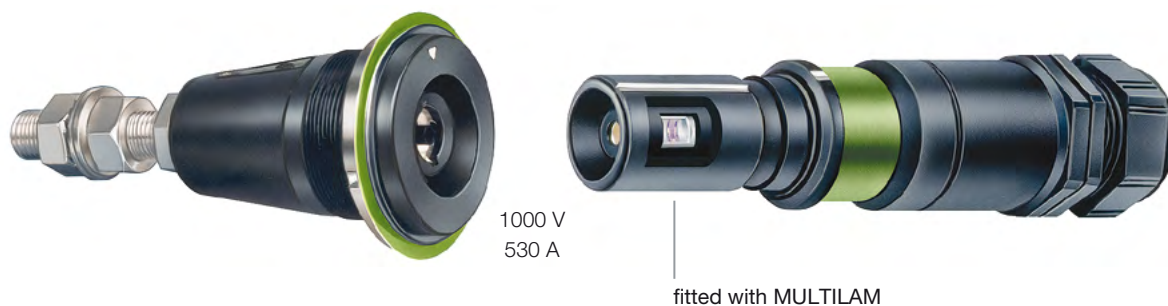
The round connectors from Stäubli Electrical Connectors are used in industrial equipment such as switchgears, test fields and emergency power supply systems in the low-voltage range. A bayonet lock prevents accidental disconnection.

- Proven MULTILAM technology for reliability and safety
- Highest current-carrying capacity
- Suitable for use to 1000 V, 530 A

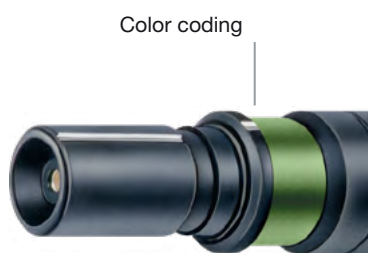
INTRODUCTION

Single-pole round connectors

Insulated, Ø 16 mm with bayonet locking



With bayonet locking. Function description, see page 4.



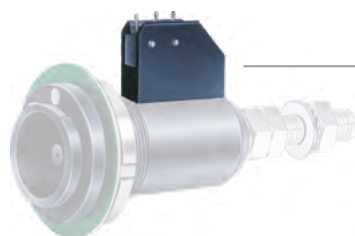
Good visible color coding.



Touch protection IP2X in unmated condition (figure left).
IP65: Socket KBT... and plug KST... in mated condition (figure right).



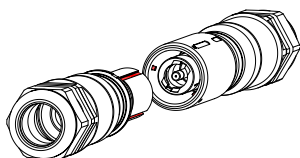
With interchangeable crimp connection (e.g. for defective lead).



Microswitch

Option for mounting a microswitch for locking status indication (in accordance with IEC 61984)

Plug coding possible upon request.



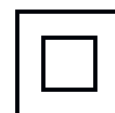
Developed in accordance to the standards

IEC EN
61984, 60512, 60664-1, 60529

The connectors may be used for "connectors for safety class II equipment."

They meet the requirement for double and/or reinforced insulation.

Safety class II



OVERVIEW 16BV

Stäubli connectors 16BV

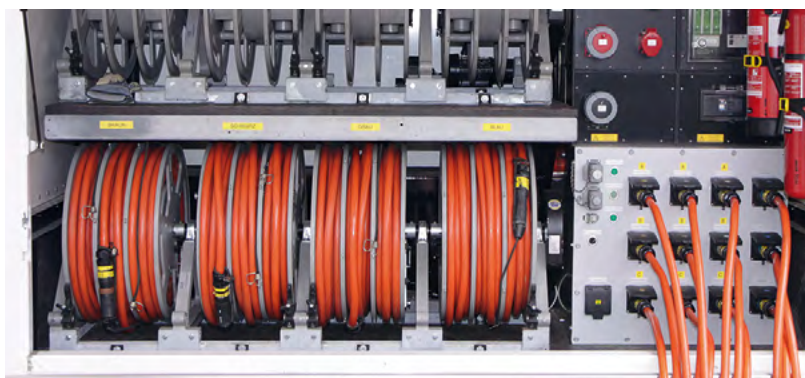
Technical data	
Rated voltage	AC 1000 V / DC 1500 V (IEC)
Rated current	to 530 A ¹⁾ (IEC)
Degree of protection, mated unmated	IP65 IP2X ²⁾
Metal part	CuZn (Ag)
Temperature range	-40 °C ... +90 °C
Salt spray test	–
Contact resistance (MULTILAM)	≤25 µΩ
Short-circuit current, 1 s/3 s	to 14 kA/to 10 kA
Peak withstand current	to 55 A
Test voltage (50 Hz/1 min.)	6.6 kV
Overvoltage category/pollution degree	CATIII/3
Conductor cross section, crimp connection	50 mm ² – 240 mm ² 1/0 AWG – 500 MCM
Conductor cross section, AxiClamp connection	50 mm ² – 240 mm ² 1/0 AWG – 500 MCM
Nominal-Ø pin/socket	16 mm
Withdrawal force/plugging force	114 N/270 N ³⁾
Max. tightening torque (when parts are new)	30 N m
Mating cycles	to 5000, depending on operating conditions
Mounting, ID/S..., ID/B IS..., IB....	Housing and panels direct on busbars
Connection type	Crimp or AxiClamp crimp or AxiClamp cable lug busbar/contact block
In compliance with	IEC 61984, IEC 60664-1, IEC 60529, IEC 60512-5-2, IEC 61238-1, IEC 60068-2-52
Color codes	10

¹⁾ Depending on cable cross section – see derating diagram page 32

²⁾ Without microswitch mounted. With protective cover also in unmated state.

³⁾ The values given relate to the first plugging cycle and decrease progressively with subsequent use.

Cable drums with mobile generator with Stäubli connectors



Connection in a power distribution cabinet with Stäubli flat bar clamp



Types and connection options



ID/B16BV-NS-A

Page 8



IB16BV-NS-A

Page 10



KBT16BV-...

Pages 12, 14



ID/S16BV-NS

Page 9



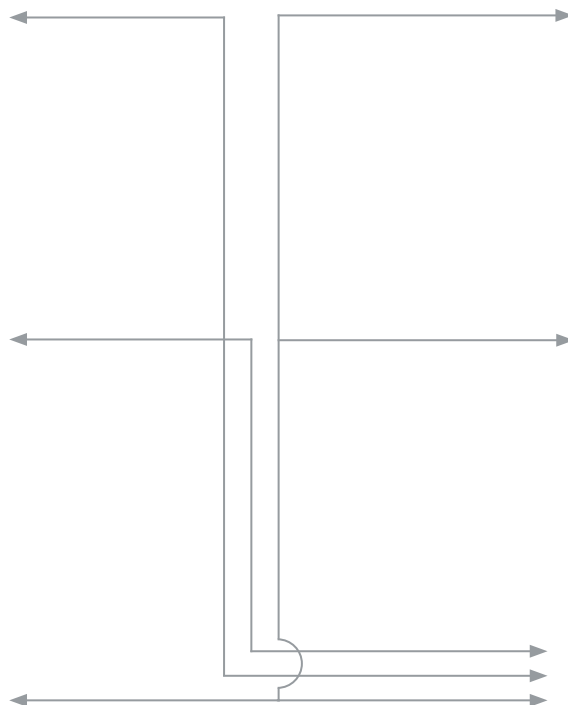
IS16BV-NS

Page 11



KST16BV-...

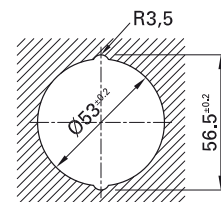
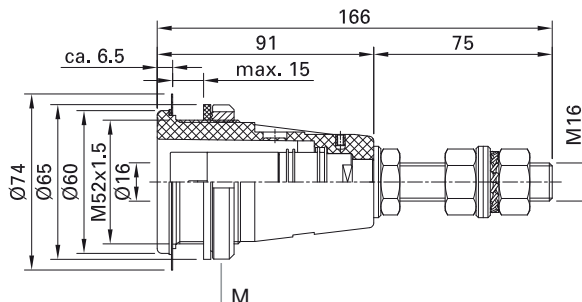
Pages 13, 16



PANEL RECEPTACLE SOCKETS 16BV

Socket ID/B16BV-NS-A

With bayonet locking and thread connection



Drilling plan

Order No.	Type	Description	*Colors
14.0047	ID/B16BV-NS-A	Socket	—

Accessories (please order separately)

14.5041-*	FR16	Color ring	20 21 22 23 24 25 26 27 28 29
14.5019	ID16BV-WZ	Socket wrench SW17, to tighten ring nut (M), see page 22	
14.5252-*	PL-PC-1021SET	Protective cover, see page 19	
14.0102	MS-B16BV-NS	Microswitch, see page 20	

Note:

If using a protective cover (PL-PC-1021SET), then a color ring may not be mounted



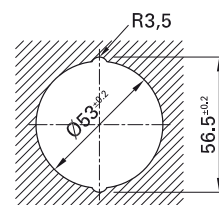
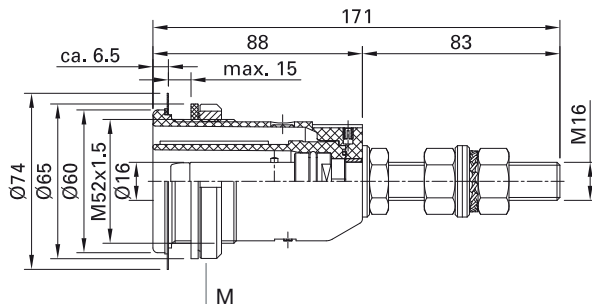
Assembly instructions MA023

www.staubli.com/electrical

* Please specify the color code

Plug ID/S16BV-NS

With bayonet locking and thread connection



Drilling plan

Order No.	Type	Description	*Colors
14.0040	ID/S16BV-NS	pin	–

Accessories (please order separately)

14.5041-*	FR16	Color ring	
14.5019	ID16BV-WZ	Socket wrench SW17, to tighten ring nut (M), see page 22	
14.5252-*	PL-PC-1021SET	Protective cover, see page 19	
14.0100	MS-ID/S16BV-NS	Microswitch, see page 20	

Note:

If using a protective cover (PL-PC-1021SET), then a color ring may not be mounted



Assembly instructions MA023

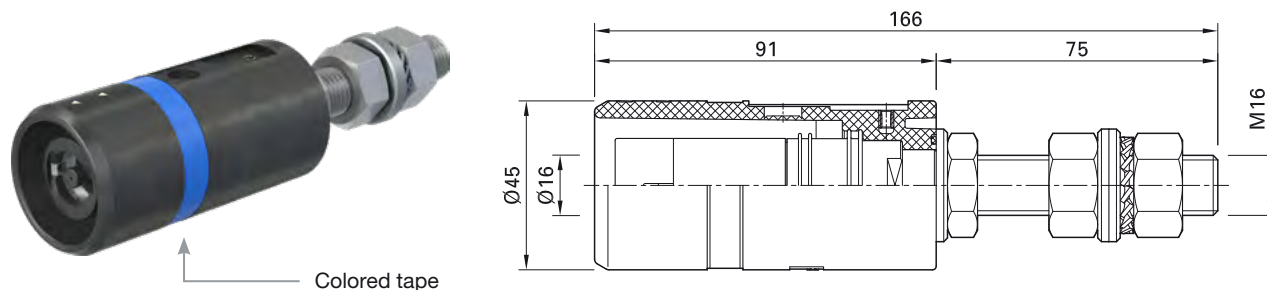
www.staubli.com/electrical

* Please specify the color code

SURFACE MOUNTING RECEPTACLE 16BV

Socket IB16BV-NS-A

With bayonet locking and thread connection



Order No.	Type	*Colored tape										
14.2037-*	IB16BV-NS-A	<table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table>	20	21	22	23	24	25	26	27	28	29
20	21	22	23	24	25	26	27	28	29			

Accessories (please order separately)

15.5270	DBT-IB16-NS	Protective cover, see page 18
14.0102	MS-B16BV-NS	Microswitch, see page 20

Note:

Conductor connection with cable lug or mounting on busbars, contact blocks or insulated front plates



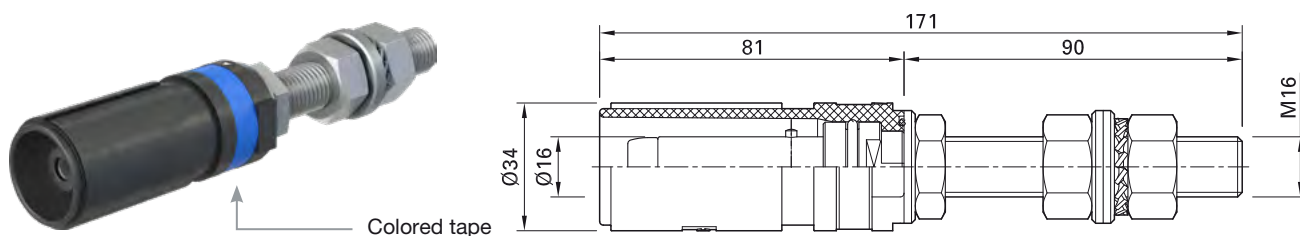
Assembly instructions MA025

www.staubli.com/electrical

* Please specify the color code

Plug IS16BV-NS

With bayonet locking and thread connection



Order No.	Type	*Colored tape										
14.2034-*	IS16BV-NS	<table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table>	20	21	22	23	24	25	26	27	28	29
20	21	22	23	24	25	26	27	28	29			

Accessories (please order separately)

15.5272	DST16-NS	Protective cover, see page 18
14.0101	MS-IS16BV-NS	Microswitch, see page 20

Note:

Conductor connection with cable lug or mounting on busbars, contact blocks or insulated front plates



Assembly instructions MA025

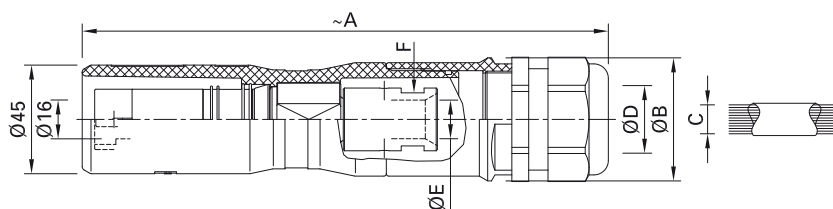
www.staubli.com/electrical

* Please specify the color code

COUPLING 16BV

Socket KBT16BV-AX/M...

With bayonet locking and AxiClamp connection for flexible cables class 5¹⁾ and class 6¹⁾



Order No.	Socket type	Dimensions		Conductor cross-section			For flexible leads H07RN-F	Ø-range of the cable gland	Max. Ø conductor	SW of the AxiClamp sleeve	*Colors
		~ A mm	Ø B mm	C mm ²	C AWG	C MCM	C mm ²	Ø D mm	Ø E mm	Ø F mm	
15.0652-*	KBT16BV-AX/M40/50-70	218	51.5	50 – 70	1/0-2/0	–	50 – 70	15 – 28	12.5	16	
15.0653-*	KBT16BV-AX/M40/95-120	218	51.5	95 – 120	4/0	–	95	15 – 28	16	22	20 21
15.0654-*	KBT16BV-AX/M40/150-185	218	51.5	150 – 185	–	300 – 350	–	15 – 28	20	27	22 23
15.0655-*	KBT16BV-AX/M50/95-120	230	61.6	95 – 120	4/0	–	120	22 – 35	16	22	24 25
15.0656-*	KBT16BV-AX/M50/150-185	230	61.6	150 – 185	–	300 – 350	150 – 185	22 – 35	20	27	26 27
15.0657-*	KBT16BV-AX/M50/240	230	61.6	240	–	500	–	22 – 35	23	28	28 29
15.0658-*	KBT16BV-AX/M50L/240	234	66	240	–	500	240	28 – 38	23	28	

Accessories (please order separately)

15.5268	DBT-KBT16-NS	Protective cover, see page 18
15.5832	FIXBAND B16BV	Fixing band, see page 18
15.0136	WKZ16BV-NS-A	Installation tool, see page 21
15.0134	GS36/46	Open-end spanner, for M40, see page 21
15.0135	GS55/60	Open-end spanner, for M50, see page 21



Assembly instructions MA063

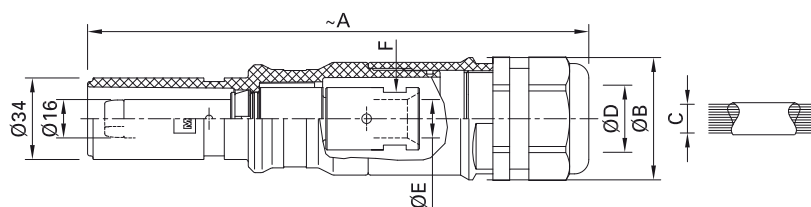
www.staubli.com/electrical

* Please specify the color code

¹⁾ Cable class in accordance with IEC 60228 (DIN VDE 0295), see page 24

Plug KST16BV-AX/M...

With bayonet locking and AxiClamp connection for flexible cables class 5¹⁾ and class 6¹⁾



Order No.	Plug type	Dimensions		Conductor cross-section			For flexible leads H07RN-F	Ø-range of the cable gland	Max. Ø conductor	SW of the AxiClamp sleeve	*Colors
		~ A mm	Ø B mm	C mm ²	C AWG	C MCM	C mm ²	Ø D mm	Ø E mm	Ø F mm	
15.0659-*	KST16BV-AX/M40/50-70	209	51.5	50 – 70	1/0-2/0	–	50 – 70	15 – 28	12.5	16	
15.0660-*	KST16BV-AX/M40/95-120	209	51.5	95 – 120	4/0	–	95	15 – 28	16	22	20 21
15.0661-*	KST16BV-AX/M40/150-185	209	51.5	150 – 185	–	300 – 350	–	15 – 28	20	27	22 23
15.0662-*	KST16BV-AX/M50/95-120	221	61.6	95 – 120	4/0	–	120	22 – 35	16	22	24 25
15.0663-*	KST16BV-AX/M50/150-185	221	61.6	150 – 185	–	300 – 350	150 – 185	22 – 35	20	27	26 27
15.0664-*	KST16BV-AX/M50/240	221	61.6	240	–	500	–	22 – 35	23	28	28 29
15.0665-*	KST16BV-AX/M50L/240	225	66	240	–	500	240	28 – 38	23	28	

Accessories (please order separately)

15.5272	DST16-NS	Protective cover, see page 18
15.5834	FIXBAND S16BV	Fixing band, see page 18
15.0136	WKZ16BV-NS-A	Installation tool, see page 21
15.0134	GS36/46	Open-end spanner, for M40, see page 21
15.0135	GS55/60	Open-end spanner, for M50, see page 21



Assembly instructions MA063

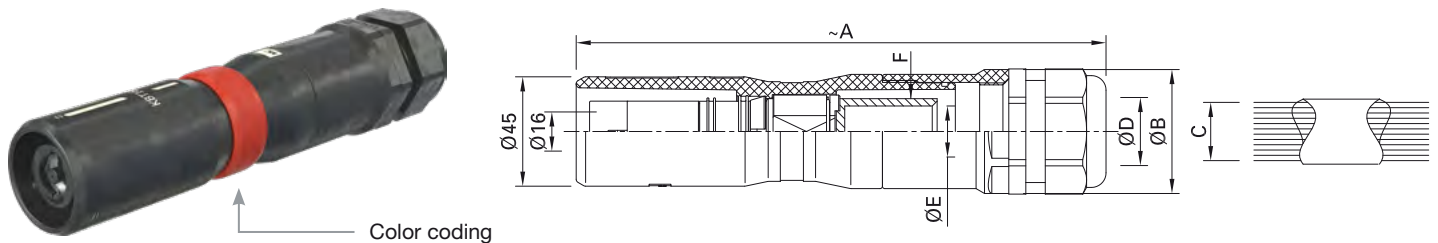
www.staubli.com/electrical

* Please specify the color code

¹⁾ Cable class in accordance with IEC 60228 (DIN VDE 0295), see page 24

Socket KBT16BV-NS/M...

With bayonet locking and crimp connection for flexible cables class 5¹⁾ and class 6¹⁾



Order No.	Socket type	Dimensions		Conductor cross-section			For flexible leads H07RN-F	Ø-range of the cable gland	Max. Conductor Ø	Crimping sleeve- outside-Ø	*Colors
		~ A mm	Ø B mm	C mm ²	C AWG	C MCM	C mm ²				

For flexible cables class 5 (e.g. H07RN-F)

15.0600-*	KBT16BV-NS/M40-50H	218	51.5	50	1/0	–	50	15 – 28	10	14	
15.0601-*	KBT16BV-NS/M40-70H	218	51.5	70	2/0	–	70	15 – 28	12	16	
15.0602-*	KBT16BV-NS/M40-95H	218	51.5	95	4/0	–	95	15 – 28	13.5	18	
15.0603-*	KBT16BV-NS/M40-120H	218	51.5	120	–	250	–	15 – 28	15	19	20 21
15.0604-*	KBT16BV-NS/M40-150H	218	51.5	150	–	300	–	15 – 28	17	22	22 23
15.0605-*	KBT16BV-NS/M50-95H	230	61.6	95	4/0	–	–	22 – 35	13.5	18	24 25
15.0606-*	KBT16BV-NS/M50-120H	230	61.6	120	–	250	120	22 – 35	15	19	26 27
15.0607-*	KBT16BV-NS/M50-150H	230	61.6	150	–	300	150	22 – 35	17	22	28 29
15.0608-*	KBT16BV-NS/M50-185H	230	61.6	185	–	350	185	22 – 35	19	24	
15.0609-*	KBT16BV-NS/M50-240H	230	61.6	240	–	500	–	22 – 35	21	26	
15.0610-*	KBT16BV-NS/M50L-240H	234	66	240	–	500	240	28 – 38	21	26	

Order No.	Socket type	Dimensions		Conductor cross-section			For flexible leads H07RN-F	Ø-range of the cable gland	Max. Conductor Ø	Crimping sleeve-outside-Ø	*Colors
		~ A mm	Ø B mm	C mm ²	C AWG	C MCM	C mm ²				

For flexible cables class 6 (e.g. Purwil)

15.0622-*	KBT16BV-NS/M40-50	218	51.5	50	1/0	–		15 – 28	11	14.5	
15.0623-*	KBT16BV-NS/M40-70	218	51.5	70	2/0	–		15 – 28	13	17	
15.0624-*	KBT16BV-NS/M40-95	218	51.5	95	4/0	–		15 – 28	15	20	
15.0625-*	KBT16BV-NS/M40-120	218	51.5	120	–	250		15 – 28	17	22	20 21
15.0626-*	KBT16BV-NS/M40-150	218	51.5	150	–	300		15 – 28	19	25	22 23
15.0627-*	KBT16BV-NS/M50-95	230	61.6	95	4/0	–		22 – 35	15	20	24 25
15.0628-*	KBT16BV-NS/M50-120	230	61.6	120	–	250		22 – 35	17	22	26 27
15.0629-*	KBT16BV-NS/M50-150	230	61.6	150	–	300		22 – 35	19	25	28 29
15.0630-*	KBT16BV-NS/M50-185	230	61.6	185	–	350		22 – 35	21	27	
15.0631-*	KBT16BV-NS/M50-240	230	61.6	240	–	500		22 – 35	24	30	
15.0632-*	KBT16BV-NS/M50L-240	234	66	240	–	500		28 – 38	24	30	

Accessories for all variants (please order separately)

15.5268	DBT-KBT16-NS	Protective cover, see page 18
15.5832	FIXBAND B16BV	Fixing band, see page 18
15.0136	WKZ16BV-NS-A	Installation tool, see page 21
15.0134	GS36/46	Open-end spanner, for M40, see page 21
15.0135	GS55/60	Open-end spanner, for M50, see page 21



Assembly instructions MA042

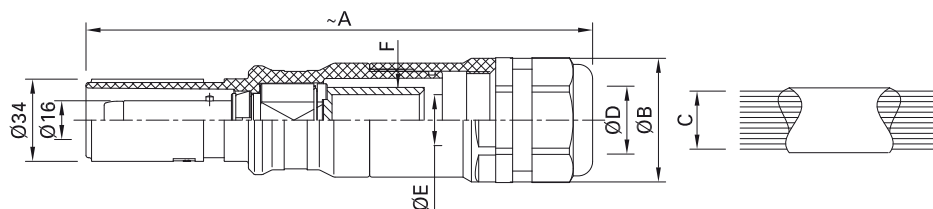
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* Please specify the color code

¹⁾ Cable class in accordance with IEC 60228 (DIN VDE 0295), see page 24

Plug KST16BV-NS/M...

With bayonet locking and crimp connection for flexible cables class 5¹⁾ and class 6¹⁾



Order No.	Plug type	Dimensions		Conductor cross-section			Ø-range of the cable gland	Max. Conductor Ø	Crimping sleeve- outside-Ø	*Colors
		~ A mm	Ø B mm	C mm ²	C AWG	C MCM				

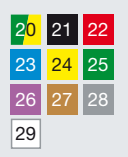
For flexible cables class 5 (e.g. H07RN-F)

15.0611-*	KST16BV-NS/M40-50H	209	51.5	50	1/0	–	15 – 28	10	14	
15.0612-*	KST16BV-NS/M40-70H	209	51.5	70	2/0	–	15 – 28	12	16	
15.0613-*	KST16BV-NS/M40-95H	209	51.5	95	4/0	–	15 – 28	13.5	18	
15.0614-*	KST16BV-NS/M40-120H	209	51.5	120	–	250	15 – 28	15	19	
15.0615-*	KST16BV-NS/M40-150H	209	51.5	150	–	300	15 – 28	17	22	
15.0616-*	KST16BV-NS/M50-95H	221	61.6	95	4/0	–	22 – 35	13.5	18	
15.0617-*	KST16BV-NS/M50-120H	221	61.6	120	–	250	22 – 35	15	19	
15.0618-*	KST16BV-NS/M50-150H	221	61.6	150	–	300	22 – 35	17	22	
15.0619-*	KST16BV-NS/M50-185H	221	61.6	185	–	350	22 – 35	19	24	
15.0620-*	KST16BV-NS/M50-240H	221	61.6	240	–	500	22 – 35	21	26	
15.0621-*	KST16BV-NS/M50L-240H	225	66	240	–	500	28 – 38	21	26	

Foot notes see page 16

Order No.	Plug type	Dimensions		Conductor cross-section			Ø-range of the cable gland	Max. Conductor Ø	Crimping sleeve-outside-Ø	*Colors
		~ A mm	Ø B mm	C mm ²	C AWG	C MCM				

For flexible cables class 6 (e.g. Purwil)

15.0633-*	KST16BV-NS/M40-50	209		50	1/0	–	15 – 28	11	14.5	
15.0634-*	KST16BV-NS/M40-70	209		70	2/0	–	15 – 28	13	17	
15.0635-*	KST16BV-NS/M40-95	209		95	4/0	–	15 – 28	15	20	
15.0636-*	KST16BV-NS/M40-120	209		120	–	250	15 – 28	17	22	
15.0637-*	KST16BV-NS/M40-150	209		150	–	300	15 – 28	19	25	
15.0638-*	KST16BV-NS/M50-95	221		95	4/0	–	22 – 35	15	20	
15.0639-*	KST16BV-NS/M50-120	221		120	–	250	22 – 35	17	22	
15.0640-*	KST16BV-NS/M50-150	221		150	–	300	22 – 35	19	25	
15.0641-*	KST16BV-NS/M50-185	221		185	–	350	22 – 35	21	27	
15.0642-*	KST16BV-NS/M50-240	221		240	–	500	22 – 35	24	30	
15.0643-*	KST16BV-NS/M50L-240	225		240	–	500	28 – 38	24	30	

Accessories (please order separately)

15.5272	DST16-NS	Protective cover, see page 18
15.5834	FIXBAND S16BV	Fixing band, see page 18
15.0136	WKZ16BV-NS-A	Installation tool, see page 21
15.0134	GS36/46	Open-end spanner, for M40, see page 21
15.0135	GS55/60	Open-end spanner, for M50, see page 21



Assembly instructions MA042

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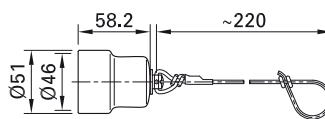
* Please specify the color code

¹⁾ Cable class in accordance with IEC 60228 (DIN VDE 0295), see page 24

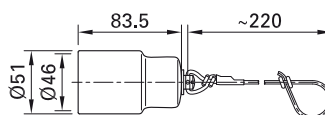
ACCESSORIES

Protective cover

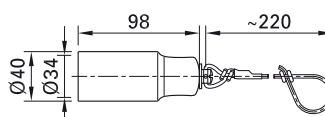
DBT-IB16-NS



DBT-KBT16-NS



DST16-NS

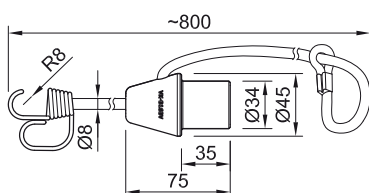


Order No.	Type	Suitable for	Degree of protection	Page	MA	Assembly instructions
15.5270	DBT-IB16-NS	IB16BV-NS-A	IP65, IP67	10	MA025	
15.5268	DBT-KBT16-NS	KBT16BV-AX/... KBT16BV-NS/...	IP65, IP67	12	MA063	
				14	MA042	
15.5272	DST16-NS	IS16BV-NS KST16BV-AX/... KST16BV-NS/...	IP65, IP67	11	MA063	
				13	MA042	
				16	MA025	

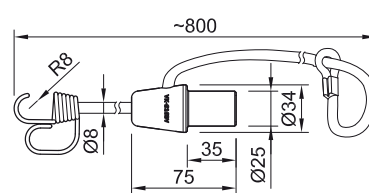
Fixing band

To fix on 16BV connectors KBT... and KST...
on the cable drum or other attachment
points

FIXBAND B16BV



FIXBAND S16BV



Order No.	Type	Suitable for	Page	MA	Assembly instructions
15.5832	FIXBAND B16BV	KBT16BV-AX/M... KBT16BV-NS/M...	12	MA063	
			14	MA042	
15.5834	FIXBAND S16BV	KST16BV-AX/M... KST16BV-NS/M...	13	MA063	
			16	MA042	

Protective cover

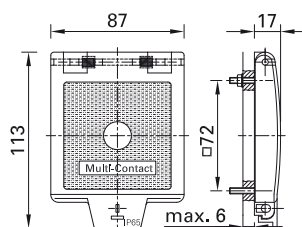
For panel receptacle sockets. The protective covers and DE16N are spring-loaded hinged covers for covering unmated junction boxes and protect against mechanical impact, dirt



and water spray. Degree of protection IP65
The protective cover can be locked with a padlock (not supplied by Stäubli). The color coding is done with color coding disks.

DE16N




Color coding disks



Order No.	Type	Suitable for	Page	 Assembly instructions	*Colors
14.5252-*	PL-PC-1021SET	ID/B16BV-NS-A ID/S16BV-NS	8 9	MA023 MA023	

Single parts

14.5137-*	FS-DE10-16	Replacement color coding disks			
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* Please specify the color code

Microswitch

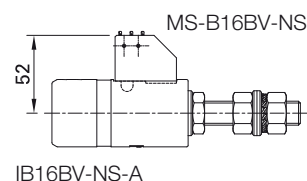
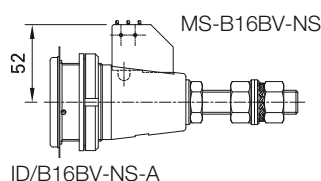
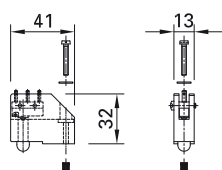
For standard conformity and increased safety

Panel receptacle sockets and surface mounting receptacles can be additionally equipped with a microswitch for connection status indication. The microswitch contact is a change-

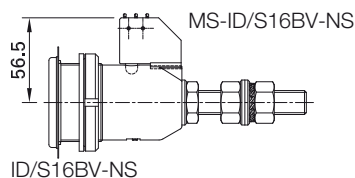
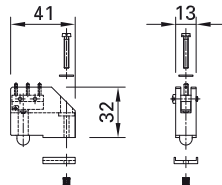
over contact with 3 flat terminals 2.8 mm x 0.5 mm and a switching capacity of 6 A, 250 V AC.

The microswitch switches immediately before the lock snaps into place, indicating that the plug connection has been made.

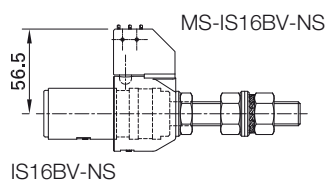
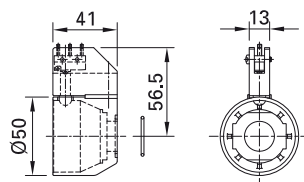
MS-B16BV-NS



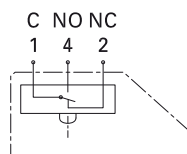
MS-ID/S16BV-NS




MS-IS16BV-NS



Microswitch circuit diagram



Order No.	Type	Suitable for	Page	 Assembly instructions
14.0102	MS-B16BV-NS	ID/B16BV-NS-A	8	MA023
		IB16BV-NS-A	10	MA025
14.0100	MS-ID/S16BV-NS	ID/S16BV-NS	9	MA023
14.0101	MS-IS16BV-NS	IS16BV-NS	11	MA025

TOOLS

Installation and extraction tools

The crimping sleeves of the coupling parts KBT16BV... and KST16BV... are locked in the metal parts during mounting. To replace the crimping sleeves, the metal parts must

be pressed out of the insulations. The WKZ-16BV-NS-A tool is required for both dismantling and installation of the metal parts. It is suitable for all insulation sizes and for sock-

ets KBT16BV... and plugs KST16BV...

WKZ16BV-NS-A



Order No.	Type	Suitable for	Page	MA	Assembly instructions
15.0136	WKZ16BV-NS-A	KBT16BV-AX/...	12	MA064	
		KST16BV-AX/...	13	MA064	
		KBT16BV-NS/...	14	MA043	
		KST16BV-NS/...	16	MA043	

Open-end spanner

For tightening the cable gland of the couplings K...T16BV... Stäubli recommends this tool to prevent overtightening of the threads

when used with conventional tools. This requires two tools each.

GS36/46



GS55/60



Order No.	Type	Suitable for	Page	MA	Assembly instructions
15.0134	GS36/46	KBT16BV-AX/M...	12	MA063	
		KST16BV-AX/M...	13	MA063	
		KBT16BV-NS/M40...	14	MA042	
		KST16BV-NS/M40	16	MA042	
15.0135	GS55/60	KBT16BV-AX/M50...	12	MA063	
		KST16BV-AX/M50...	13	MA063	
		KBT16BV-.../M50...	14	MA042	
		KST16BV-.../M50...	16	MA042	


Socket wrench

For tightening the 16BV ring nut, Stäubli recommends a torque. For

standard torque wrenches, Stäubli supplies this socket wrench (SW17).

ID16BV-WZ



Order No.	Type	Torque	Suitable for	Page	 Assembly instructions
14.5019	ID16BV-WZ	15 N m	ID/B16BV-NS-A ID/S16BV-NS	8 9	MA023

Notes for crimping with crimping sleeves

Stäubli recommends ELPRESS hexagonal crimping. The dimensions of the crimping sleeves, and the crimping inserts supplied by ELPRESS, are designed for crimping class 6¹⁾ flexible conductors (Purwil).

In response to the increased use of class 5¹⁾ leads with reduced flexibility and therefore a smaller conductor diameter (e.g. H07RN-F), a new range of connectors with a crimping sleeve designed for use with these leads has

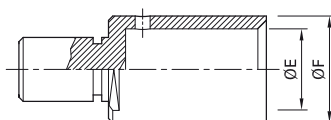
been added to our product range. The new crimping sleeves guarantee a perfect connection in terms of both contact resistance and pull-out strength.

Crimping sleeves for sockets and plugs with bayonet locking KBT16BV-NS... und KST16BV-NS... for flexible cables class 5¹⁾ and 6¹⁾

Crimping sleeve



Material: CU-ETP, Ag



Elpress V1311C2-A



Order No.	Plug type	Conductor cross-section	Inside Ø E	Outside Ø F	Crimping pliers	Order No. Crimping pliers	Crimp die	Order No. Crimp die	MA Assembly instructions
		mm ²	mm	mm					

For flexible cables class 6¹⁾

07.0043	H50/16BV-NS	50	11	14.5	M-PZ-T2600	18.3710	TB11-14.5	18.3713	MA226
07.0044	H70/16BV-NS	70	13	17	M-PZ-T2600	18.3710	TB8-17	18.3711	
07.0045	H95/16BV-NS	95	15	20	M-PZ-T2600	18.3710	TB7-20	18.3714	
07.0040	H120/16BV-NS	120	17	22	V1311C2-A ²⁾		B22 (V1330) ²⁾	-	MA069
07.0041	H150/16BV-NS	150	19	25	V1311C2-A ²⁾		B25 (V1330) ²⁾	-	
07.0042	H185/16BV-NS	185	21	27	V1311C2-A ²⁾		13CB27 ³⁾	-	
07.0046	H240/16BV-NS	240	24	30	V1311C2-A ²⁾		13CB30 ³⁾	-	

For flexible cables class 5¹⁾

12.5003	H50-H07RN-F/16BV-NS	50	10	14	M-PZ-T2600	18.3710	TB12-14 ²⁾	-	MA226
12.5004	H70-H07RN-F/16BV-NS	70	12	16	M-PZ-T2600	18.3710	TB10-16	²⁾	
12.5005	H95-H07RN-F/16BV-NS	95	13.5	18	M-PZ-T2600	18.3710	TB8-18	²⁾	
12.5006	H120-H07RN-F/16BV-NS	120	15	19	M-PZ-T2600	18.3710	TB7-19 ²⁾	-	MA069
12.5007	H150-H07RN-F/16BV-NS26	150	17	22	V1311C2-A ²⁾		B22 (V1330) ²⁾	-	
12.5008	H185-H07RN-F/16BV-NS	185	19	24	V1311C2-A ²⁾		13CB24 ³⁾	-	
12.5009	H240-H07RN-F/16BV-NS	240	21	26	V1311C2-A		13CB26 ³⁾	-	



Installation tool WKZ16BV-NS-A, page 21

¹⁾ Cable class in accordance with IEC 60228 (DIN VDE 0295), see page 24

²⁾ Not delivered by Stäubli. Notes under: www.staubli.com/electrical > Downloads > Technische Info > Industrie > Crimpzangen

³⁾ 2 crimpings required

Choice of connector based on the cable used

The cable must fit the connector during crimp connection, i.e. the Cu single conductors should hold securely in the matching crimp sleeve and the insulation should be permanently fixed in the cable gland. To deal with the different flexible Cu cable

types (class 5 and 6 according to IEC 60228, DIN VDE 0295) that are on the market, we have also developed 2 different connector types for the Ø 16BV series. The difference between class 5 and class 6 is flexibility. Class 6 cables have a higher

flexibility due to the smaller cross-section of the individual strands.

	Flexible conductor, class 5 in accordance with IEC 60228, DIN VDE 0295, (e.g. H07RN-F)			Flexible conductor, class 6 in accordance with IEC 60228, DIN VDE 0295		
	largest Ø of the single strands	outside-Ø of the crimping sleeve	inside-Ø of the crimping sleeve	largest Ø of the single strands	outside-Ø of the crimping sleeve	inside-Ø of the crimping sleeve
Conductor cross-section	mm	mm	mm	mm	mm	mm
mm ²						
50	0.41	14	10	0.31	14.5	11
70	0.51	16	12	0.31	17	13
95	0.51	18	13.5	0.31	20	15
120	0.51	19	15	0.31	22	17
150	0.51	22	17	0.31	25	19
185	0.51	24	19	0.41	27	21
240	0.51	26	21	0.41	30	24

If the cable type cannot be assigned to classes 5 or 6, the dimensions of the crimp sleeves and cable glands, which are specified for all connector types, must be

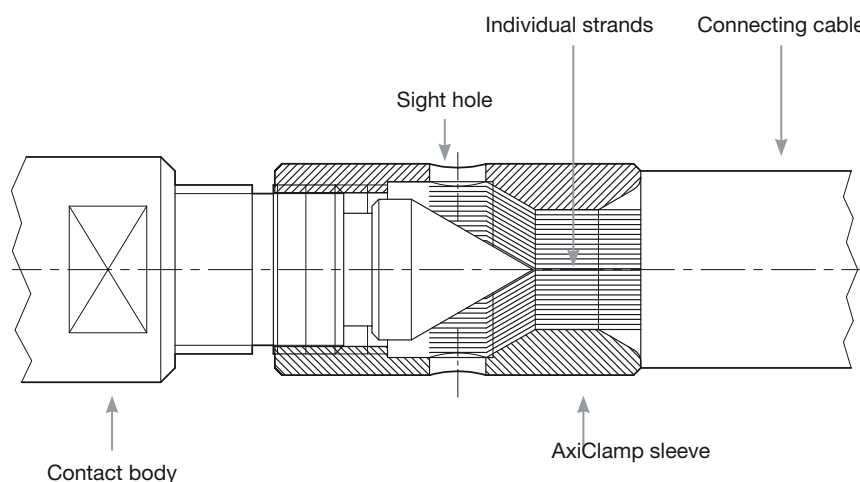
matched to the cable data.
Notes to crimping, see page 24.

What is AxiClamp?

The patented cable connection system for electrical and mechanical connection of Cu conductors 6 mm²-300 mm² class 5 and class 6 according to DIN VDE 0295, IEC 60228.

The individual strands of the connecting cable are screwed against a metal cone by means of a conical screw sleeve and clamped tight. The metal cone is part of the contact body. This results in a solid clamp

connection that offers equivalent contact resistances as the crimp connection and has additional advantages.



Electrical and thermal tests:

DIN EN 61238-1 (VDE 0220 part 100), compression and screw connectors for power cables for rated voltages up to and including 30 kV (U_m = 36 kV)

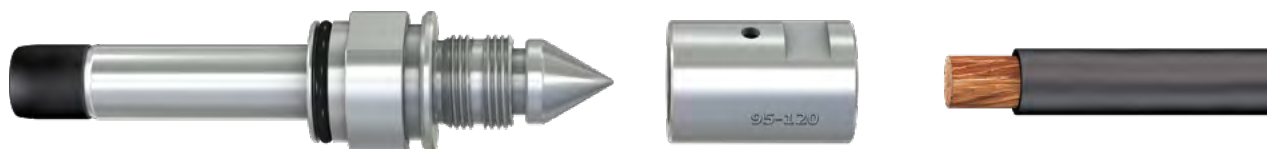
Mechanical tests:

DIN EN 60068-2-6, environmental tests, Fc tests: Oscillating, sinusoidal.

Test parameter:

- g-strain 10 g
- Amplitude: 0.75 mm
- Frequency: 10 to 500 Hz
- Time: 3 x 112 min.

Benefits of the AxiClamp system



- Possible to mounting with standard tools
- Reusable many times
- Compatible with various cable cross sections
- Time and cost savings



Assembly instructions MA408

www.staubli.com

Technical data 16BV connector

Page	Order No.	Type	General information			Mechanical data				
			Connection	Conductor cross-section Cu	Weight	Nominal-Ø pin/socket	Withdrawal force	Plugging force	Max. Tightening torque	MULTILAM
				mm ²	g	mm	N	N	Nm	
8	14.0047	ID/B16BV-NS-A	Screw (M16)	240	792	16	110	270	30	LAIA
9	14.0040	ID/S16BV-NS	Screw (M16)	240	673	16	110	270	30	-
10	14.2037-*	IB16BV-NS-A	Screw (M16)	240	608	16	110	270	30	LAIA
11	14.2034-*	IS16BV-NS	Screw (M16)	240	492	16	110	270	30	-
12	15.0652-*	KBT16BV-AX/M40/50-70	AxiClamp	50 70	639	16	110	270		LAIA
12	15.0653-*	KBT16BV-AX/M40/95-120	AxiClamp	95 120	711	16	110	270		LAIA
12	15.0654-*	KBT16BV-AX/M40/150-185	AxiClamp	150 185	812	16	110	270		LAIA
12	15.0655-*	KBT16BV-AX/M50/95-120	AxiClamp	95 120	640	16	110	270		LAIA
12	15.0656-*	KBT16BV-AX/M50/150-185	AxiClamp	150 185	741	16	110	270		LAIA
12	15.0657-*	KBT16BV-AX/M50/240	AxiClamp	240	780	16	110	270		LAIA
12	15.0658-*	KBT16BV-AX/M50L/240	AxiClamp	240	789	16	110	270		LAIA
13	15.0659-*	KST16BV-AX/M40/50-70	AxiClamp	50 70	484	16	110	270		-
13	15.0660-*	KST16BV-AX/M40/95-120	AxiClamp	95 120	563	16	110	270		-
13	15.0661-*	KST16BV-AX/M40/150-185	AxiClamp	150 185	658	16	110	270		-
13	15.0662-*	KST16BV-AX/M50/95-120	AxiClamp	95 120	604	16	110	270		-
13	15.0663-*	KST16BV-AX/M50/150-185	AxiClamp	150 185	699	16	110	270		-
13	15.0664-*	KST16BV-AX/M50/240	AxiClamp	240	745	16	110	270		-
13	15.0665-*	KST16BV-AX/M50L/240	AxiClamp	240	754	16	110	270		-
14	15.0600-*	KBT16BV-NS/M40-50H	Crimp	50	586	16	110	270		LAIA
14	15.0601-*	KBT16BV-NS/M40-70H	Crimp	70	591	16	110	270		LAIA
14	15.0602-*	KBT16BV-NS/M40-95H	Crimp	95	600	16	110	270		LAIA
14	15.0603-*	KBT16BV-NS/M40-120H	Crimp	120	600	16	110	270		LAIA
14	15.0604-*	KBT16BV-NS/M40-150H	Crimp	150	605	16	110	270		LAIA
14	15.0605-*	KBT16BV-NS/M50-95H	Crimp	95	643	16	110	270		LAIA

* Please specify the color code

¹⁾ The value specified applies only to the connector. The max. rated current must be determined while considering the

connected cable. To do this please compare the derating diagram on page 32

²⁾ Safety instructions, see page 31

Electrical characteristics ¹									
	Rated current	Rated voltage ¹⁾		Contact resistance	Short circuit current		Peak withstand current	Test voltage 50 Hz 1 min. ²⁾	Insulation coordination
		IEC	IEC (AC)		IEC (DC)	<30 μΩ			
					1s	3s	kA	kV	kV/n
	530	1000	1500	25	14	10	55	6.6	8/3
	530	1000	1500	25	14	10	55	6.6	8/3
	530	1000	1500	25	14	10	55	6.6	8/3
	530	1000	1500	25	14	10	55	6.6	8/3
	200	1000	1500	25	5.8	3.3	55	6.6	8/3
	250	1000	1500	25	8.1	4.6	55	6.6	8/3
	300	1000	1500	25	11	6.3	55	6.6	8/3
	340	1000	1500	25	14	8	55	6.6	8/3
	400	1000	1500	25	14	10	55	6.6	8/3
	450	1000	1500	25	14	10	55	6.6	8/3
	300	1000	1500	25	11	6.3	55	6.6	8/3
	340	1000	1500	25	14	8	55	6.6	8/3
	400	1000	1500	25	14	10	55	6.6	8/3
	450	1000	1500	25	14	10	55	6.6	8/3
	530	1000	1500	25	14	10	55	6.6	8/3
	530	1000	1500	25	14	10	55	6.6	8/3
	200	1000	1500	25	5.8	3.3	55	6.6	8/3
	250	1000	1500	25	8.1	4.6	55	6.6	8/3
	300	1000	1500	25	11	6.3	55	6.6	8/3
	340	1000	1500	25	14	8	55	6.6	8/3
	300	1000	1500	25	14	10	55	6.6	8/3
	340	1000	1500	25	14	10	55	6.6	8/3
	300	1000	1500	25	11	6.3	55	6.6	8/3
	340	1000	1500	25	14	8	55	6.6	8/3
	400	1000	1500	25	14	10	55	6.6	8/3
	450	1000	1500	25	14	10	55	6.6	8/3
	530	1000	1500	25	14	10	55	6.6	8/3
	530	1000	1500	25	14	10	55	6.6	8/3
	200	1000	1500	25	5.8	3.3	55	6.6	8/3
	250	1000	1500	25	8.1	4.6	55	6.6	8/3
	300	1000	1500	25	11	6.3	55	6.6	8/3
	340	1000	1500	25	14	8	55	6.6	8/3
	400	1000	1500	25	14	10	55	6.6	8/3
	300	1000	1500	25	11	6.3	55	6.6	8/3

Page	Order No.	Type	General information			Mechanical data				
			Connection	Conductor cross-section Cu	Weight	Nominal-Ø pin/socket	Withdrawal force	Plugging force	Max. Tightening torque	MULTILAM
				mm ²	g	mm	N	N	Nm	
14	15.0606-*	KBT16BV-NS/M50-120H	Crimp	120	643	16	110	270		LAIA
14	15.0607-*	KBT16BV-NS/M50-150H	Crimp	150	648	16	110	270		LAIA
14	15.0608-*	KBT16BV-NS/M50-185H	Crimp	185	666	16	110	270		LAIA
14	15.0609-*	KBT16BV-NS/M50-240H	Crimp	240	682	16	110	270		LAIA
14	15.0610-*	KBT16BV-NS/M50L-240H	Crimp	240	691	16	110	270		LAIA
14	15.0622-*	KBT16BV-NS/M40-50	Crimp	50	586	16	110	270		LAIA
14	15.0623-*	KBT16BV-NS/M40-70	Crimp	70	604	16	110	270		LAIA
14	15.0624-*	KBT16BV-NS/M40-95	Crimp	95	608	16	110	270		LAIA
14	15.0625-*	KBT16BV-NS/M40-120	Crimp	120	605	16	110	270		LAIA
14	15.0626-*	KBT16BV-NS/M40-150	Crimp	150	628	16	110	270		LAIA
14	15.0627-*	KBT16BV-NS/M50-95	Crimp	95	651	16	110	270		LAIA
14	15.0628-*	KBT16BV-NS/M50-120	Crimp	120	648	16	110	270		LAIA
14	15.0629-*	KBT16BV-NS/M50-150	Crimp	150	671	16	110	270		LAIA
14	15.0630-*	KBT16BV-NS/M50-185	Crimp	185	688	16	110	270		LAIA
14	15.0631-*	KBT16BV-NS/M50-240	Crimp	240	714	16	110	270		LAIA
14	15.0632-*	KBT16BV-NS/M50L-240	Crimp	240	723	16	110	270		LAIA
16	15.0611-*	KST16BV-NS/M40-50H	Crimp	50	450	16	110	270		-
16	15.0612-*	KST16BV-NS/M40-70H	Crimp	70	454	16	110	270		-
16	15.0613-*	KST16BV-NS/M40-95H	Crimp	95	464	16	110	270		-
16	15.0614-*	KST16BV-NS/M40-120H	Crimp	120	463	16	110	270		-
16	15.0615-*	KST16BV-NS/M40-150H	Crimp	150	469	16	110	270		-
16	15.0616-*	KST16BV-NS/M50-95H	Crimp	95	507	16	110	270		-
16	15.0617-*	KST16BV-NS/M50-120H	Crimp	120	507	16	110	270		-
16	15.0618-*	KST16BV-NS/M50-150H	Crimp	150	512	16	110	270		-
16	15.0619-*	KST16BV-NS/M50-185H	Crimp	185	530	16	110	270		-
16	15.0620-*	KST16BV-NS/M50-240H	Crimp	240	546	16	110	270		-
16	15.0621-*	KST16BV-NS/M50L-240H	Crimp	240	554	16	110	270		-
16	15.0633-*	KST16BV-NS/M40-50	Crimp	50	449	16	110	270		-
16	15.0634-*	KST16BV-NS/M40-70	Crimp	70	467	16	110	270		-
16	15.0635-*	KST16BV-NS/M40-95	Crimp	95	471	16	110	270		-
16	15.0636-*	KST16BV-NS/M40-120	Crimp	120	469	16	110	270		-
16	15.0637-*	KST16BV-NS/M40-150	Crimp	150	491	16	110	270		-
16	15.0638-*	KST16BV-NS/M50-95	Crimp	95	514	16	110	270		-
16	15.0639-*	KST16BV-NS/M50-120	Crimp	120	512	16	110	270		-
16	15.0640-*	KST16BV-NS/M50-150	Crimp	150	535	16	110	270		-
16	15.0641-*	KST16BV-NS/M50-185	Crimp	185	551	16	110	270		-
16	15.0642-*	KST16BV-NS/M50-240	Crimp	240	578	16	110	270		-
16	15.0643-*	KST16BV-NS/M50L-240	Crimp	240	587	16	110	270		-

* Please specify the color code

¹⁾ The value specified applies only to the connector. The max. rated current must be determined while considering the

connected cable. To do this please compare the derating diagram on page 32.

²⁾ Safety instructions, see page 31

Electrical characteristics ¹									
Rated current	Rated voltage ¹⁾		Contact resistance	Short circuit current		Peak withstand current	Test voltage 50 Hz 1 min. ²⁾	Insulation coordination	
	A	V		<30 μΩ	kA				kV
IEC	IEC (AC)	IEC (DC)		1s	3s	kA	kV	kV/n	
340	1000	1500	25	14	8	55	6.6	8/3	
400	1000	1500	25	14	10	55	6.6	8/3	
450	1000	1500	25	14	10	55	6.6	8/3	
530	1000	1500	25	14	10	55	6.6	8/3	
530	1000	1500	25	14	10	55	6.6	8/3	
200	1000	1500	25	5.8	3.3	55	6.6	8/3	
250	1000	1500	25	8.1	4.6	55	6.6	8/3	
300	1000	1500	25	11	6.3	55	6.6	8/3	
340	1000	1500	25	14	8	55	6.6	8/3	
400	1000	1500	25	14	10	55	6.6	8/3	
300	1000	1500	25	11	6.3	55	6.6	8/3	
340	1000	1500	25	14	8	55	6.6	8/3	
400	1000	1500	25	14	10	55	6.6	8/3	
450	1000	1500	25	14	10	55	6.6	8/3	
530	1000	1500	25	14	10	55	6.6	8/3	
530	1000	1500	25	14	10	55	6.6	8/3	
200	1000	1500	25	5.8	3.3	55	6.6	8/3	
250	1000	1500	25	8.1	4.6	55	6.6	8/3	
300	1000	1500	25	11	6.3	55	6.6	8/3	
340	1000	1500	25	14	8	55	6.6	8/3	
400	1000	1500	25	14	10	55	6.6	8/3	
300	1000	1500	25	11	6.3	55	6.6	8/3	
340	1000	1500	25	14	8	55	6.6	8/3	
400	1000	1500	25	14	10	55	6.6	8/3	
450	1000	1500	25	14	10	55	6.6	8/3	
530	1000	1500	25	14	10	55	6.6	8/3	
530	1000	1500	25	14	10	55	6.6	8/3	
200	1000	1500	25	5.8	3.3	55	6.6	8/3	
250	1000	1500	25	8.1	4.6	55	6.6	8/3	
300	1000	1500	25	11	6.3	55	6.6	8/3	
340	1000	1500	25	14	8	55	6.6	8/3	
400	1000	1500	25	14	10	55	6.6	8/3	
300	1000	1500	25	11	6.3	55	6.6	8/3	
340	1000	1500	25	14	8	55	6.6	8/3	
400	1000	1500	25	14	10	55	6.6	8/3	
450	1000	1500	25	14	10	55	6.6	8/3	
530	1000	1500	25	14	10	55	6.6	8/3	
530	1000	1500	25	14	10	55	6.6	8/3	

Technical data

Extraction and plugging force

Stated values are forces after 20 to 30 actuations and with thin lubricant film. The forces are higher when parts are new.

Tightening torques

The torques apply to clean, lightly greased bolts, nuts and washers.

Rated current (IEC 61984)

Current value determined by Stäubli that the connector can conduct continuously and simultaneously through all its contacts connected to the largest specified conductors (without interruption), at an ambient temperature of 20 °C, without exceeding the upper limiting temperature.

Rated voltage (IEC 61984)

For connectors, the voltage determined by Stäubli to which operating and performance characteristics refer.

Note: A connector may have more than one rated voltage value.

Contact resistance

Is the resistance occurring at the point where two contact areas touch. Its value is calculated using the measured voltage drop at the rated current.

Test voltage

Is the voltage that a connector can withstand under the determined conditions without breakdown or flashover.

Short-circuit current

As defined by IEC 60909-0:2016.

Insulation coordination

In accordance to IEC 60664-1:2007 The values in the tables indicate the rated impulse voltage in kV and the pollution degree.

Initials	Material designation	Temperature
PA	Polyamide	-40 °C...+80 °C
POM	Polyoxymethylene	-40 °C...+100 °C
PA66	Polyamide 66	-30 °C...+120 °C
PA6	Polyamide 6	-30 °C...+90 °C
TPE	Thermoplastic elastomer	-40 °C...+100 °C
PE	Polyethylene	-15 °C...+90 °C
PP	Polypropylene	-15 °C...+90 °C
PVC	Polyvinyl chloride	-15 °C...+80 °C
CR	Neoprene	-20 °C...+80 °C
PUR	Polyurethane	-40 °C...+80 °C

Lubricants

Stäubli recommends the following lubricants:

Grease (general elec. contacts):

- Klübertemp GR UT 18 – 100 g (73.1059)

Grease in SF6 gas:

- Barrierta I EL-102*

Assembly and sealing grease:

- Barrierta I S-402 or Barrierta I MI-202*

Mating cycles

The maximum mating frequency of the standard connectors is 5000 depending on the operating conditions and when using protective covers in unmated condition. This requires a thin lubricant film on the contacts before the first plugging procedure. Higher mating cycles put stress on the surface, the guide and the lubrication, and always necessitate special clarifications and special versions.

Crimp connection

For conductor connections, we recommend hexagonal crimping for our crimping sleeves. Notching is possible. Our crimping sleeves are designed for highly flexible Cu leads. For other types of leads, special crimping sleeves are required. Stäubli recommends ELPRESS for all highly-flexible Cu conductors.

Note: Stäubli also manufactures fully pre-assembled leads and cables!

Safety instructions

Basic protection against electric shock (IEC 61140:2016)

Hazardous-live-parts shall not be accessible and accessible-conductive-parts shall not be hazardous live either:

- under normal conditions (operation in intended use, and absence of a fault) or
- under single-fault conditions.

Extracts from IEC 61984: 2008 and remarks

1) Plug connectors

Contacts are not under voltage or under load/current when connecting or disconnecting. An electrical or mechanical lock can prevent contacts from becoming live before the connector is plugged in or pulled out. A lock can be obtained with a microswitch.

Protection against electric shock for unenclosed connectors

Protection is ensured by the customer in the final product in which the connectors are installed, or a safety extra-low voltage (SELV) shall be applied.

Protection against electric shock for enclosed connectors

Mated condition: Clearance and creepage distances are measured between live parts and the IEC test probe with a test force of 20 N.

Unmated condition, contact openings: Clearance and creepage distances are considered.

For a plug connector with breaking capacity, clearance and creepage distances are measured through the openings between the live parts and the plane of the mating face.

IEC 61984 “Connectors – Safety requirements and tests”

This international standard applies to connectors with rated voltages from 50 V to 1000 V and rated currents up to 125 A per contact and for which either no detailed specification (DS) exists or for which the DS refers to this standard for safety aspects.

2) Connector system

When connecting or disconnecting, contacts are live only; however, contacts are not under load, and carry no current. Plug devices must have the stated breaking capacity or must be so designed that they can only be connected and disconnected in the absence of load (without current). This can be achieved with a lock, e.g. a microswitch. A microswitch can be installed on the fixed part of the plug connector.

Mated condition: Clearance and creepage distances are measured between live parts and the IEC test probe

Unmated condition: Contact openings: clearance and creepage distances are measured between live parts and the plane of the mating face. Does not apply to the male part of the connector.

3) Connector system (CBC)

(CBC = connector with breaking capacity). Contacts are live and current (load) flows through the contacts when connecting or disconnecting. Stäubli connectors are not suitable for connection or disconnection under load. No breaking capacity can be specified.

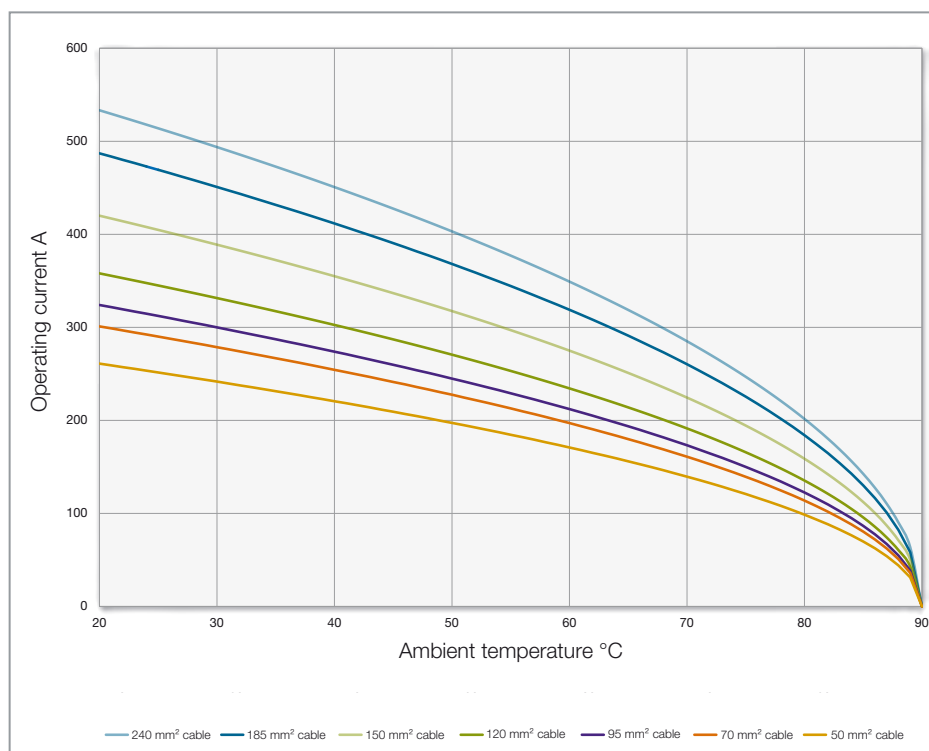
Derating diagrams

The current carrying capacity of a connector cannot exceed that of the connected conductor.

The diagrams show examples of the rated current according to various ambient temperatures.

16BV connector

Reduction factor 0.9



Derating for electrical machines

If the connectors are used in electrical systems with machines, the IEC 60204-1 (VDE 0113 Part 1) standard "Safety of machin-

ery" is applied instead of VDE 0298-4. This specifies the permissible current-carrying capacity of PVC-insulated copper cables under continuous current in machine use, at

an ambient temperature of 40 °C. For bundled leads and cables, additional reduction factors apply under these conditions.

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