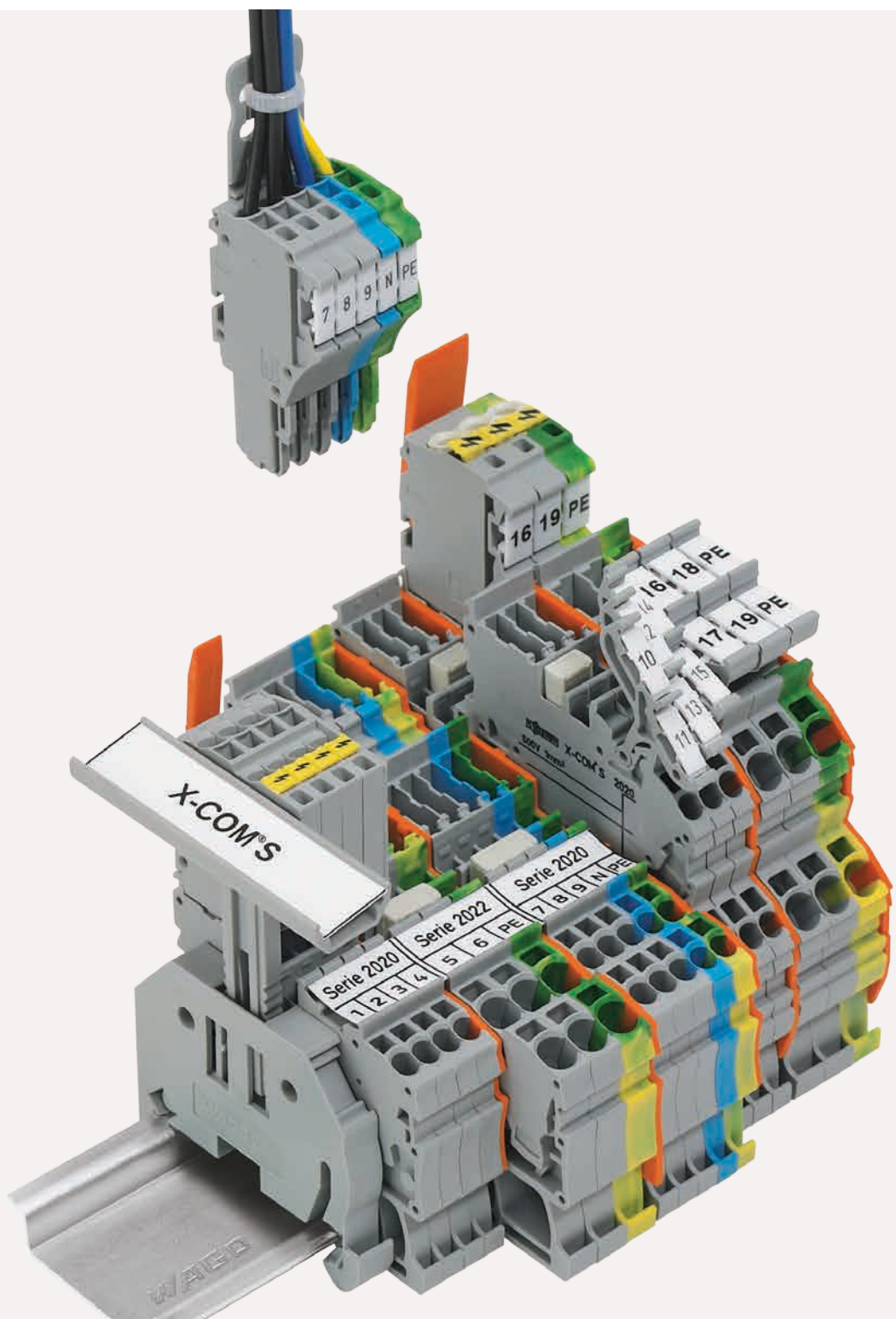


X-COM[®]- and X-COM[®]S-SYSTEM

Pluggable Rail-Mounted Terminal Blocks



Contents

X-COM®-SYSTEM	04
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X-COM®-SYSTEM, X-COM®S-SYSTEM, X-COM®S-SYSTEM-MINI Female Plugs	20
X-COM®S-SYSTEM for Ex Applications	22

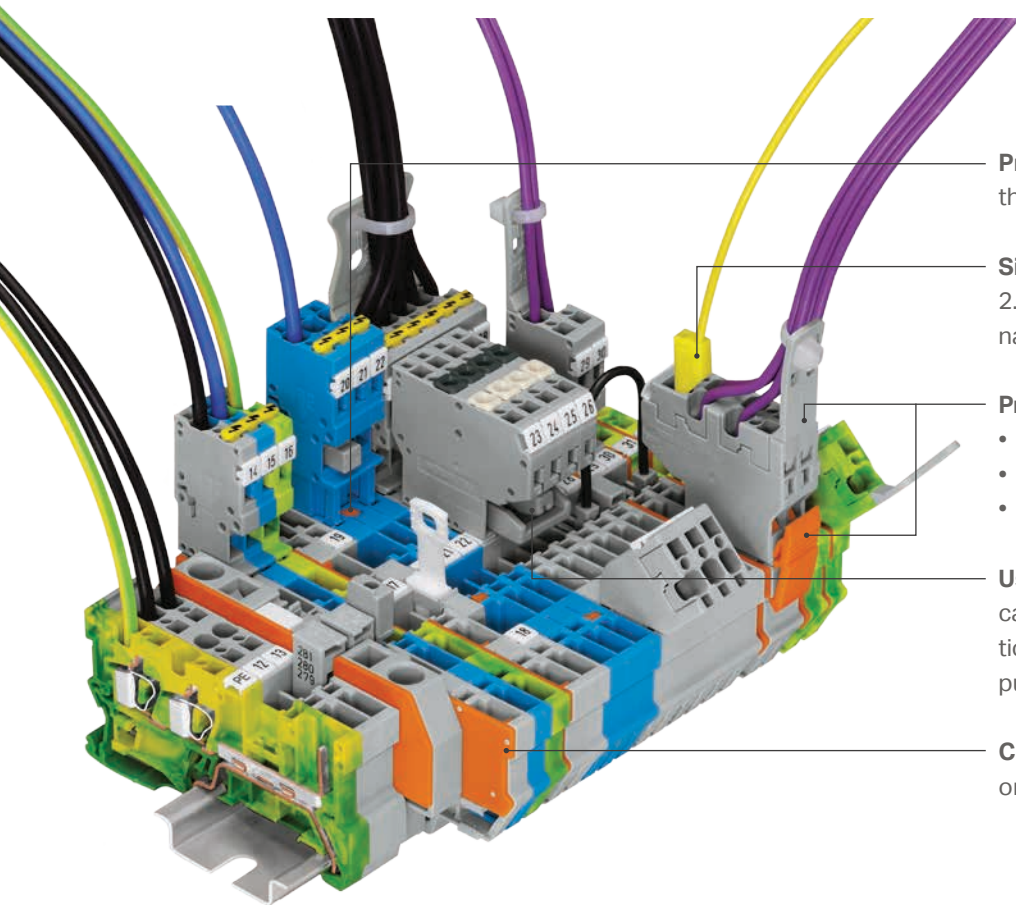


Wide Model Range
500 V / 32 A
100 % Mismatching Protection
100 % Touch-Proof Protection

YOUR ADVANTAGES:

- **During production: Pre-wired subassemblies can be tested before installation.**
- **During installation: Pre-assembled components and mismatching protection save time and money – even non-professionals can perform the installation.**
- **During operation and maintenance: Sub-assemblies can be replaced quickly and error-free.**

X-COM[®]-SYSTEM



Prevent mismatching by coding groups with the same pole numbers.

Simply test via slots for test plug (2 mm Ø + 2.3 mm Ø) in female plugs and carrier terminal blocks.

Provide mechanical protection via:

- Locking levers
- Strain relief plates and
- Strain relief housings

Use jumpers to common female plugs and carrier terminal blocks; select pole connections remain even after the plug has been pulled out.

Clearly separate and form groups using orange end plates.

IRIS Certified



WAGO products for railway applications are developed according to the latest standards and guidelines. This is verified through routine certifications by TÜV Süd. With the internationally recognized IRIS certification, WAGO meets the highest quality standards in railway technology.

Fire Protection

Polyamide PA 6.6 V0 used by WAGO as insulation corresponds with the classifications of the fire protection standards below. These must be met for compliance with railway requirements:

- EN 45545
- ASTM E 162
- ASTM E 662
- SMP 800-C

The X-COM[®]-SYSTEM meets all of the requirements of DIN EN 50155 ("railway standard").

Technical Data

Connection technology: CAGE CLAMP[®]

0.08 ... 4 mm²

500 V / 6 kV / 3

32 A

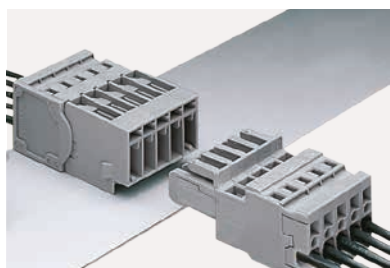
28 ... 12 AWG

300 V, 10 A UL

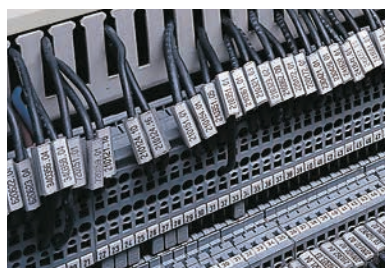
Module width: 5 mm / 0.197 in.

X-COM[®]-SYSTEM (5 mm spacing) is compatible with WAGO's 280 Series accessories.

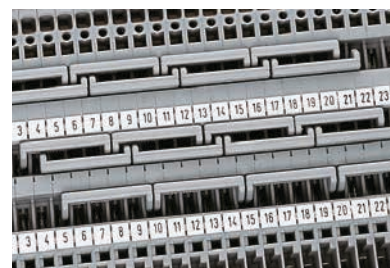
There Are X More Good Reasons to Use X-COM®-SYSTEM



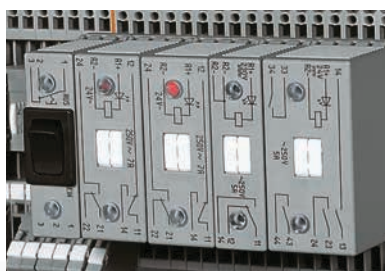
Male connectors with snap-in mounting feet:
Cost-saving snap-in mounting on perforated metal plates or flat surfaces



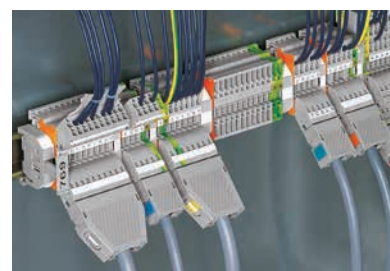
Easy configuration and testing using 1-pole female plugs



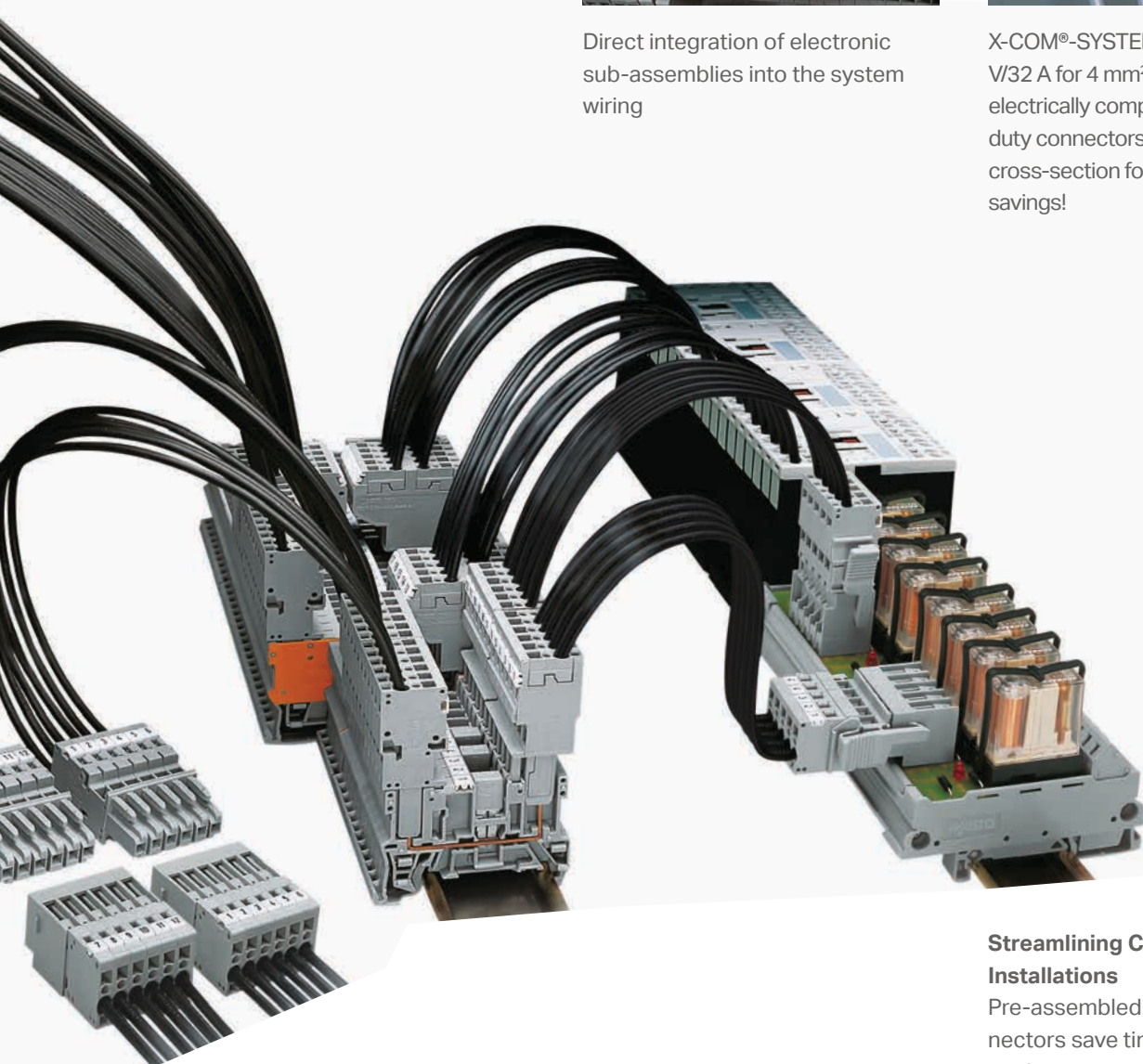
Pluggable potential distribution for up to 6 potentials



Direct integration of electronic sub-assemblies into the system wiring



X-COM®-SYSTEM is rated at 500 V/32 A for 4 mm² (12 AWG), making it electrically compatible with heavy-duty connectors of the same cross-section for up to 60 % cost savings!

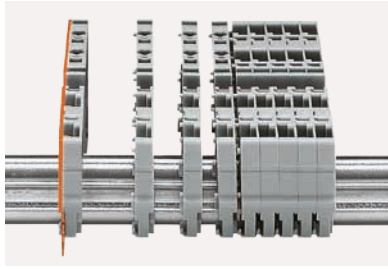


Streamlining Control Cabinet Installations

Pre-assembled pluggable connectors save time and money in all application areas.

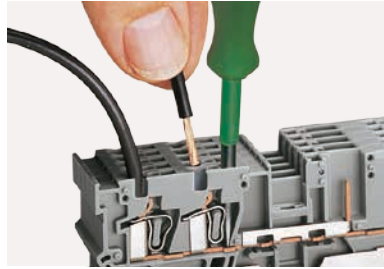
INSTALLATION

MOUNTING



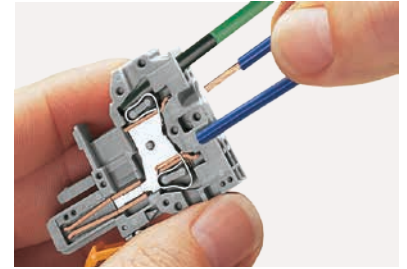
Snap individual carrier terminal blocks onto the carrier rail and slide together.

CAGE CLAMP® CONNECTION



Carrier terminal block: Inserting/removing a conductor via operating tool (3.5 x 0.5 mm blade).

CAGE CLAMP® CONNECTION



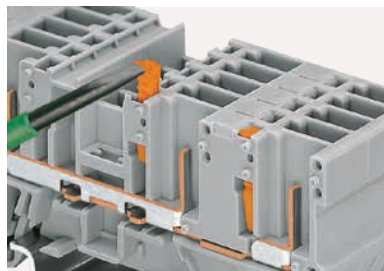
Female plug: Inserting/removing conductor. Operating at a 90° angle is also possible.

CODING



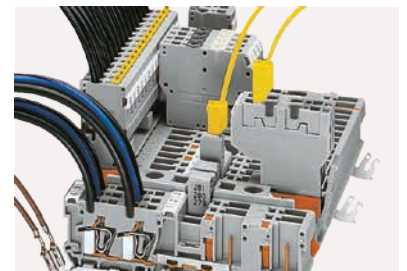
Coding a female plug by removing coding finger(s). Do not remove the first and last coding fingers or use an additional locking lever.

CODING



Snapping a coding pin in the proper direction onto a carrier terminal block. Shown: Removing a coding pin from the carrier terminal block.

TESTING



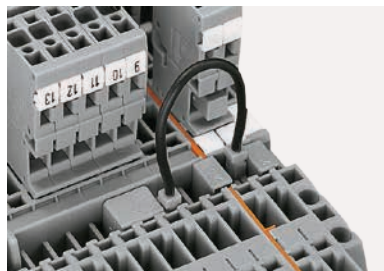
Testing with 2 mm or 2.3 mm Ø test plugs (max. test voltage: 42 V).

COMMONING



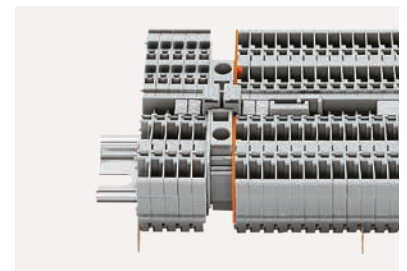
Common carrier terminal blocks via adjacent and staggered jumpers. Use staggered jumpers for 2-conductor female plugs and miniature adjacent jumpers for 1-conductor female plugs.

COMMONING



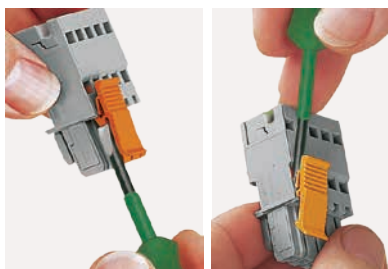
Commoning carrier terminal blocks with a push-in type wire, or an adjacent jumper over the end plate.

COMMONING



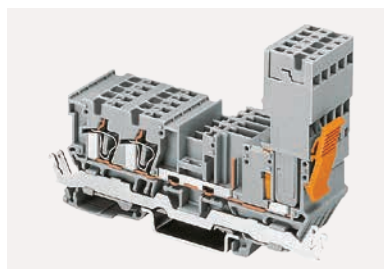
Commoning "supply terminal blocks" (up to 10 mm²/8 AWG) with carrier terminal blocks via step-down jumpers.

LOCKING LEVER



Snapping in/removing locking lever.

LOCKING LEVER



Securing female plug via locking lever on the terminal block side.

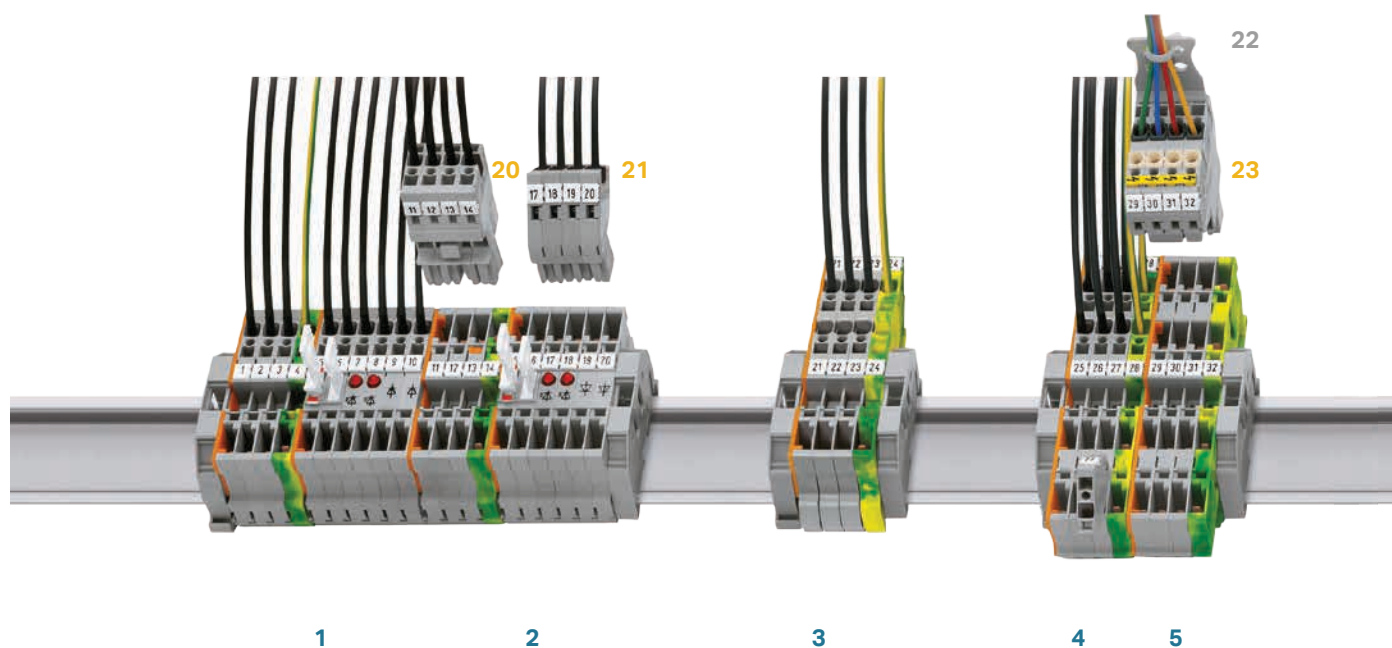
REMOVAL



Open the assembly by laterally sliding a block via operating tool, then snap off terminal block from the rail.

THE X-COM[®] FAMILY

At a Glance

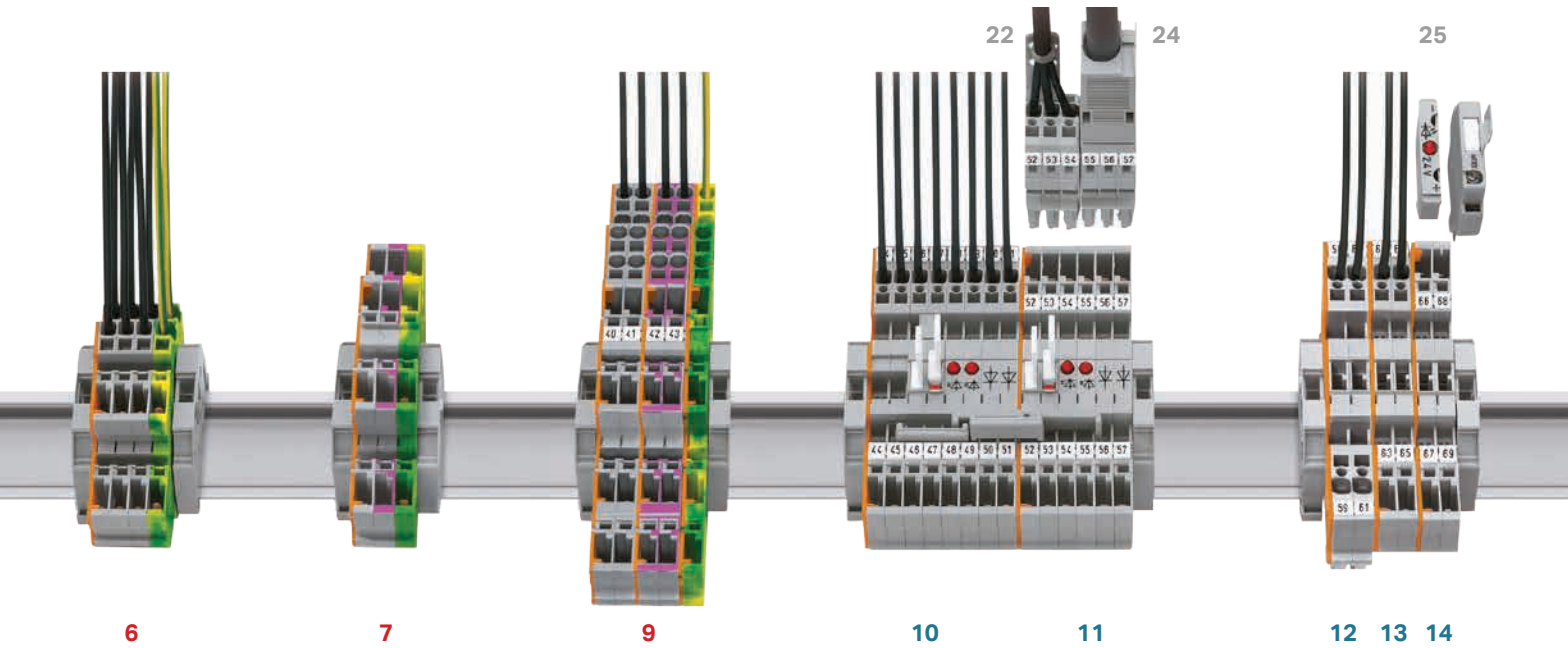


Carrier Terminal Blocks	Color	1-Cond./1-Pin	2-Pin	2-Cond./1-Pin	2-Cond./2-Pin
		1	2	3	4
	gray	769-176	769-156	769-251	769-171
	internally commoned				
	blue	769-176/000-006		769-251/000-006	769-171/000-006
... with shield contact	gray	769-231	769-221		769-211
Ground carrier terminal block	green yellow	769-237	769-227	769-257	769-217
Disconnect carrier terminal block	gray	769-232	769-222		
... with shield contact	gray	769-233	769-223		
Diode carrier terminal block	gray				
Anode, right side		769-238/281-411	769-228/281-411		
Anode, left side		769-238/281-410	769-228/281-410		
LED carrier terminal block	gray				
Anode, right side		769-239/281-413	769-229/281-413		
Anode, left side		769-239/281-434	769-229/281-434		
End plate	gray	769-307	769-305	769-320	769-303
	orange	769-308	769-306	769-321	769-304
Separator plate	orange				

**for 870 Series

Female Plugs, with coding fingers	1-Cond., straight, gray**	1-Cond., straight, blue**	1-Cond., angled**	2-Cond., straight	1-Cond. Female Plugs, with lateral locking lever
	20		21	23	
1 pole	769-101	/000-006	/022-000	769-121	
2 poles	769-102	/000-006	/022-000	769-122	769-102/021-000
...
15 poles	769-115	/000-006	/022-000	769-135	769-115/021-000

Female plugs for self-assembly, see page 20



6 **7** **9** **10** **11** **12 13 14**

4-Pin

1-Cond./1-Pin

2-Pin

1-Cond./1-Pin

2-Pin/2-Pin

2-Cond./1-Pin

2-Cond./2-Pin

Function Terminal
Blocks

Double-Deck Terminal Blocks



5 **10** **11** **6** **7** **8** **9**

769-151	769-181	769-161	870-101	870-151	870-1131	870-131
			870-108	870-158	870-1138	870-138
769-201						
769-207			870-107	870-157	870-1137	870-137
	769-212	769-202				
	769-213	769-203				
	769-218/281-411	769-208/281-411				
	769-218/281-410	769-208/281-410				
	769-219/281-413	769-209/281-413				
	769-219/281-434	769-209/281-434				
769-301	769-311	769-309	870-118	870-168	870-1148	870-148
769-302	769-312	769-310	870-119	870-169	870-1149	870-149
	769-314	769-313				

System Accessories



22

1 pole	769-410	6 ... 9 poles	769-413
2 ... 3 poles	769-411	10 ... 15 poles	769-414
4 ... 5 poles	769-412		



24



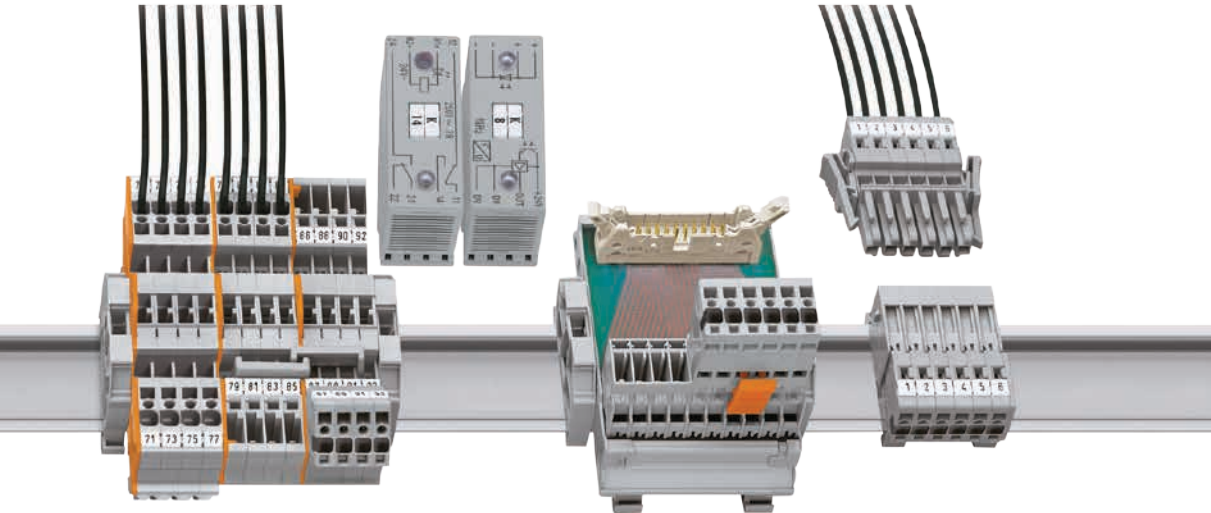
25



26

2 poles	769-1602	Component plug, e.g., fuse, diode, LED, 280 and 281 Series	Electronic module, e.g., switching relay, optocoupler, 286 and 286 Series
3 poles	769-1603		
...	...		
15 poles	769-1615		

26



15

16

17

18














19

Carrier Terminal Blocks for Pluggable Modules

	Color	1-Cond./1-Pin	1-Cond./1-Cond.	2-Pin
		13	12	14
	gray	769-181	769-191	769-161
End plate	gray	769-311	769-317	769-309
	orange	769-312	769-318	769-310
Separator, oversized	orange	769-314	769-319	769-313
	gray	16	15	17
4 poles		769-182/769-314	769-192/769-319	769-162/769-313
6 poles		769-183/769-314	769-193/769-319	769-163/769-313
8 poles		769-184/769-314	769-194/769-319	769-164/769-313
10 poles		769-185/769-314	769-195/769-319	769-165/769-313

Male Headers with Solder Pins

	Gray	Straight	Angled	With CAGE CLAMP®	With CAGE CLAMP® and Feedthrough Flanges	With CAGE CLAMP® and Snap-In Flanges
		18		19		
2 poles		769-632	769-662	769-602	769-602/004-000	769-602/006-000
3 poles		769-633	769-663	769-603	769-603/004-000	769-603/006-000
...	
15 poles		769-645	769-675	769-615	769-615/004-000	769-615/006-000

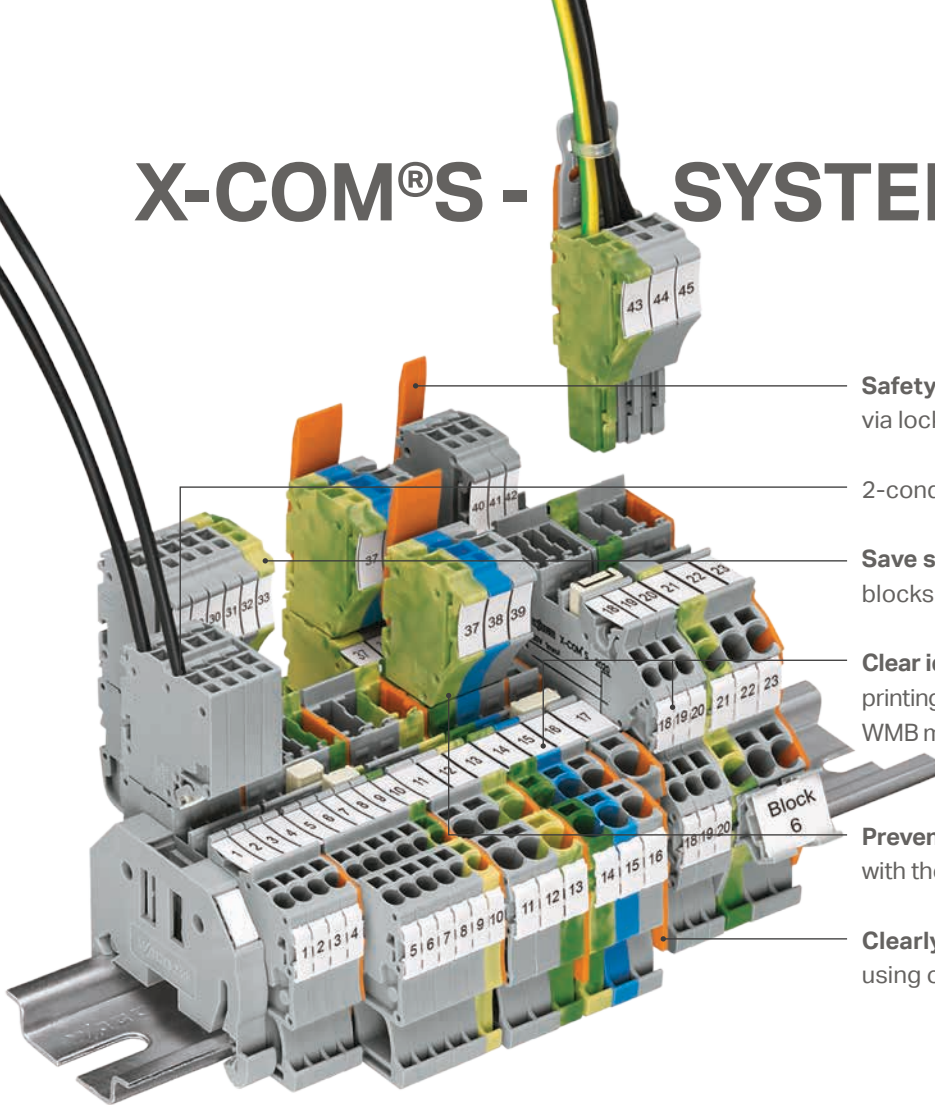
System Accessories						
Adjacent jumper				280-402		
Alternate jumper, insulated		gray	$I_N =$ terminal block	280-409		
Staggered jumper, insulated, 5 mm wide		1 to 2	I_N 24 A	780-452		
		1 to 3	I_N 24 A	780-453		
		1 to 4	I_N 24 A	780-454		
		1 to 5	I_N 24 A	780-455		
		1 to 6	I_N 24 A	780-456		
		1 to 7	I_N 24 A	780-457		
		1 to 8	I_N 24 A	780-458		
Push-in type wire jumper, insulated, 0.75 mm ² conductor size		60 mm	I_N 9 A	249-125		
		110 mm	I_N 9 A	249-126		
		250 mm	I_N 9 A	249-127		
Push-in type jumper bar, insulated, light gray**		2-pole	I_N 18 A	870-402		
		3-pole	I_N 18 A	870-403		
		4-pole	I_N 18 A	870-404		
		5-pole	I_N 18 A	870-405		
		6-pole	I_N 18 A	870-406		
		7-pole	I_N 18 A	870-407		
		8-pole	I_N 18 A	870-408		
		9-pole	I_N 18 A	870-409		
		10-pole	I_N 18 A	870-410		
		Push-in type jumper bar, insulated, light gray**		1 to 3	I_N 18 A	870-433
1 to 4	I_N 18 A			870-434		
1 to 5	I_N 18 A			870-435		
1 to 6	I_N 18 A			870-436		
1 to 7	I_N 18 A			870-437		
1 to 8	I_N 18 A			870-438		
1 to 9	I_N 18 A			870-439		
1 to 10	I_N 18 A			870-440		
Test plug module, can be snapped together, 5 mm wide				gray		280-418
Spacer module, can be snapped together, 5 mm wide				gray		280-419
Test plug, with 500 mm cable		red	2 mm Ø	210-136		
		yellow	2.3 mm Ø	210-137		
Test plug adapter for test plug			2.3 mm Ø	280-404		
Operating tool, for female plugs and male connectors with CAGE CLAMP®		Pliers		210-490		
Note: Only applicable for 1-conductor female plugs and male connectors		Operating lever		769-434		
Locking lever, 1-pole		gray orange		769-428 769-429		
Locking lever, 2-pole		gray orange		769-430 769-431		

**only for 870 Series

System Accessories				
Pin cover with miniature WSB marker slot***		gray orange		769-438 769-439
Jumper cover for 1-conductor female plugs		gray		769-436
Protective warning marker, with high-voltage symbol, for 5 terminal blocks		yellow		280-415 (769 Series) 280-405 (870 Series)
Insulation stop, 5 pcs/strip		white	0.08 ...	769-470
		light gray	0.2 mm ²	769-471
		dark gray	0.25 ...	769-472
			0.5 mm ²	280-470 (870 Series)
			0.75 ...	280-471 (870 Series)
		1 mm ²	280-472 (870 Series)	
Coding pins for female plugs***		orange		769-435
Miniature WSB Quick marking cards, 10 strips with 10 markers each		plain	5 mm	248-501
Disconnect lock				709-170
Screwless end stop, for DIN-35 rail		gray	6 mm wide	249-116
Screwless end stop, for DIN-35 rail		gray	10 mm wide	249-117

***also for 870 Series

X-COM[®]S - SYSTEM



Safety against unintentional disconnection via locking levers for female plugs

2-conductor female plugs

Save space via 3.5 mm terminal blocks and plugs

Clear identification via multi-line printing of marking strips and WMB markers

Prevent mismatching by coding groups with the same pole numbers

Clearly separate and form groups using orange end plates

Thanks to an identical profile, the pluggable X-COM[®]S-SYSTEM and TOPJOB[®] S Rail-Mount Terminal Blocks are compatible.

This benefits X-COM[®]S-SYSTEM users, for example, by providing access to a wide range of commoning and marking accessories used by TOPJOB[®] S Rail-Mounted Terminal Blocks. Both of these systems can be combined and customized to meet your specific needs. X-COM[®]S-SYSTEM is available in two different terminal block widths:

- 3.5 mm for conductors up to 1.5 mm² and 5.2 mm for conductors up to 4 mm²

Technical Data

Connection technology: Push-in CAGE CLAMP[®]

2020 Series: Terminate conductors up to 4 mm² (12 AWG) in a terminal block width of just 5.2 mm

2020 Series: Terminate conductors up to 1.5 mm² (16 AWG) in a terminal block width of just 3.5 mm

Compatible with TOPJOB[®] S rail-mounted terminal block accessories



IRIS Certified


WAGO solutions for railway applications are developed according to the latest standards and guidelines.

This is verified through routine certifications by TÜV Süd. With the internationally recognized IRIS certification, WAGO meets the highest quality standards in railway technology.

Fire Protection

Polyamide PA 6.6 V0 used by WAGO as insulation corresponds with the classifications of the fire protection standards below. These must be met for compliance with railway requirements:

- EN 45545
- ASTM E 162
- ASTM E 662
- SMP 800-C

An aerial photograph of a wind farm at sunset. The sun is low on the horizon, casting a warm orange glow over the landscape. Several wind turbines are visible, with one in the foreground being the most prominent. The turbines have white towers and blades with red and white stripes. The ground is a mix of green fields and brown patches, likely from construction or maintenance.

3.5 mm and Wider
Up to 690 V / 32 A
100 % Mismatching Protection
100 % Touch-Proof Protection

YOUR ADVANTAGES:

- **Push-in CAGE CLAMP®** enables solid conductors to be connected by simply pushing them into the unit
- **During production:** Pre-wired subassemblies can be tested before installation
- **During installation:** Pre-assembled components and mismatching protection save time and money – even non-professionals can perform the installation
- **During operation and maintenance:** Sub-assemblies can be replaced quickly and error-free

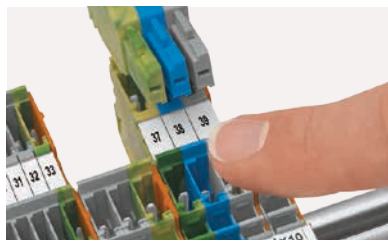
INSTALLATION

COMMONING



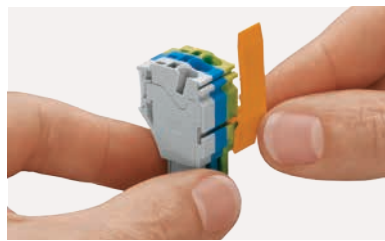
Commoning X-COM® S Terminal Blocks with TOPJOB® S Jumpers: an end plate provides connection to TOPJOB® S Terminal Blocks. 2020 and 2022 Series Terminal Blocks are combinable. Jumper slots are on the same level for both series.

TOUCH-PROOF PROTECTION



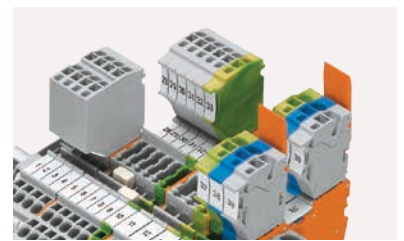
Carrier terminal blocks and female plugs are touch-proof.

LOCKING LEVER



Slide the locking lever into position.

LOCKING LEVER



Female plugs can be individually locked.

CODING



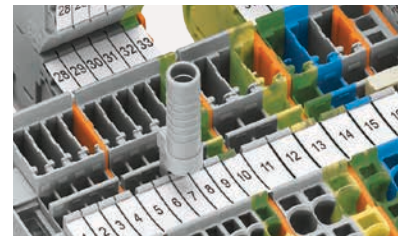
Remove the coding finger using a cutting tool.

CODING



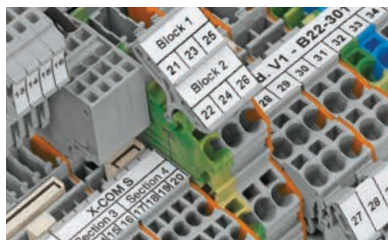
Insert coding pin into the corresponding slot and twist it off.

TESTING



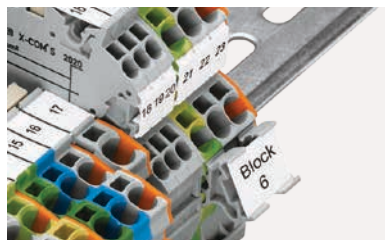
Test plug adapter for 4 mm test plugs or banana plugs – also suitable for X-COM®S-MINI Terminal Blocks.

MARKING



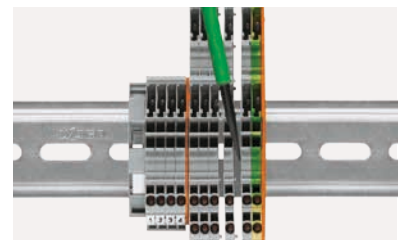
Clear marking via large marking area

MARKING



Additional marking option via snap-on type adapter

REMOVAL



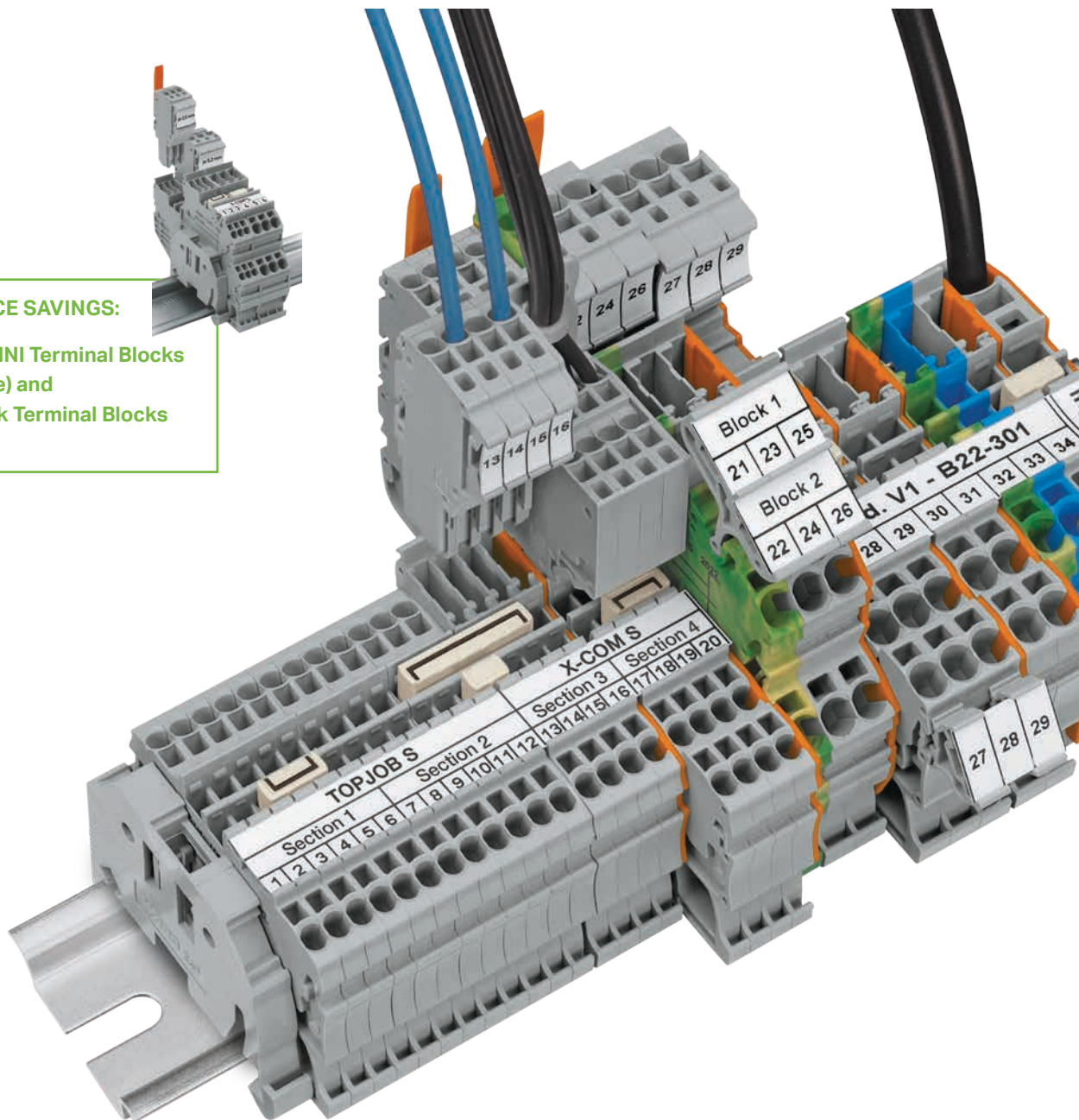
Separate terminal block assembly and slide individual terminal blocks laterally using an operating tool.

When used as intended, female plugs shall not be connected/disconnected when live or under load.



DOUBLE SPACE SAVINGS:

- X-COM®S-MINI Terminal Blocks (3.5 mm wide) and
- Double-Deck Terminal Blocks

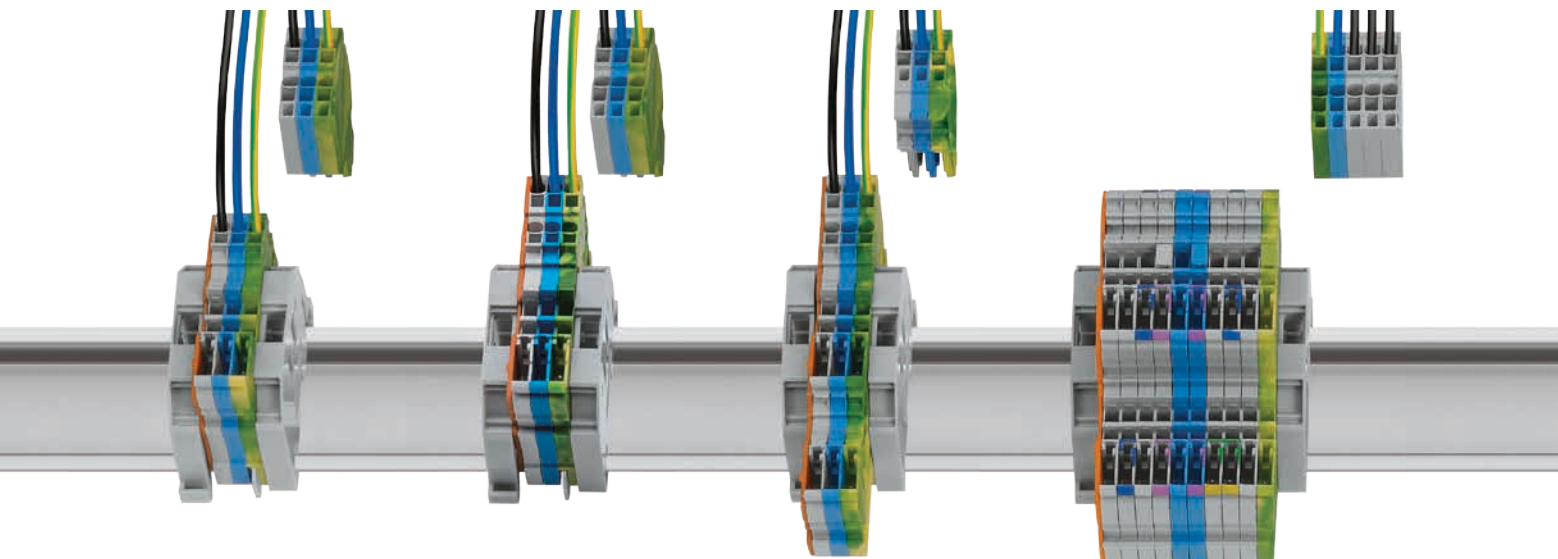


THE X-COM[®]S FAMILY

At a Glance

2020 Series Female Plugs, with coding fingers	Color	1-Conductor	2-Conductor
2 poles	gray	2020-102	2020-202
3 poles		2020-103	2020-203
...	
15 poles		2020-115	2020-215

An appropriate end plate must be applied to the carrier terminal block after each female plug.

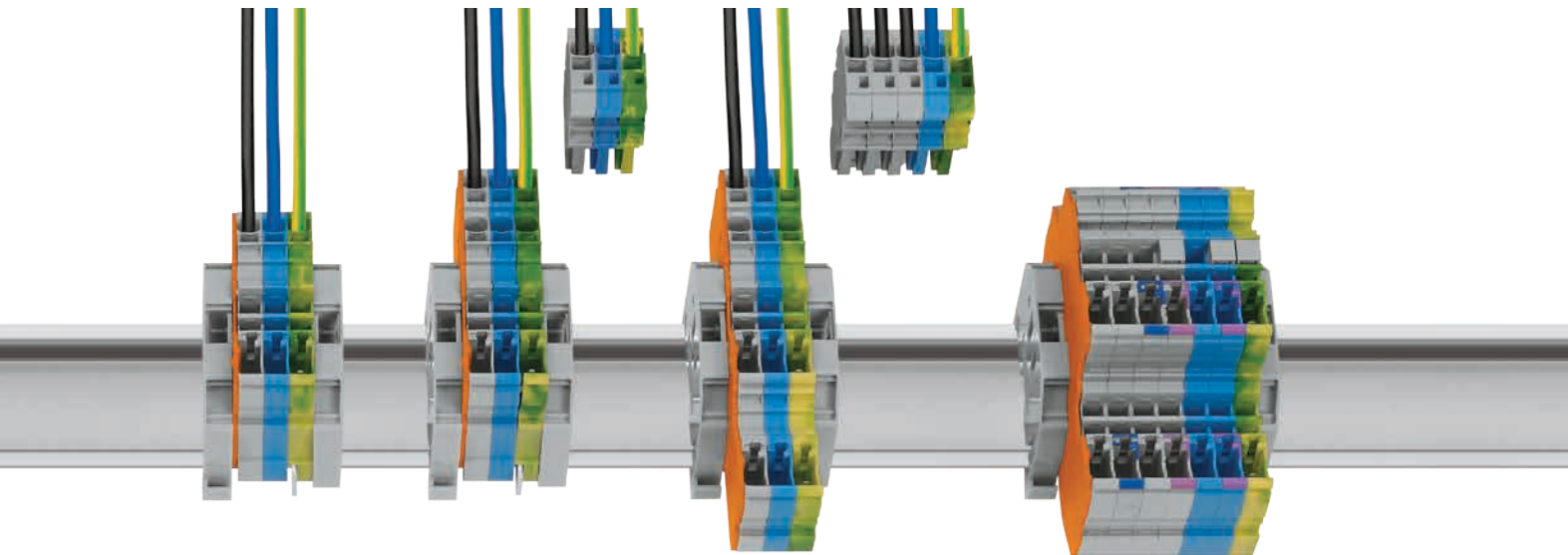







2020 Series	Color	Carrier Blocks, 1-cond./1-pin	Carrier Blocks, 2-cond./1-pin	Carrier Blocks, 2-cond./2-pin	Double-Deck Carrier Blocks, 1-cond./1-pin, with/without marker carrier	Double-Deck Carrier Terminal Blocks, 2-conductor/2-pin, internally commoned, with/without marker carrier	
gray		2020-1201	2020-1301	2020-1401	L/L	2020-2201/2020-2231	2020-2238/ 2020-2208
		—	—	—	N/L	2020-2202/2022-2232	—
		—	—	—	L/N	2020-2203/2022-2233	—
		—	—	—	PE/N	2020-2217/2022-2247	—
		—	—	—	PE/L	2020-2227/2022-2257	—
blue		2020-1204	2020-1304	2020-1404	N	2020-2204/2022-2234	2020-2239/ 2020-2209
green-yellow		2020-1207	2020-1307	2020-1407	PE	2020-2207/2022-2237	2020-2237/ 2020-2207
End plate	gray	2020-1291	2020-1391	2020-1491		2020-2291	2020-2291
	orange	2020-1292	2020-1392	2020-1492		2020-2292	2020-2292

Additional versions can be found in our Full Line Catalog, Volume 1, or online at: www.wago.com.

2022 Series Female Plugs, with coding fingers	Color	1-Conductor
1 pole	gray	2022-101
2 poles		2022-102
...		...
15 poles	Item numbers for the different versions can be found in our Full Line Catalog, Volume 1.	
1 pole	blue	
1 pole	green yellow	2022-101/000-016
2 poles	green yellow	2022-102/000-016

Item numbers for versions equipped with a locking lever and/or strain relief plate can be found in our Full Line Catalog, Volume 1.



2022 Series Color	Carrier Blocks, 1-cond./1-pin	Carrier Blocks, 2-cond./1-pin	Carrier Blocks, 2-cond./2-pin	Double-Deck Carrier Blocks, 1-cond./1-pin, with/without marker carrier	Double-Deck Carrier Blocks, 2-cond./2-pin internally commoned, with/without marker carrier
					
gray	2022-1201	2022-1301	2022-1401	L/L 2022-2201/2022-2231 N/L 2022-2202/2022-2232 L/N 2022-2203/2022-2233 PE/N 2022-2217/2022-2247 PE/L 2022-2227/2022-2257	2022-2238 / 2022-2208 2022-2239 / 2022-2209 2022-2237 / 2022-2207
blue	2022-1204	2022-1304	2022-1404	N 2022-2204/2022-2234	—
green-yellow	2022-1207	2022-1307	2022-1407	PE 2022-2207/2022-2237	—
End plate	gray 2022-1291	2022-1391	2022-1491	2022-2291	2022-2291
	orange 2022-1292	2022-1392	2022-1492	2022-2292	2022-2292



X-COM®S-SYSTEM-MINI


1-Female Plugs, with a factory-equipped strain relief plate	
2 poles	2020-102/132-000 (2 ... 3 poles)
3 poles	2020-103/132-000 (2 ... 3 poles)
4 poles	2020-104/133-000 (4 ... 6 poles)
...	
7 poles	2020-107/134-000 (7 ... 9 poles)
...	
10 poles	2020-110/135-000 (10 ... 15 poles)
...	
15 poles	2020-115/135-000 (10 ... 15 poles)

2-Female Plugs, with a factory-equipped strain relief plate	
2 poles	2020-202/132-000 (2 ... 3 poles)
3 poles	2020-203/132-000 (2 ... 3 poles)
4 poles	2020-204/133-000 (4 ... 6 poles)
...	
7 poles	2020-207/134-000 (7 ... 9 poles)
...	
10 poles	2020-210/135-000 (10 ... 15 poles)
...	
15 poles	2020-215/135-000 (10 ... 15 poles)


X-COM®S-SYSTEM


1-Female Plugs, with a factory-equipped strain relief plate	
1 pole	2022-101/132-000
2 poles	2022-102/132-000
3 poles	2022-103/133-000
4 poles	2022-104/133-000
5 poles	2022-105/134-000
6 poles	2022-106/134-000
7 poles	2022-107/135-000
8 poles	2022-108/135-000
9 poles	2022-109/135-000
10 poles	2022-110/135-000
11 poles	2022-111/136-000
12 poles	2022-112/136-000
13 poles	2022-113/136-00
14 poles	2022-114/136-000
15 poles	2020-115/137-000


System Accessories, 2020 Series				
Push-in type jumper bar, insulated, light gray		2-pole	I _N 14 A	2000-402
		3-pole	I _N 14 A	2000-403
		4-pole	I _N 14 A	2000-404
		5-pole	I _N 14 A	2000-405
		6-pole	I _N 14 A	2000-406
		7-pole	I _N 14 A	2000-407
		8-pole	I _N 14 A	2000-408
		9-pole	I _N 14 A	2000-409
		10-pole	I _N 14 A	2000-410
		Push-in type jumper bar, insulated, light gray		1 to 3
1 to 4	I _N 14 A			2000-434
1 to 5	I _N 14 A			2000-435
1 to 6	I _N 14 A			2000-436
1 to 7	I _N 14 A			2000-437
1 to 8	I _N 14 A			2000-438
1 to 9	I _N 14 A			2000-439
1 to 10	I _N 14 A			2000-440

Carrier with 6 coding pins, for coding female plugs		orange	2020-100
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WMB Multi marking system, 10 strips with 10 markers per card		plain	for 3.5 mm terminal block width	793-3501
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WMB Inline, 2300 WMB markers (3.5 mm) on roll		plain		2009-113
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Double-deck marker carrier, pivoting		gray		2000-121
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Protective warning marker, with high-voltage symbol, for 5 terminal blocks		yellow		2002-115
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Test pin		1 mm Ø		859-500
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System Accessories, 2022 Series				
Push-in type jumper bar, insulated, light gray		2-pole	I _N 25 A	2002-402
		3-pole	I _N 25 A	2002-403
		4-pole	I _N 25 A	2002-404
		5-pole	I _N 25 A	2002-405
		6-pole	I _N 25 A	2002-406
		7-pole	I _N 25 A	2002-407
		8-pole	I _N 25 A	2002-408
		9-pole	I _N 25 A	2002-409
		10-pole	I _N 25 A	2002-410
		Push-in type jumper bar, insulated, light gray		1 to 3
1 to 4	I _N 25 A			2002-434
1 to 5	I _N 25 A			2002-435
1 to 6	I _N 25 A			2002-436
1 to 7	I _N 25 A			2002-437
1 to 8	I _N 25 A			2002-438
1 to 9	I _N 25 A			2002-439
1 to 10	I _N 25 A			2002-440
Double-deck vertical jumper, insulated, light gray				
Carrier with 6 coding pins, for coding female plugs		orange		2022-100
WMB Multi marking system, 10 strips with 10 markers per card		plain	stretch-able, 5 ... 5.2 mm	793-5501
Double-deck marker carrier, pivoting		gray		2002-121
Protective warning marker, with high-voltage symbol, for 5 terminal blocks		yellow		2002-115
Insulation stop, 5 pcs/strip		light gray	0.25 ... 0.5 mm ²	2002-171
WMB Inline, 1500 WMB markers (5 mm) on roll		plain	stretch-able, 5 ... 5.2 mm	2009-115
Marker carrier				2009-198

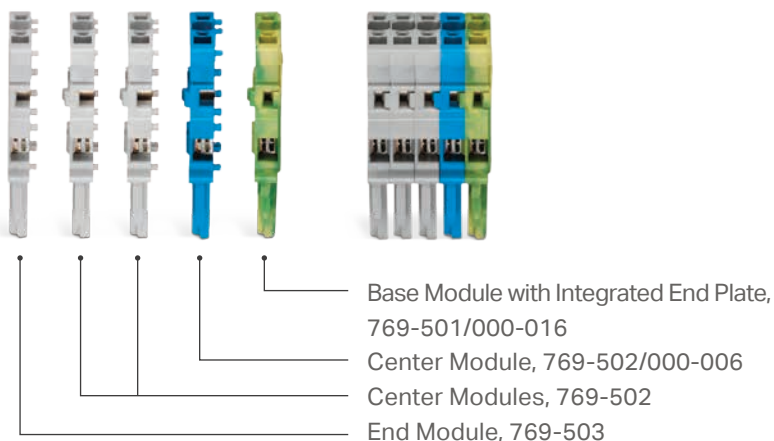
System Accessories, 2020/2022 Series				
Testing tap			for max. 2.5 mm ²	2009-182
Strain relief plate		gray	6 mm wide 12.5 mm wide 25 mm wide 35 mm wide 55 mm wide 75 mm wide	734-327 734-328 734-329 734-326 734-430 734-431
Locking lever		orange gray	9.6 mm wide	2022-152 2022-151
Locking lever		orange gray	4.8 mm wide	2022-142 2022-141
WMB Multi marking system, 10 strips with 10 markers per card		plain	for 3.5 mm terminal block width	793-3501
Marking strip, plain, 50 m roll		white	11 mm wide	2009-110
Screwless end stop, for DIN-35 rail		gray	6 mm wide	249-116
Screwless end stop, for DIN-35 rail		gray	10 mm wide	249-117
Operating tool, with a partially insulated shaft		Type 1, (2.5 x 0.4) mm blade		210-719
		Type 2, (3.5 x 0.5) mm blade		210-720
		(3.5 x 0.5) mm blade, short		210-657
		Type 2, (3.5 x 0.5) mm blade, short, angled		210-658
		Type 1, (2.5 x 0.4) mm blade, short		210-647
		Type 1, (2.5 x 0.4) mm blade, short, angled		210-648

FEMALE PLUGS – FOR SELF-

WAGO's modular female plugs can be customized for applications requiring

X-COM®-SYSTEM

Example: 5-Pole, 1-Conductor X-COM®-SYSTEM Female Plug



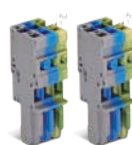
A self-assembled X-COM®-SYSTEM Female Plug consists of:

- One base module with an integrated end plate
- Up to 13 center modules (corresponding to a 15-pole female plug = maximum pole number)
- One end module

	1-Conductor End Module	1-Conductor End Module, Angled	2-Conductor End Module
gray	769-503	769-515	769-506
blue	769-503/000-006	769-515/000-006	769-506/000-006
green yellow	769-503/000-016	769-515/000-016	769-506/000-016
	1-Conductor Center Module	1-Conductor Center Module, Angled	2-Conductor Center Module
gray	769-502	769-513	769-505
blue	769-502/000-006	769-513/000-006	769-505/000-006
green yellow	769-502/000-016	769-513/000-016	769-505/000-016
	1-Conductor Base Module	1-Conductor Base Module, Angled	2-Conductor Base Module
gray	769-501	769-512	769-504
blue	769-501/000-006	769-512/000-006	769-504/000-006
green yellow	769-501/000-016	769-512/000-016	769-504/000-016

Pre-Assembled Female Plugs

X-COM®-SYSTEM, 769 Series, 1-Conductor Female Plugs



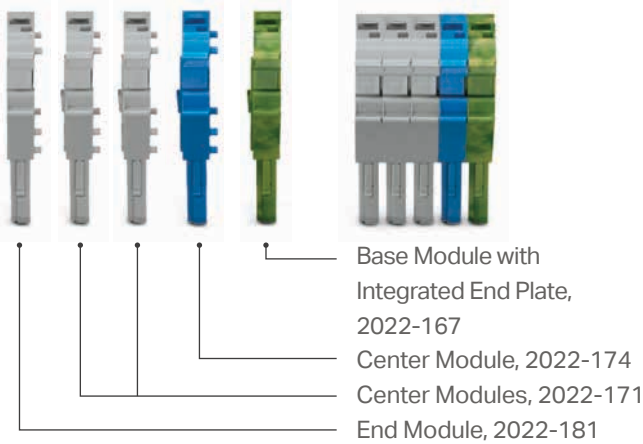
	3 poles	5 poles
with ground base module + blue center module	769-103/000-038	769-105/000-038
with ground end module + blue center module	769-103/000-039	769-105/000-039
with ground base module	769-103/000-036	
with ground end module	769-103/000-037	

ASSEMBLY

varying numbers of poles. For example, when designing prototypes.

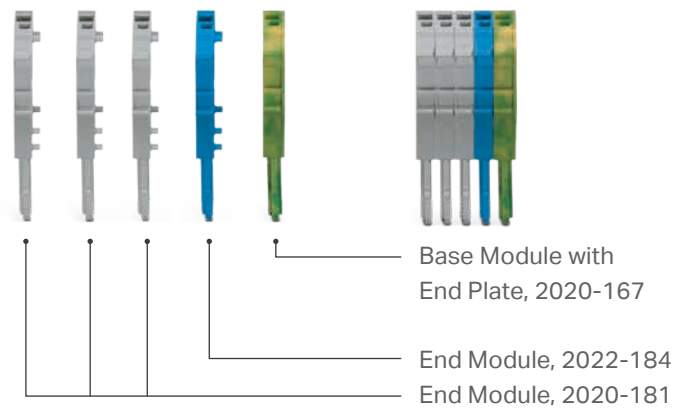
X-COM®S-SYSTEM

Example: 5-Pole, 1-Conductor X-COM®S-SYSTEM Female Plug



X-COM®S-SYSTEM-MINI

Example: 5-Pole, 1-Conductor X-COM®S-SYSTEM-MINI Female Plug



A self-assembled X-COM®S-SYSTEM Female Plug consists of:

- One base module with an integrated end plate
- Up to 13 center modules
- One end module

X-COM®S-SYSTEM 2022 Series	1-Conductor End Module	1-Conductor Center Module	1-Conductor Base Module
gray	2022-181	2022-171	2022-161
blue	2022-184	2022-174	2022-164
green yellow	2022-187	2022-177	2022-167

A self-assembled X-COM®S-SYSTEM-MINI Female Plug consists of:

- One base module with an end plate
- Up to 14 end modules

X-COM®S-SYSTEM-MINI 2020 Series	1-Conductor End Module	1-Conductor Base Module	2-Conductor End Module	2-Conductor Base Module
gray	2020-181	2020-161	2020-281	2020-261
blue	2020-184	2020-164	2020-284	2020-264
green yellow	2020-187	2020-167	2020-287	2020-267

Pre-Assembled Female Plugs

Examples for ① and ②: 2020-105/000-038 and 2020-105/000-039

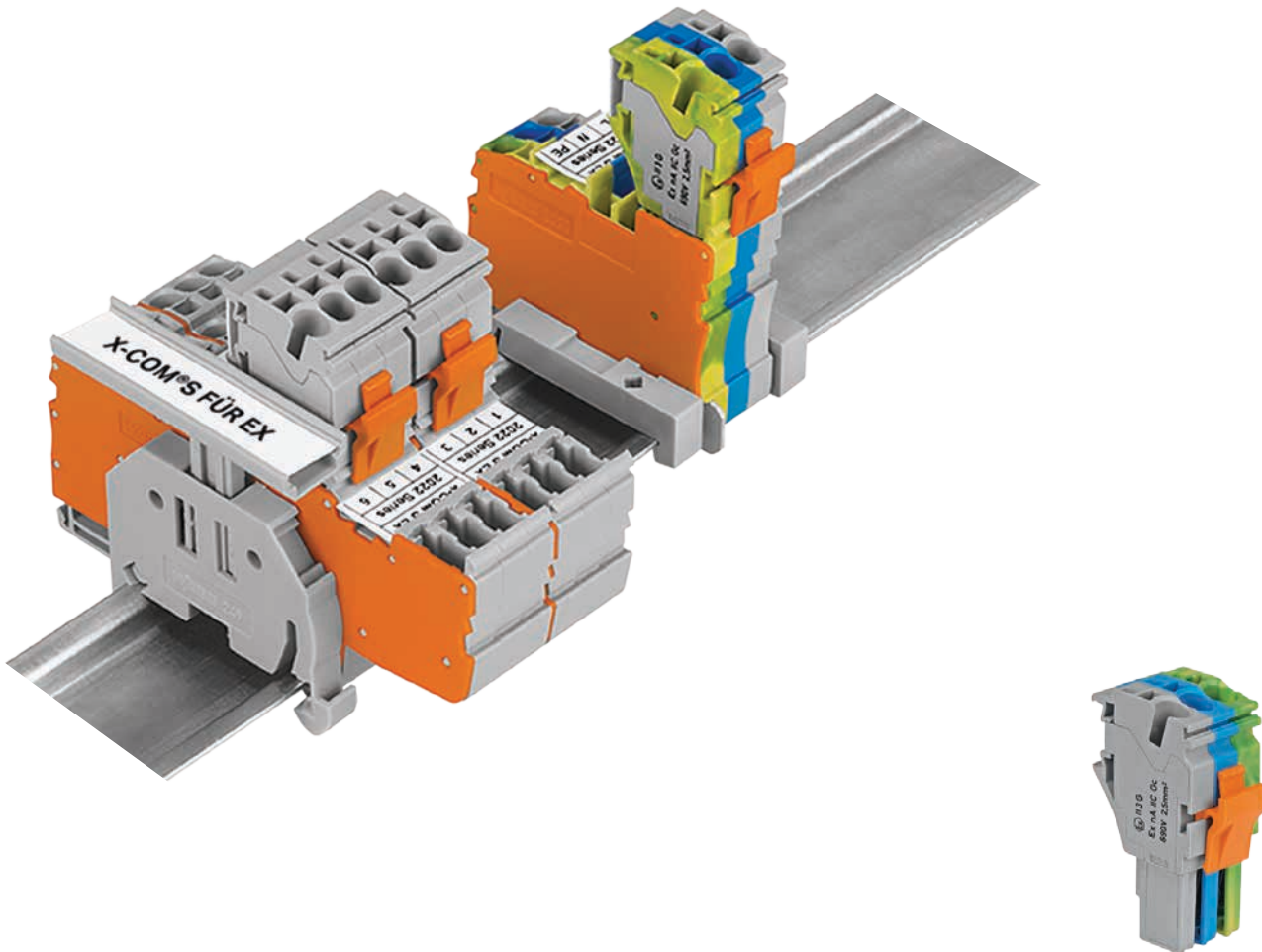
Examples for ③ and ④: 2020-205/000-036 and 2020-205/000-037

For more information, see Full Line Catalog, Volume 1.

	X-COM®S-SYSTEM, 2022 Series, 1-Conductor Female Plugs		X-COM®S-SYSTEM-MINI, 2020 Series, 1-Conductor Female Plugs		2-Conductor Female Plugs	
	3 poles	5 poles	3 poles	5 poles	3 poles	5 poles
① with ground base module + blue center module	2022-103/000-038	2022-105/000-038	2020-103/000-038	2020-105/000-038	2020-203/000-038	2020-205/000-038
② with ground end module + blue center module	2022-103/000-039	2022-105/000-039	2020-103/000-039	2020-105/000-039	2020-203/000-039	2020-205/000-039
③ with ground base module	2022-103/000-036	2022-105/000-036	2020-103/000-036	2020-105/000-036	2020-203/000-036	2020-205/000-036
④ with ground end module	2022-103/000-037	2022-105/000-037	2020-103/000-037	2020-105/000-037	2020-203/000-037	2020-205/000-037

X-COM S-SYSTEM

For Ex Applications



X-COM®S-SYSTEM is also available as an Ex variant. This variant is non-sparking ("nA" type of protection) and approved for use in Zone 2 hazardous areas.

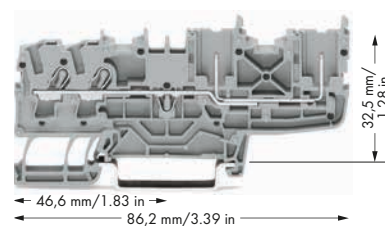
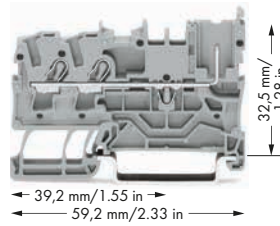
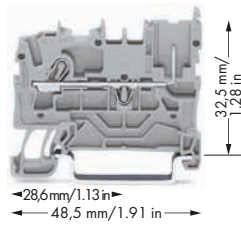
WAGO's pluggable rail-mounted terminal block system simplifies component replacement, minimizes the time and expense for system wiring, prevents wiring errors and ultimately reduces the downtime of sensitive equipment. It is the first system providing the "Ex nA" protection type that can be used in hazardous areas. Complete modules can be easily and quickly exchanged, expensive on-site installations are no longer necessary – it is a cost-saving and maintenance-friendly alternative.

"Ex" sign and extended item number ".../0999-0953" are printed on the side of both carrier terminal blocks and female plugs with Ex approval. With a maximum conductor size of 2.5 mm² (14 AWG), they are designed for a nominal current of 20 A. Shorter locking levers (factory-mounted) make accidental disconnection more difficult, while providing additional safety.

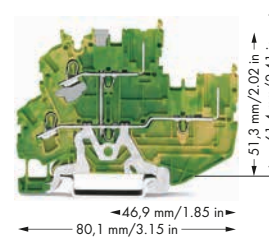
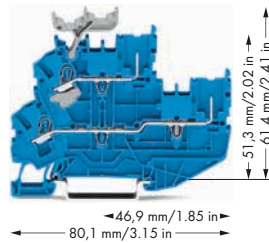
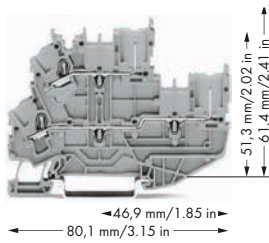
"n" refers to an ignition protection class in Zone 2: This zone covers areas in which a dangerous, explosive atmosphere consisting of gases, vapors or dust is unlikely to exist or will only persist for a short period if it does.

"A" means: non-sparking (function modules without relays/switches)

X-COM®S-SYSTEM, Ex nA, 2022 Series



Color	1-Cond./1-Pin Carrier Terminal Block	2-Cond./1-Pin Carrier Terminal Block	2-Cond./2-Pin Carrier Terminal Block
gray	2022-1201/999-953	2022-1301/999-953	2022-1401/999-953
blue	2022-1204/999-953	2022-1304/999-953	2022-1404/999-953
green yellow	2022-1207/999-953	2022-1307/999-953	2022-1407/999-953



Color	1-Cond./1-Pin Double-Deck Carrier Block, Through/Through Terminal Block, without marker carrier	1-Cond./1-Pin Double-Deck Carrier Block, Through/Through Terminal Block, with marker carrier	2-Cond./2-Pin Double-Deck Carrier Block, 2-Cond./2-Pin Ground Conductor Block, without marker carrier, internally commoned
gray	2022-2201/999-953	—	—
blue	—	2022-2234/999-953	—
green yellow	—	—	2022-2207/999-953



	1-Conductor Female Plug, with shorter locking lever	1-Conductor Female Plug, with shorter locking lever and ground base module	1-Conductor Female Plug, with shorter locking lever and ground end module
2 poles	2022-102/999-953	—	—
3 poles	2022-103/999-953	2022-103/000-038/999-953	2022-103/000-039/999-953
4 poles	2022-104/999-953	2022-104/000-038/999-953	2022-104/000-039/999-953
5 poles	2022-105/999-953	2022-105/000-038/999-953	2022-105/000-039/999-953
6 poles	2022-106/999-953	2022-106/000-038/999-953	2022-106/000-039/999-953
7 poles	2022-107/999-953	—	—
8 poles	2022-108/999-953	—	—

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