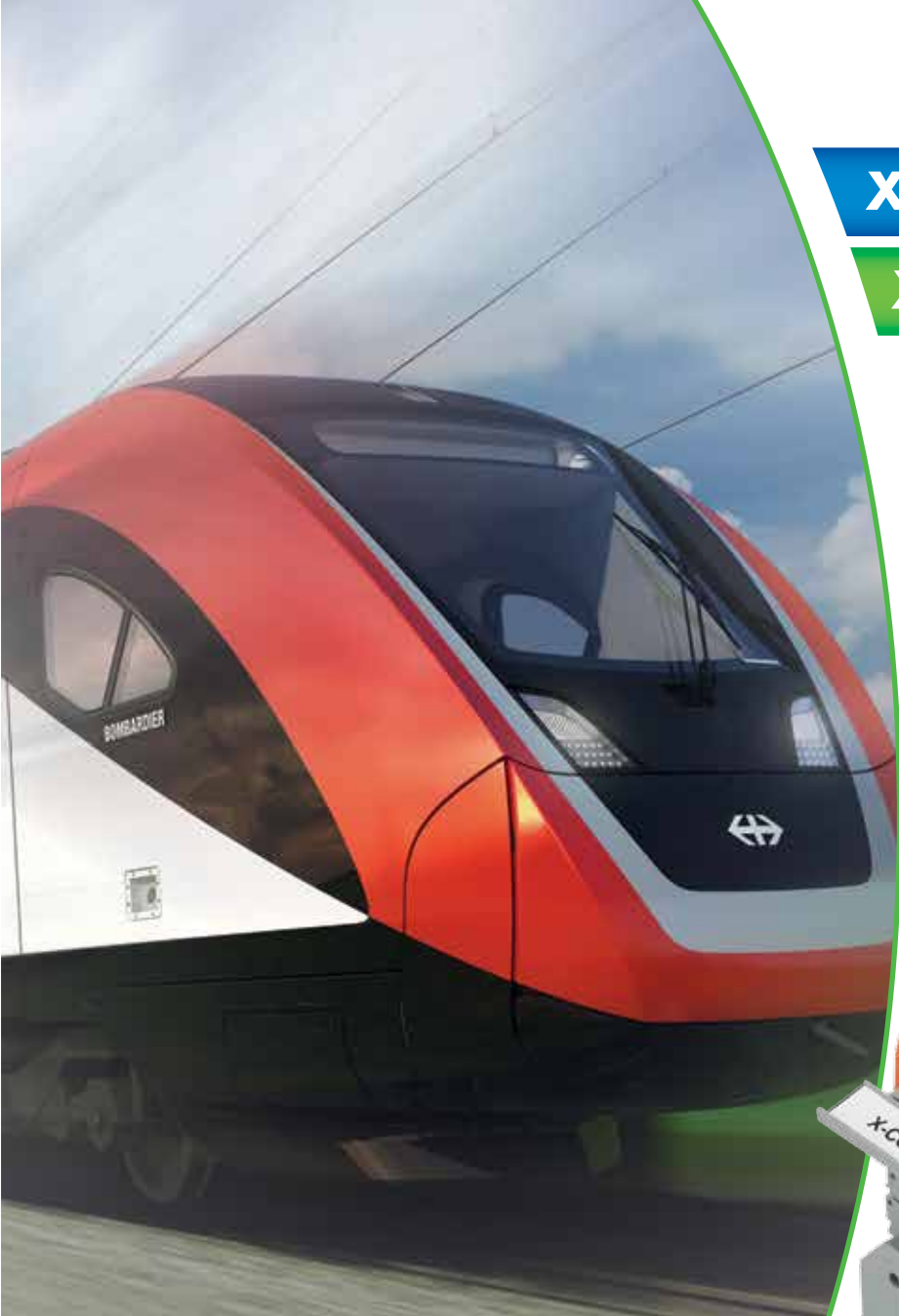
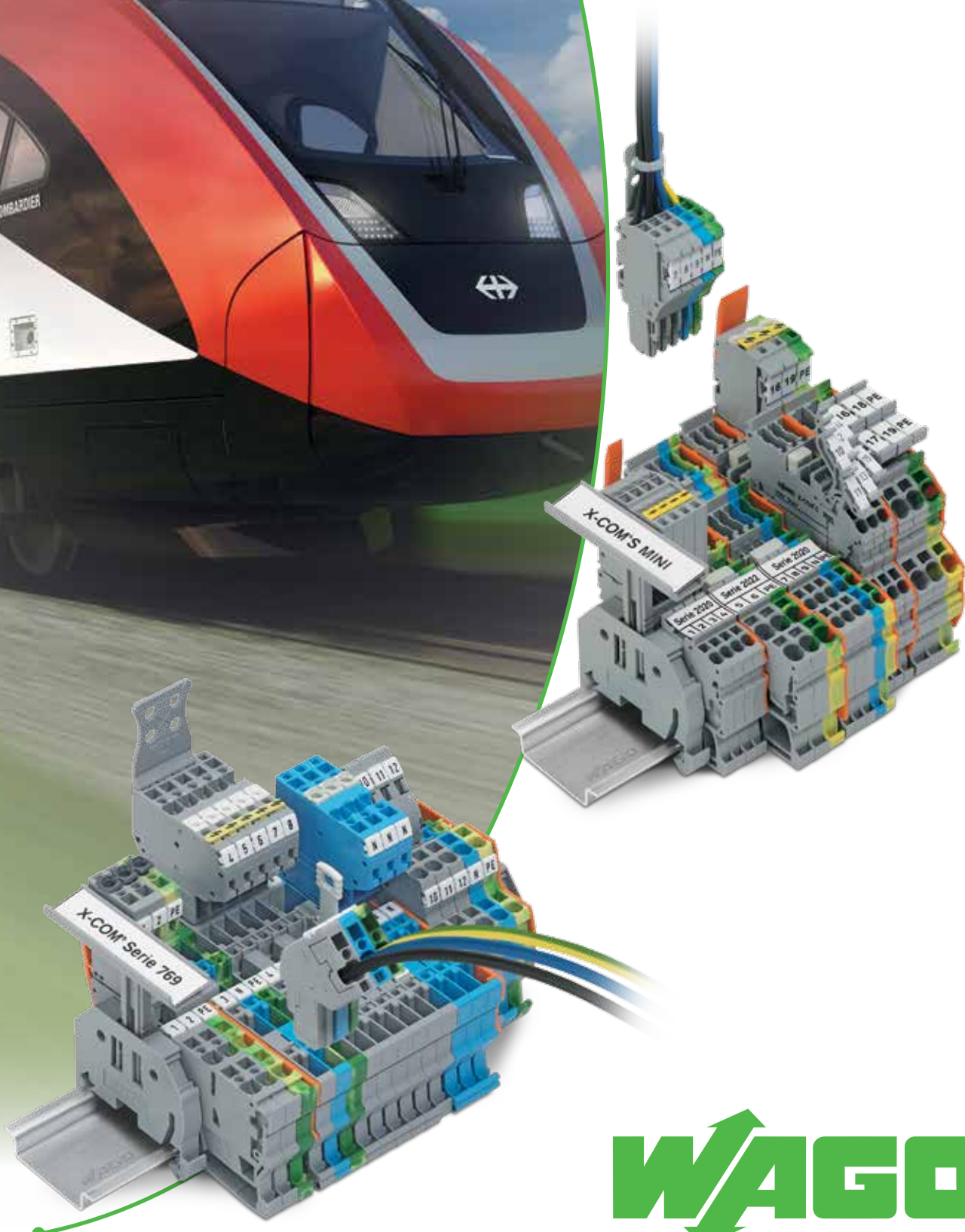




X-COM® - and

X-COM®S-SYSTEM

Pluggable – Universal – Proven



WAGO®

Our Solutions – Your Benefits

The WAGO X-COM®-SYSTEM

**High number
of models**

500 V/32 A

**100 % protected
against mismatching**

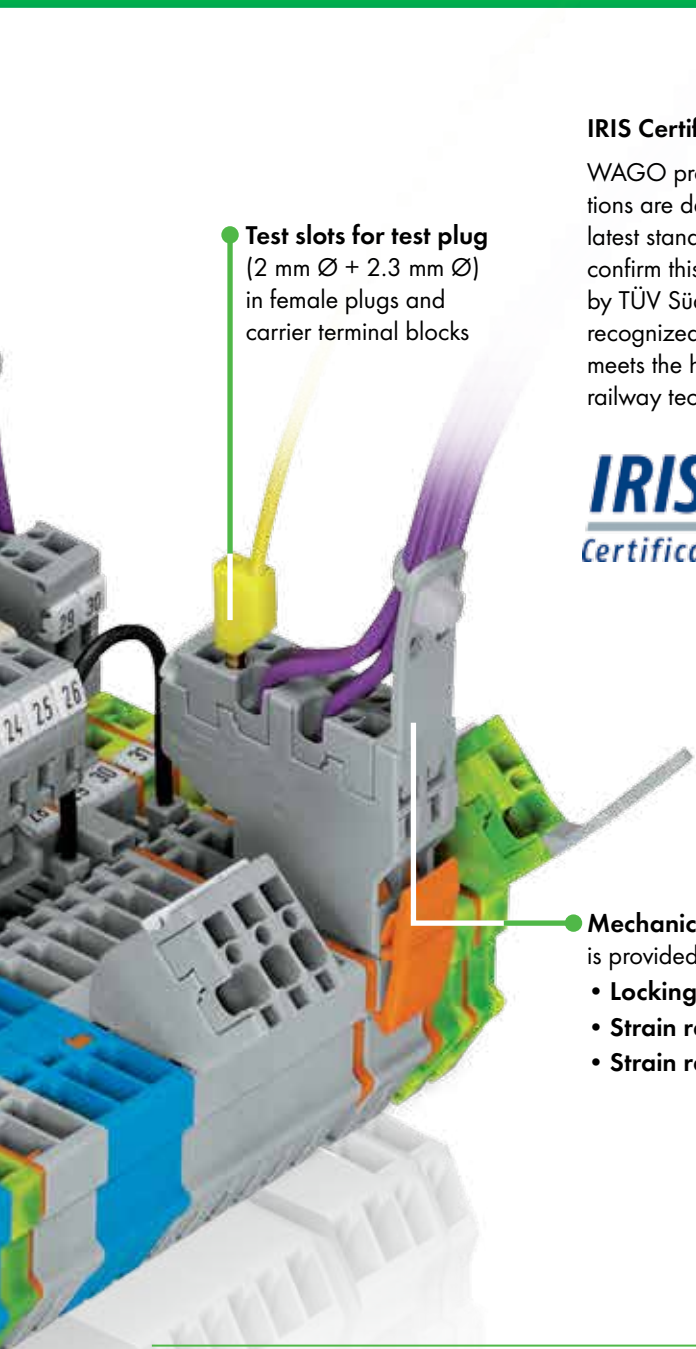
100 % touch-proof



● **Prevent mismatching**
by coding groups
with the same pole
numbers.

● **Orange end plates**
clearly separate and form
groups, while providing
touchproof safety.

● **Commoning options**
for both female plugs and
carrier terminal blocks.
Select pole connections
remain even after the plug
has been pulled out.



● **Test slots for test plug**
(2 mm Ø + 2.3 mm Ø)
in female plugs and
carrier terminal blocks

IRIS Certified

WAGO products for railway applications are developed according to the latest standards and guidelines. We can confirm this through regular certifications by TÜV Süd. With the internationally recognized IRIS certification, WAGO meets the highest quality standards in railway technology.



● **Mechanical protection**
is provided by:

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

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 according to railway requirements:

- prEN 45545
- DIN EN 5510-2
- NF F 16-101
- UNICEI 11170-3
- ASTM E 662
- ASTM E 162
- SMP 800-C
- BS 6853

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

Technical Data

Connection technology: CAGE CLAMP®

0.08 mm² – 4 mm²

500 V/6 kV/3

32 A

AWG 28 – 12

300 V, 10 A UL

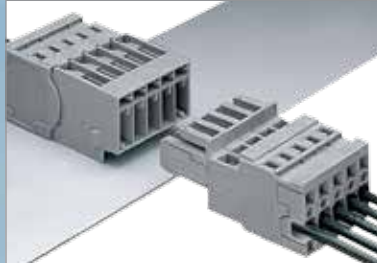
Module width: 5 mm / 0.197 in.

The 280 Series terminal block accessories are compatible with the WAGO X-COM®-SYSTEM (5 mm pin spacing).

Pluggable connection systems provide you the benefits of pre-assembly and a number of other advantages.

- **During assembly:**
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.

There Are **X** More Good

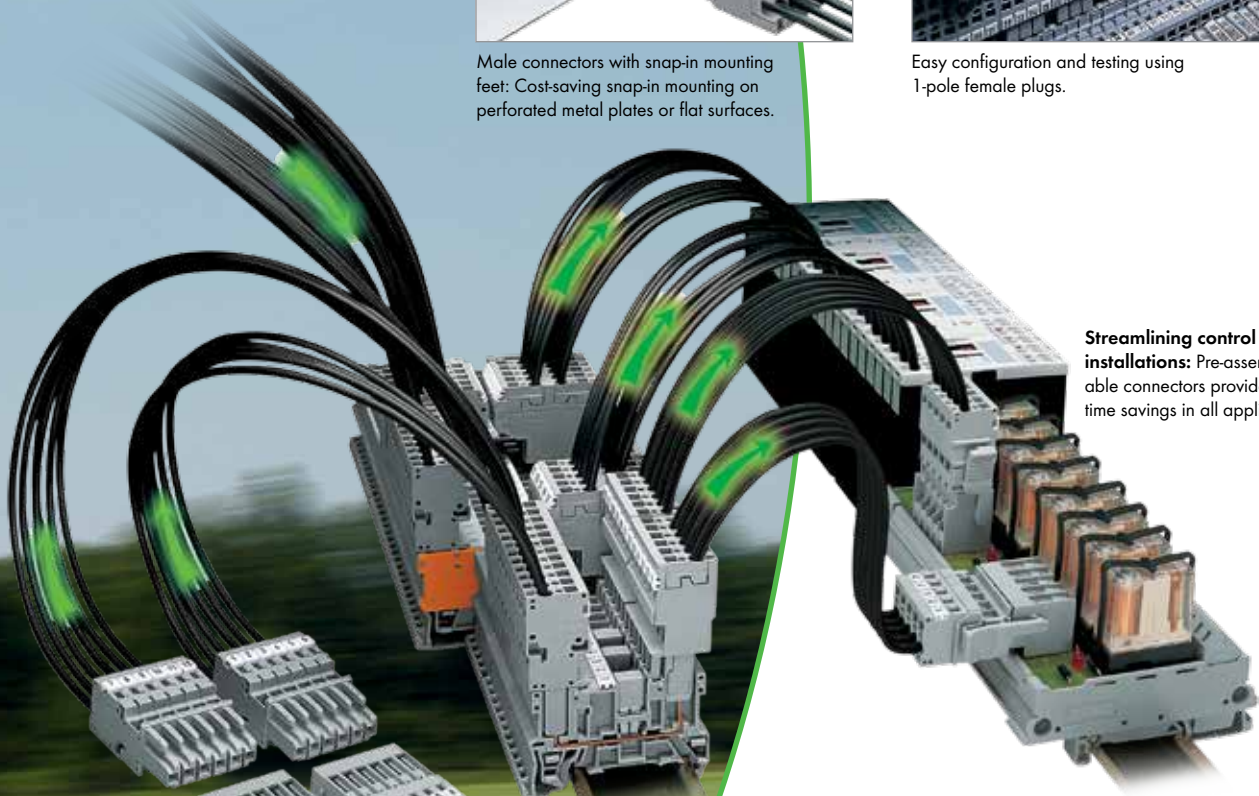


Male connectors with snap-in mounting feet: Cost-saving snap-in mounting on perforated metal plates or flat surfaces.

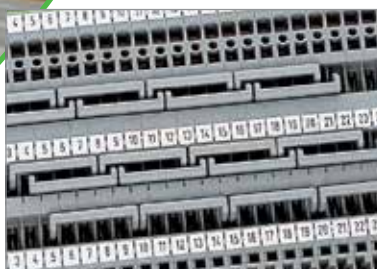


Easy configuration and testing using 1-pole female plugs.

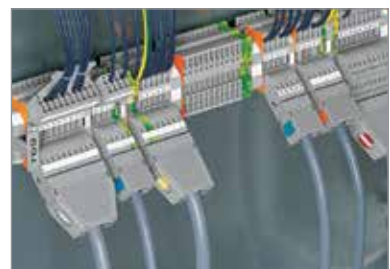
Streamlining control cabinet installations: Pre-assembled pluggable connectors provide cost and time savings in all application areas.



Electronic sub-assemblies can be directly integrated into system wiring.



Pluggable potential distribution for up to 6 potentials.



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

Reasons to Use the WAGO X-COM®-SYSTEM

Assembly



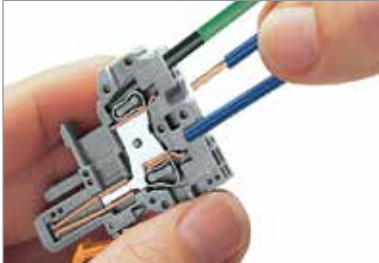
Snap individual carrier terminal blocks onto DIN rail and slide together.

CAGE CLAMP® Connection



Carrier terminal block: Terminating/removing 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 additional locking lever.

Coding



Snap coding pin in proper direction on carrier terminal block. Shown: Removing coding pin from carrier terminal block.

Testing



Testing with 2 mm Ø (red) or 2.3 mm Ø (yellow) test plugs.

Commoning



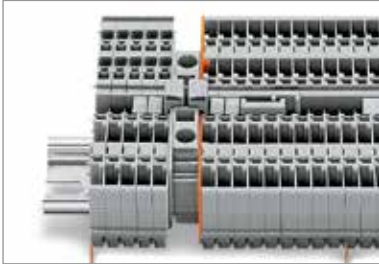
Commoning carrier terminal blocks via adjacent and staggered jumpers, 2-conductor female plug via staggered jumper and 1-conductor female plug via miniature adjacent jumper.

Commoning



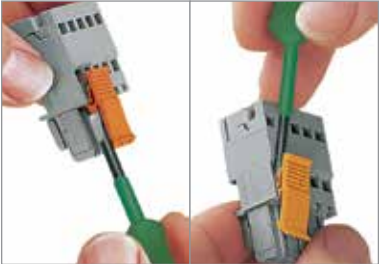
Commoning carrier terminal blocks with push-in type wire jumpers or adjacent jumpers over the intermediate plate.

Commoning



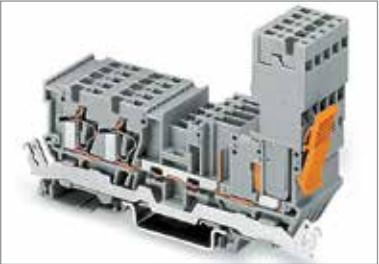
Commoning "power supply terminal blocks" (up to 10 mm²/AWG 8) with carrier terminal blocks via step-down jumpers.

Locking Lever



Locking/releasing lever.

Locking Lever



Female plug secured with locking lever on the terminal block side.

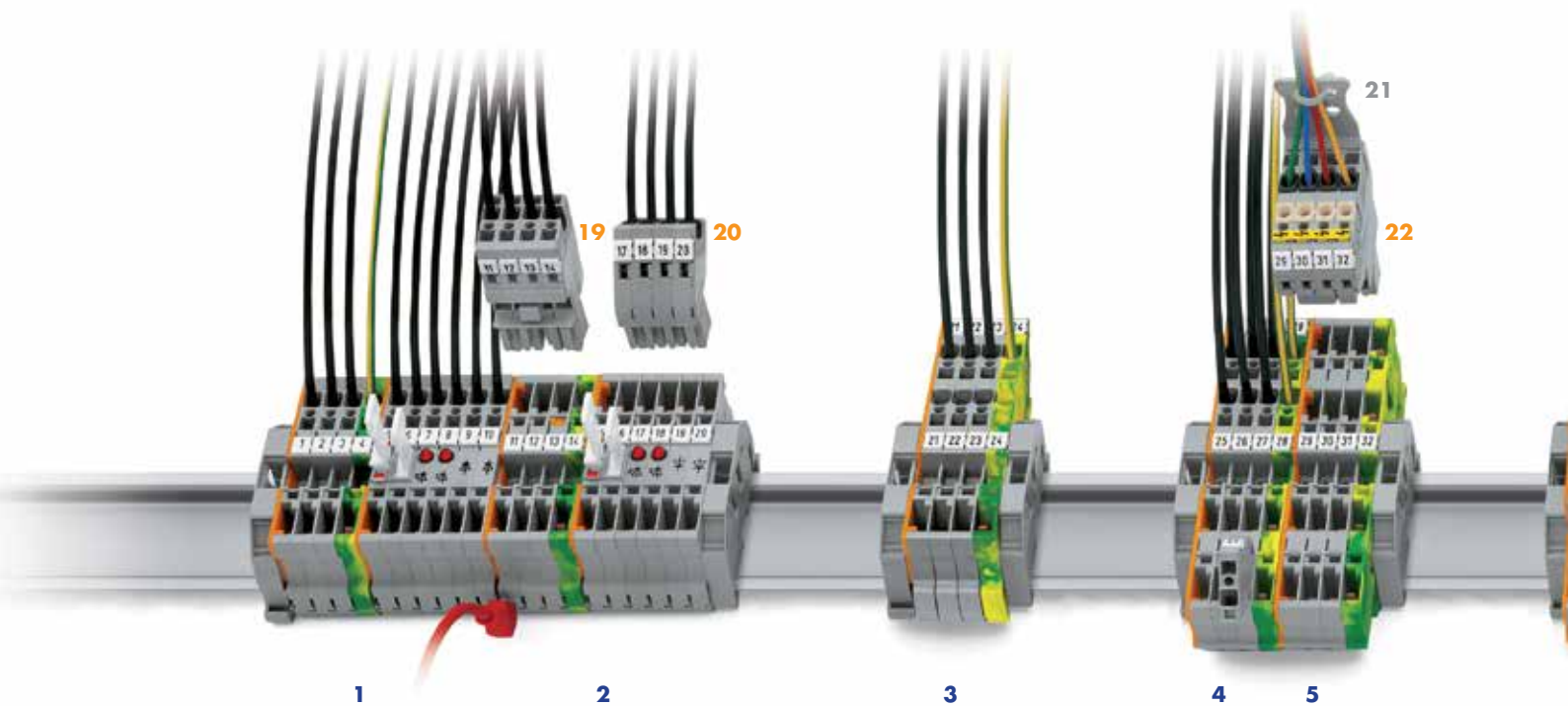
Removal



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

Connectors used according to the regulations shall not be connected or disconnected when live or under load.

The X-COM® Family at a Glance

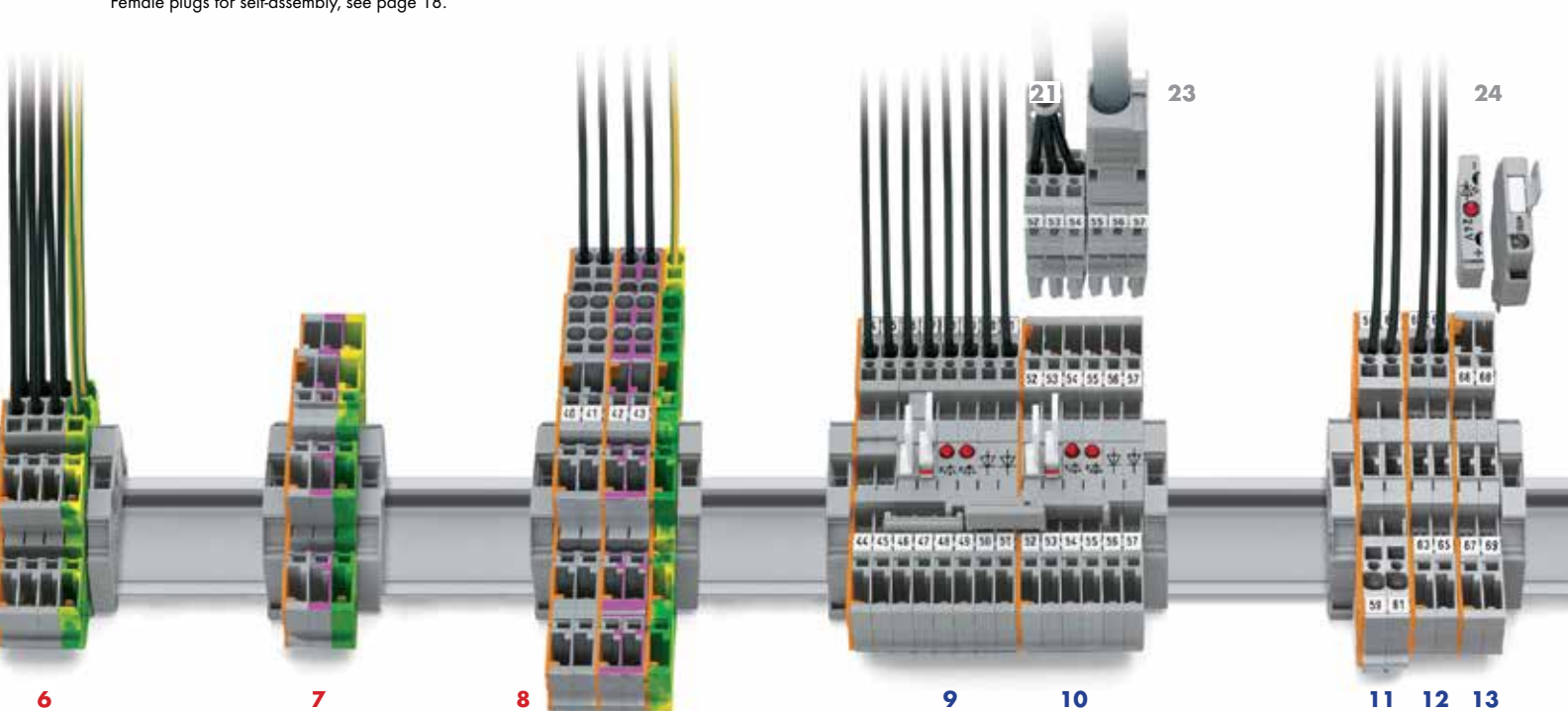


Carrier Terminal Blocks	Color	1-Conductor/1-Pin	2-Pin	2-Conductor/1-Pin	2-Conductor/2-Pin	4-Pin
						
		1	2	3	4	5
	gray	769-176	769-156	769-251	769-171	769-151
	internal commoning					
	blue	769-176/000-006		769-251/000-006	769-171/000-006	
... with shield contact	gray	769-231	769-221		769-211	769-201
Ground carrier terminal block	green yellow	769-237	769-227	769-257	769-217	769-207
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	769-301
	orange	769-308	769-306	769-321	769-304	769-302
Separator plate	orange					

** for 870 Series

Female Plugs, with Coding Fingers	1-Conductor, Straight, Gray**	1-Conductor, Straight, Blue**	1-Conductor, Angled**	2-Conductor, Straight	1-Conductor Female Plug, with Lateral Locking Levers
	19		20	22	
1-pole	769-101	/000-006	/022-000	769-121	
2-pole	769-102	/000-006	/022-000	769-122	769-102/021-000
⋮	⋮	⋮	⋮	⋮	⋮
15-pole	769-115	/000-006	/022-000	769-135	769-115/021-000

Female plugs for self-assembly, see page 18.



1-Conductor/1-Pin	2-Pin	1-Conductor/1-Pin	2-Pin/2-Pin	2-Conductor/2-Pin
Function terminal blocks		Double-deck terminal blocks		
9	10	6	7	8
769-181	769-161	870-101	870-151	870-131
		870-108	870-158	870-138
		870-107	870-157	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			
769-311	769-309	870-118	870-168	870-148
769-312	769-310	870-119	870-169	870-149
769-314	769-313			

System Accessories



21

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



23

2-pole	769-1602
3-pole	769-1603
⋮	⋮
15-pole	769-1615



24

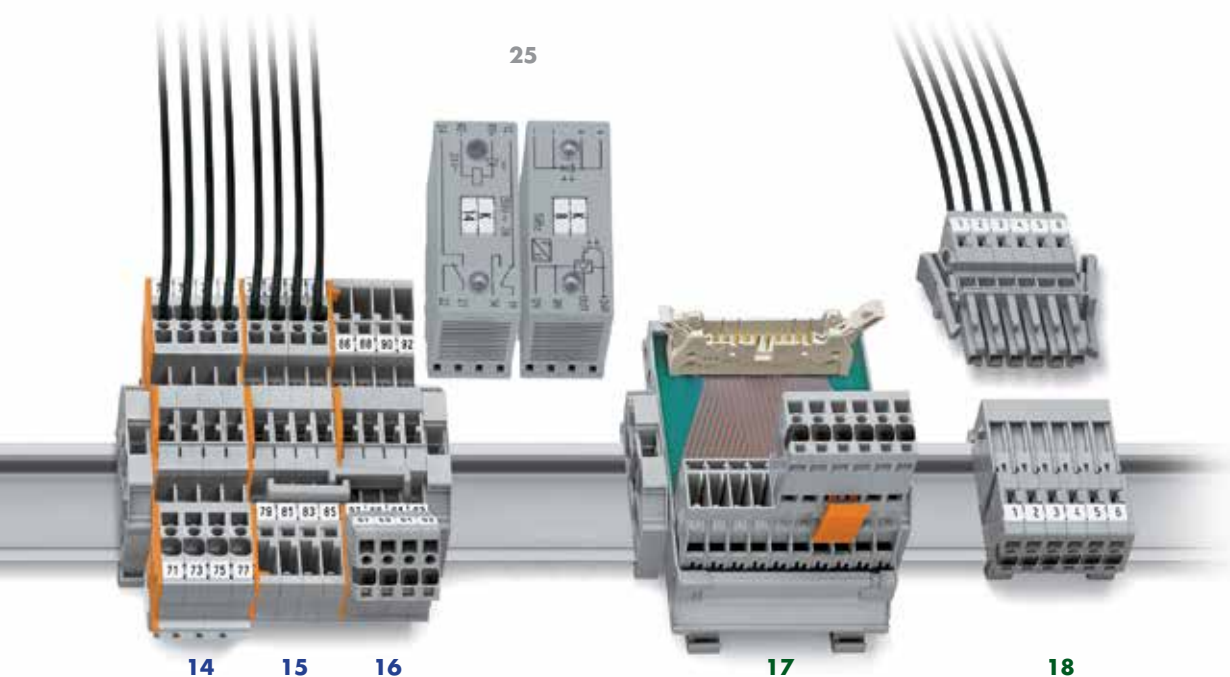
Component plugs,
e.g., fuse, diode, LED,
280 and 281 Series



25

Electronic modules,
e.g., switching relay,
optocoupler, 286
and 786 Series

25



Carrier Terminal Blocks for Pluggable Modules	Color	1-Conductor/1-Pin	1-Conductor/1-Conductor	2-Pin
		12	11	13
	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	15	14	16
4-pole		769-182/769-314	769-192/769-319	769-162/769-313
6-pole		769-183/769-314	769-193/769-319	769-163/769-313
8-pole		769-184/769-314	769-194/769-319	769-164/769-313
10-pole		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
		17		18		
2-pole		769-632	769-662	769-602	769-602/004-000	769-602/006-000
3-pole		769-633	769-663	769-603	769-603/004-000	769-603/006-000
⋮		⋮	⋮	⋮	⋮	⋮
15-pole		769-645	769-675	769-615	769-615/004-000	769-615/006-000



System Accessories

Adjacent jumper				280-402
Alternate jumper, insulated		gray	$I_N = I_N$ terminal block	280-409
Staggered jumper, insulated, 5 mm wide		1 - 2	I_N 24 A	780-452
		1 - 3	I_N 24 A	780-453
		1 - 4	I_N 24 A	780-454
		1 - 5	I_N 24 A	780-455
		1 - 6	I_N 24 A	780-456
		1 - 7	I_N 24 A	780-457
		1 - 8	I_N 24 A	780-458
Push-in type wire jumper, insulated, wire size 0.75 mm ² /AWG 18		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**		1 - 2	I_N 18 A	870-402
		1 - 3	I_N 18 A	870-403
		1 - 4	I_N 18 A	870-404
		1 - 5	I_N 18 A	870-405
		1 - 6	I_N 18 A	870-406
		1 - 7	I_N 18 A	870-407
		1 - 8	I_N 18 A	870-408
		1 - 9	I_N 18 A	870-409
		1 - 10	I_N 18 A	870-410
Push-in type jumper bar, insulated, light gray**		1 - 3	I_N 18 A	870-433
		1 - 4	I_N 18 A	870-434
		1 - 5	I_N 18 A	870-435
		1 - 6	I_N 18 A	870-436
		1 - 7	I_N 18 A	870-437
		1 - 8	I_N 18 A	870-438
		1 - 9	I_N 18 A	870-439
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			2.3 mm Ø	280-404
Operating tool, for female plugs and male connectors with CAGE CLAMP® connection		Pliers		210-490
Note: only applicable for 1-conductor female plugs and male connectors		Operating lever		769-434
Locking lever, 1-pole		gray		769-428
		orange		769-429
Locking lever, from 2-pole		gray		769-430
		orange		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)
		white light gray dark gray	0.08 - 0.2 mm ² 0.25 - 0.5 mm ² 0.75 - 1 mm ²	769-470 769-471 769-472 280-470 (870 Series) 280-471 (870 Series) 280-472 (870 Series)
Insulation stop, 5 pcs/strip				
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 and TOPJOB® S

The **S** Makes the Difference

Thanks to an identical profile, the pluggable X-COM® S and TOPJOB® S rail-mounted 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 the TOPJOB® S rail-mounted terminal block family. Both of these systems can be combined and customized to meet your specific needs.

IRIS Certified

WAGO products for railway applications are developed according to the latest standards and guidelines. We can confirm this through regular certifications by TÜV Süd. With the internationally recognized IRIS certification, WAGO meets the highest quality standards in railway technology.



Technical Data

Connection technology: CAGE CLAMP®

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

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

Compatible with TOPJOB® S rail-mounted terminal block accessories

The WAGO X-COM®S-SYSTEM is available in two different terminal block widths:

- 3.5 mm, for conductors up to 1.5 mm² (AWG 16) and
- 5.2 mm, for conductors up to 4 mm² (AWG 12)

Fire Protection

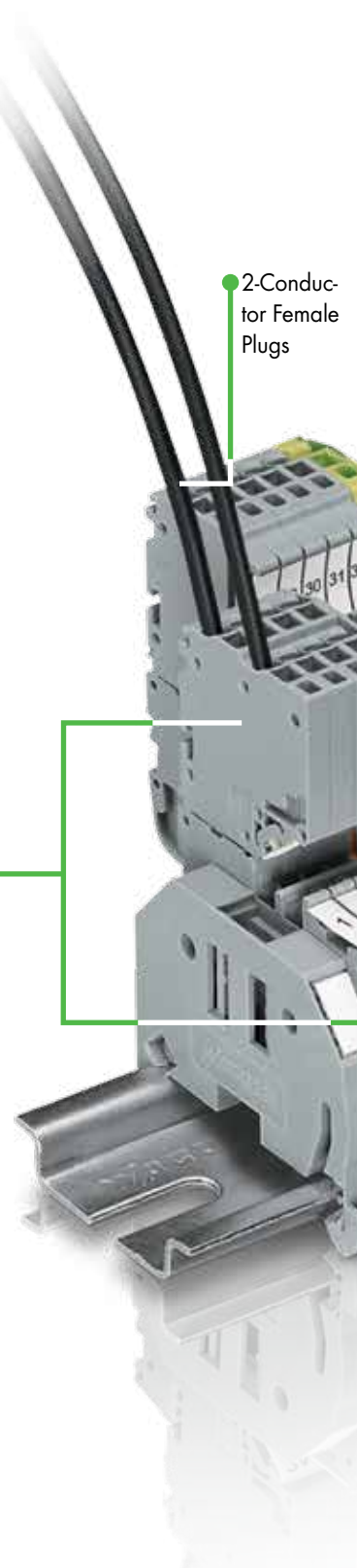
Polyamide PA 6.6 V0 used by WAGO as insulation corresponds with the classifications of the fire protection standards below. These must be met according to railway requirements:

- prEN 45545
- DIN EN 5510-2
- NF F 16-101
- UNICEI 11170-3
- ASTM E 662
- ASTM E 162
- SMP 800-C
- BS 6853

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

Just 3.5 mm wide
for even more
space savings

- **CAGE CLAMP® S connection technology for push-in termination of solid and ferruled conductors.**
Additional benefits:
- **During assembly:**
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.



3.5 mm and wider
500 V/32 A

100 % protected
against mismatching
100 % touch-proof

Each plug can be secured with a **locking lever**.

Versatile, **large-area marking options** for easier identification

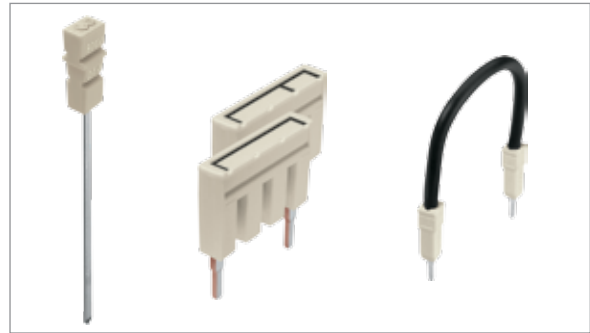
Prevent mismatching by **coding** groups with the same pole numbers.

Orange end plates clearly separate and form groups, while providing touch-proof safety.

TOPJOB® S is Pluggable: with X-COM® S and X-COM®S-MINI

Rail-Mounted Terminal Blocks

Commoning



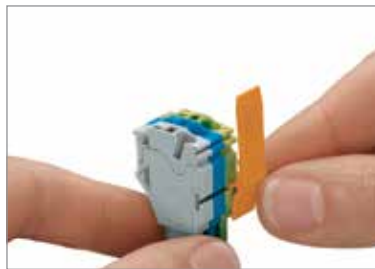
X-COM® S terminal blocks can be commoned via TOPJOB® S terminal block jumpers. An end plate provides connection to TOPJOB® S terminal blocks. WAGO's 2020 and 2022 Series terminal blocks can be combined with each other. Jumper slots are on the same level for both series.

Touch-Proof Safety



Carrier terminal blocks and female plugs are touch-proof.

Locking Lever



Slide locking lever into position.

Locking Lever



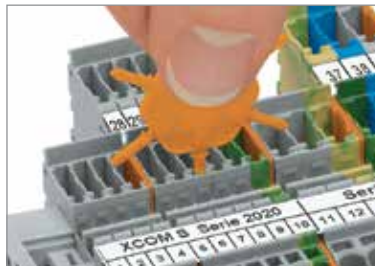
Female plugs can be locked individually.

Coding



Remove coding finger via 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



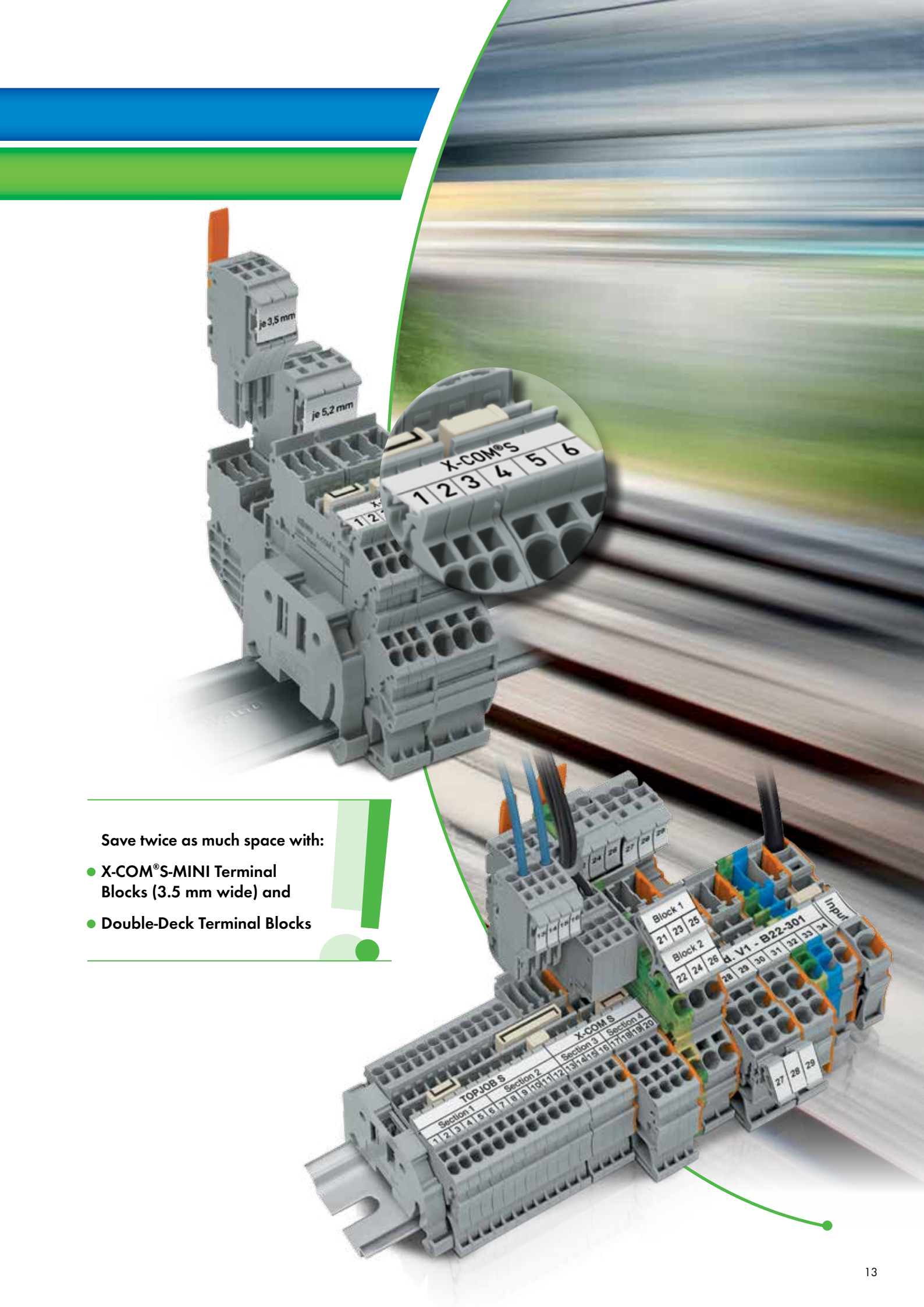
Additional marking option via snap-on type adapter.

Removal



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

Connectors used according to the regulations shall not be connected or disconnected when live or under load.



Save twice as much space with:

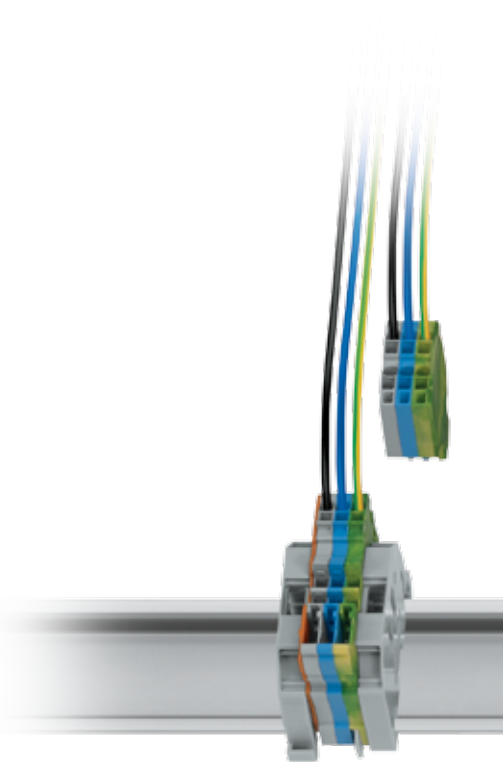
- X-COM®S-MINI Terminal Blocks (3.5 mm wide) and
- Double-Deck Terminal Blocks



The X-COM® S Family at a Glance

2020 Series Female Plugs, with Coding Fingers	Color	1-Conductor
2-pole	gray	2020-102
3-pole		2020-103
⋮		⋮
15-pole		2020-115

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



2020 Series	Color	Carrier Terminal Blocks 1-Conductor/ 1-Pin
-------------	-------	--



	gray	2020-1201
		—
		—
		—
	blue	2020-1204
	green-yellow	2020-1207
End plate	gray	2020-1291
	orange	2020-1292

Additional versions can be found in our Full Line Catalog, Volume 1.

2-Conductor

2020-202

2020-203

⋮

2020-215

**2022 Series Female Plugs,
with Coding Fingers****Color****1-Conductor**

1-pole

gray

2022-101

2-pole

2022-102

⋮

⋮

15-pole

Item numbers for the different versions can be found in our Full Line Catalog, Volume 1.

1-pole

blue

1-pole

green yellow

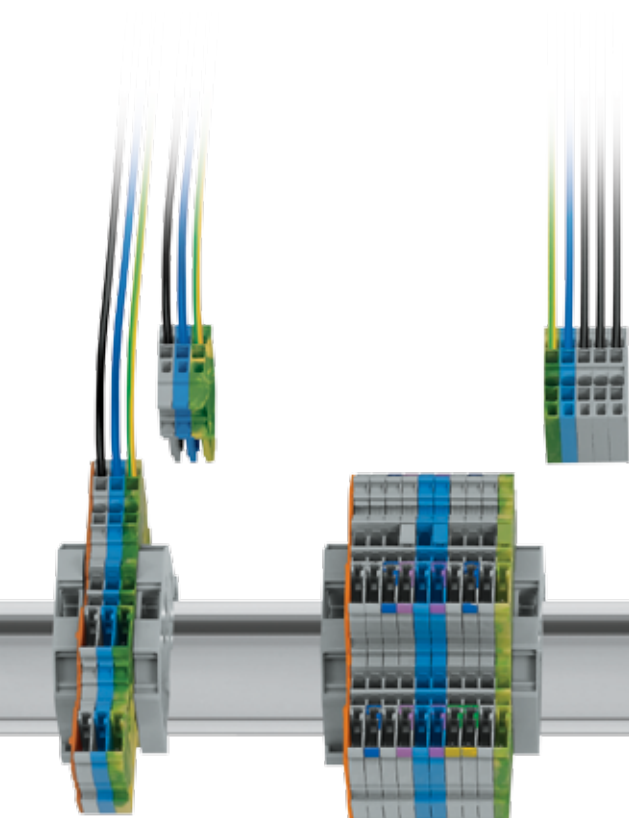
2022-101/000-016

2-pole

green yellow

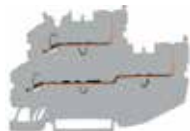
2022-102/000-016

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



**Carrier Terminal Blocks
2-Conductor/2-Pin**

**Double-Deck Carrier Terminal Blocks
1-Conductor/1-Pin
with/without marking carrier**



2020-1401

L/L

2020-2201/2020-2231

—

N/L

2020-2202/2022-2232

—

L/N

2020-2203/2022-2233

—

PE/N

2020-2217/2022-2247

—

PE/L

2020-2227/2022-2257

2020-1404

N

2020-2204/2022-2234

2020-1407

PE

2020-2207/2022-2237

2020-1491

2020-2291

2020-1492

2020-2292

**2022 Series****Color****Carrier Terminal Blocks
1-Conductor/
1-Pin****Carrier Terminal Blocks
2-Conductor/1-Pin**

gray

2022-1201

2022-1301

—

—

—

—

—

—

—

—

blue

2022-1204

2022-1304

green-yellow

2022-1207

2022-1307

End plate

gray

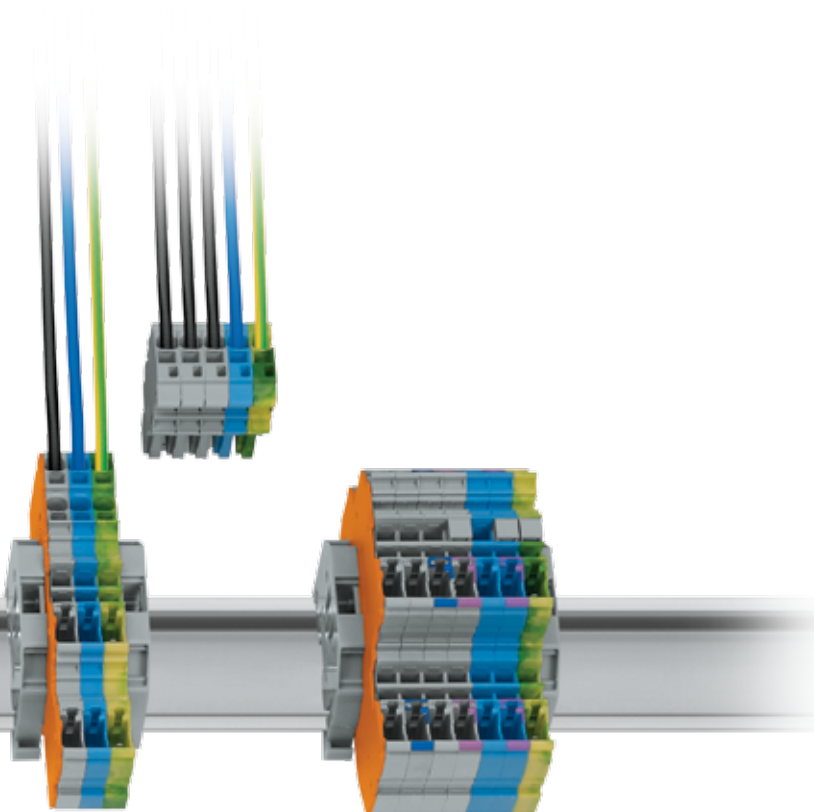
2022-1291

2022-1391

orange

2022-1292

2022-1392



Carrier Terminal Blocks
2-Conductor/2-Pin

Double-Deck Carrier Terminal Blocks
1-Conductor/1-Pin
with/without marking carrier



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
2022-1404	N	2022-2204/2022-2234
2022-1407	PE	2022-2207/2022-2237
2022-1491		2022-2291
2022-1492		2022-2292

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
Push-in type jumper bar, insulated, light gray		9-pole	I _N 14 A	2000-409
		10-pole	I _N 14 A	2000-410
		1 - 3	I _N 14 A	2000-433
		1 - 4	I _N 14 A	2000-434
		1 - 5	I _N 14 A	2000-435
		1 - 6	I _N 14 A	2000-436
		1 - 7	I _N 14 A	2000-437
		1 - 8	I _N 14 A	2000-438
		1 - 9	I _N 14 A	2000-439
		1 - 10	I _N 14 A	2000-440
Carrier with 6 coding pins, for coding female plugs		orange		2020-100
WMB Multi marking system, 10 strips with 10 markers per card		plain	for 3.5 mm terminal block width	793-3501
Double-deck marker carrier, pivoting		gray		2000-121
Protective warning marker, with high-voltage symbol, for 5 terminal blocks		yellow		2002-115
Test pin			1 mm Ø	859-500

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 - 3	I _N 25 A	2002-433
		1 - 4	I _N 25 A	2002-434
		1 - 5	I _N 25 A	2002-435
		1 - 6	I _N 25 A	2002-436
		1 - 7	I _N 25 A	2002-437
		1 - 8	I _N 25 A	2002-438
		1 - 9	I _N 25 A	2002-439
		1 - 10	I _N 25 A	2002-440
Double-deck vertical jumper, insulated, light gray			I _N 24 A	2002-492
Carrier with 6 coding pins, for coding female plugs		orange		2022-100
WMB Multi marking system, 10 strips with 10 markers per card		plain	stretchable, 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, 1,500 WMB markers (5 mm) on roll		plain	stretchable, 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	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 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
		Blade (3.5 x 0.5) mm, short		210-657
		Type 2, blade (3.5 x 0.5) mm, short, angled		210-658
		Type 1, blade (2.5 x 0.4) mm, short		210-647
		Type 1, blade (2.5 x 0.4) mm, short, angled		210-648

Female Plugs for Self-

X-COM®

Customizing Modular Female Plugs

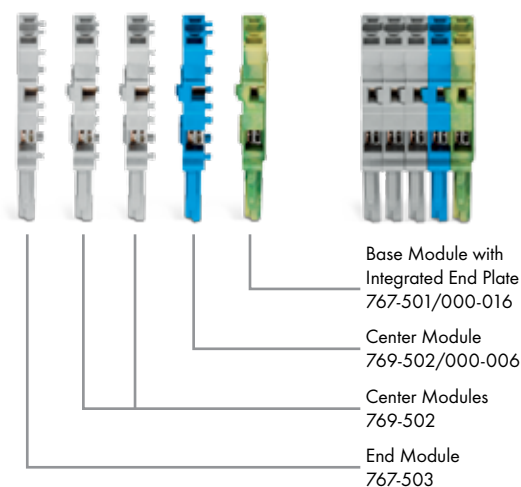
WAGO's modular female plugs can be customized for (e.g., when designing prototypes).

Modules and Pole Numbers

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

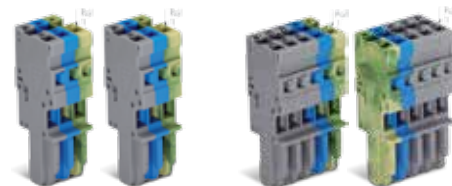
- A base module with integrated end plate
- Up to 13 center modules (corresponding to a 15-pole female plug = maximum pole number)
- An end module

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



Pre-Assembled Female Plugs:

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



	3-pole	5-pole
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 and Maximum Flexibility

X-COM® S, X-COM®S-MINI

applications requiring varying numbers of poles

Modules and Pole Numbers

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

- A base module with integrated end plate
- Up to 13 center modules
- An end module

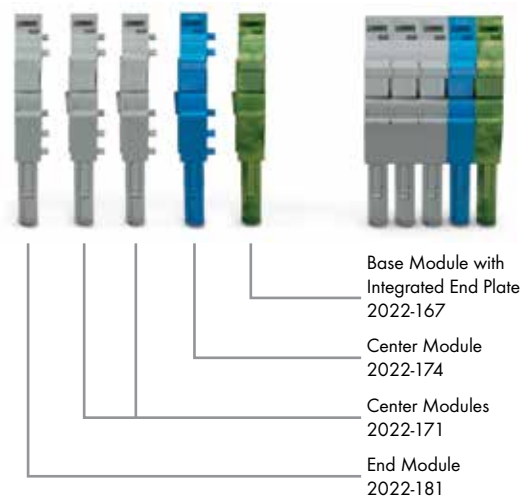
A self-assembled X-COM®S-MINI Female Plug consists of:

- A base module with end plate
- Max. 14 end modules

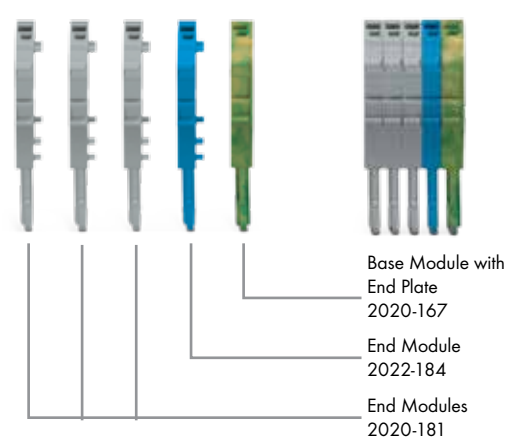
X-COM® S 2022 Series	1-Conductor End Module	1-Conductor Center Module	1-Conductor Base Module
gray	2022-181	2022-171	2022-161
blue	2022-184	2022-174	2022-164
green yellow	2022-187	2022-177	2022-167

X-COM®S-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

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



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



Pre-Assembled Female Plugs:

	X-COM® S, 2022 Series, 1-Conductor Female Plugs		X-COM®S-MINI, 2020 Series, 1-Conductor Female Plugs		2-Conductor Female Plugs	
	3-pole	5-pole	3-pole	5-pole	3-pole	5-pole
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

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.



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