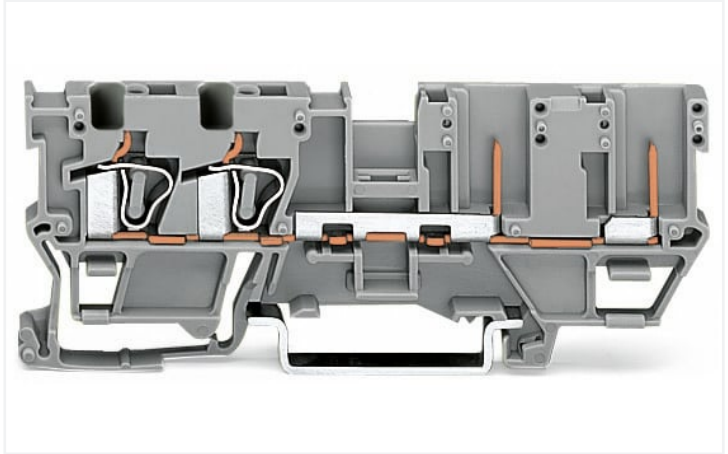
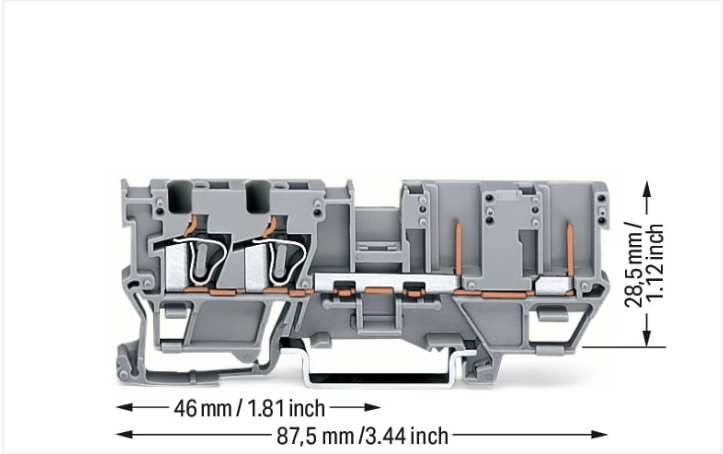




Color: ■ gray

| Notes              |                                                                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information | A separator plate (item no. 209-191) or a 10 mm end stop (item no. 249-117) must be placed at the end of a WAGO X-COM®-SYSTEM terminal strip. |
| Note               | 1-conductor angled female plugs cannot be used.                                                                                               |

| Electrical data                                              |  |                  |     |    |
|--------------------------------------------------------------|--|------------------|-----|----|
| Ratings per                                                  |  | IEC/EN 60947-7-1 |     |    |
| Overvoltage category                                         |  | III              | III | II |
| Pollution degree                                             |  | 3                | 2   | 2  |
| Nominal voltage                                              |  | 500 V            | -   | -  |
| Rated surge voltage                                          |  | 6 kV             | -   | -  |
| Rated current                                                |  | 32 A             | -   | -  |
| Power Loss                                                   |  |                  |     |    |
| Power loss, per pole (potential)                             |  | 1.024 W          |     |    |
| Rated current I <sub>N</sub> for specified power loss        |  | 32 A             |     |    |
| Resistance value for specified, current-dependent power loss |  | 0.001 Ω          |     |    |

| Connection data                 |                                            |
|---------------------------------|--------------------------------------------|
| Clamping units                  | 2                                          |
| Total number of potentials      | 1                                          |
| Number of levels                | 1                                          |
| Connection 1                    |                                            |
| Connection technology           | CAGE CLAMP®                                |
| Number of connection points     | 2                                          |
| Actuation type                  | Operating tool                             |
| Connectable conductor materials | Copper                                     |
| Nominal cross-section           | 4 mm <sup>2</sup> / 12 AWG                 |
| Solid conductor                 | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor         | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Strip length                    | 8 ... 9 mm / 0.31 ... 0.35 inches          |
| Wiring direction                | Front-entry wiring                         |

| Connection 2                  |   |
|-------------------------------|---|
| Number of connection points 2 | 1 |



| Physical data                     |                        |
|-----------------------------------|------------------------|
| Width                             | 5 mm / 0.197 inches    |
| Height                            | 87.5 mm / 3.445 inches |
| Depth from upper-edge of DIN-rail | 28.5 mm / 1.122 inches |

| Mechanical data |                 |
|-----------------|-----------------|
| Design          | horizontal type |
| Mounting type   | DIN-35 rail     |
| Marking level   | Center marking  |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | gray                                                                     |
| Material group                     | I                                                                        |
| Insulation material (main housing) | Polyamide (PA66)                                                         |
| Flammability class per UL94        | V0                                                                       |
| Fire load                          | 0.169 MJ                                                                 |
| Weight                             | 9.7 g                                                                    |

| Environmental requirements       |                 |
|----------------------------------|-----------------|
| Processing temperature           | -35 ... +85 °C  |
| Continuous operating temperature | -60 ... +105 °C |

| Commercial data       |                   |
|-----------------------|-------------------|
| Product Group         | 18 (X-COM-System) |
| eCl@ss 10.0           | 27-14-11-20       |
| eCl@ss 9.0            | 27-14-11-20       |
| ETIM 8.0              | EC000897          |
| ETIM 7.0              | EC000897          |
| PU (SPU)              | 50 pcs            |
| Packaging type        | Box               |
| Country of origin     | CN                |
| GTIN                  | 4045454871673     |
| Customs tariff number | 85366990990       |

| Environmental Product Compliance |                         |
|----------------------------------|-------------------------|
| RoHS Compliance Status           | Compliant, No Exemption |

| Approvals / Certificates                |          |                  |
|-----------------------------------------|----------|------------------|
| General approvals                       |          |                  |
|                                         |          |                  |
| Approval                                | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.         | EN 60947 | NTR NL-7626      |
| CSA<br>CSA Group                        | C22.2    | 1101144          |
| KEMA/KEUR<br>DEKRA Certification B.V.   | EN 60947 | 2190419.01       |
| General approvals                       |          |                  |
| UL<br>Underwriters Laboratories<br>Inc. | UL 1977  | E 45171          |
| UL<br>Underwriters Laboratories<br>Inc. | UL 1059  | E45172           |



Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Approvals for marine applications

|  |  |  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Approval                                                                          | Standard                                                                           | Certificate Name                                                                    |
| ABS<br>American Bureau of Ship-<br>ping                                           | EN 60947                                                                           | 20-HG1941090-PDA                                                                    |
| BV<br>Bureau Veritas S.A.                                                         | EN 60947                                                                           | 07436/F0 BV                                                                         |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd                             | -                                                                                  | TAE00001V2                                                                          |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 769-171 |

Documentation

| Additional Information |
|------------------------|
| Technical Section      |

pdf  
2246.92 KB



| Bid Text |            |                 |                                                                                                       |
|----------|------------|-----------------|-------------------------------------------------------------------------------------------------------|
| 769-171  | 19.02.2019 | xml<br>3.26 KB  | <a href="#"></a> |
| 769-171  | 02.10.2017 | doc<br>25.00 KB | <a href="#"></a> |

CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 769-171 |



| CAE data                     |
|------------------------------|
| EPLAN Data Portal<br>769-171 |
| WSCAD Universe<br>769-171    |
| ZUKEN Portal 769-171         |



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



|                                                                                                                                                                                                                   |                                                                                                                                                                                                                   |                                                                                                                                                                                                                   |                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 769-110/145-000</a><br>1-conductor female connector; CAGE<br>CLAMP®; 4 mm²; Pin spacing 5 mm; 10-<br>pole; coding finger; Centered locking le-<br>vers; Strain relief plate; 4,00 mm²; gray | <a href="#">Item No.: 769-111/145-000</a><br>1-conductor female connector; CAGE<br>CLAMP®; 4 mm²; Pin spacing 5 mm; 11-<br>pole; coding finger; Centered locking le-<br>vers; Strain relief plate; 4,00 mm²; gray | <a href="#">Item No.: 769-112/145-000</a><br>1-conductor female connector; CAGE<br>CLAMP®; 4 mm²; Pin spacing 5 mm; 12-<br>pole; coding finger; Centered locking le-<br>vers; Strain relief plate; 4,00 mm²; gray | <a href="#">Item No.: 769-113/145-000</a><br>1-conductor female connector; CAGE<br>CLAMP®; 4 mm²; Pin spacing 5 mm; 13-<br>pole; coding finger; Centered locking le-<br>vers; Strain relief plate; 4,00 mm²; gray |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



1.1.1 Female connector/socket



**Item No.: 769-114/145-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 14-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-115/145-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 15-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-101**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray



**Item No.: 769-101/141-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-102/142-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 2-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-103/142-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 3-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-104/143-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 4-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-105/143-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 5-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-106/144-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 6-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-107/144-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 7-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-108/144-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 8-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-109/144-000**  
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



**Item No.: 769-121**  
2-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray

1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate



**Item No.: 769-303**  
End and intermediate plate; 1.1 mm thick; gray



**Item No.: 769-304**  
End and intermediate plate; 1.1 mm thick; orange

1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding



**Item No.: 769-435**  
Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange



1.3.2 Cover

1.3.2.1 Cover



**Item No.: 769-438**  
Pin cover; with marker slot for miniature WSB; gray



**Item No.: 769-439**  
Pin cover; with marker slot for miniature WSB; orange

1.3.3 DIN-rail

1.3.3.1 Mounting accessories



**Item No.: 210-196**  
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored



**Item No.: 210-198**  
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; copper-colored



**Item No.: 210-508**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-197**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; similar to EN 60715; silver-colored



**Item No.: 210-506**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-114**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored



**Item No.: 210-118**  
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored



**Item No.: 210-115**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 18 mm; silver-colored



**Item No.: 210-112**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 25 mm; silver-colored



**Item No.: 210-504**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; galvanized; according to EN 60715; silver-colored



**Item No.: 210-113**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored



**Item No.: 210-505**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; galvanized; according to EN 60715; silver-colored

1.3.4 Ferrule

1.3.4.1 Ferrule



**Item No.: 216-301**  
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-302**  
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-201**  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



**Item No.: 216-101**  
Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-202**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-102**  
Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-203**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**  
Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated



**Item No.: 216-204**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



**Item No.: 216-104**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-206**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue



1.3.5 Installation

1.3.5.1 Mounting accessories



**Item No.: 209-106**  
Mounting carrier; for isolated mounting on DIN 35 rails; gray



**Item No.: 249-116**  
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.3.6 Insulation stop

1.3.6.1 Insulation stop



**Item No.: 769-470**  
Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white



**Item No.: 769-471**  
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray



**Item No.: 769-472**  
Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

1.3.7 Jumper

1.3.7.1 Jumper



**Item No.: 280-402**  
Jumper; insulated; gray



**Item No.: 280-409**  
Jumper; insulated; gray



**Item No.: 780-452**  
Staggered jumper; from 1 to 2; insulated; gray



**Item No.: 780-453**  
Staggered jumper; from 1 to 3; insulated; gray



**Item No.: 780-454**  
Staggered jumper; from 1 to 4; insulated; gray



**Item No.: 780-455**  
Staggered jumper; from 1 to 5; insulated; gray



**Item No.: 780-456**  
Staggered jumper; from 1 to 6; insulated; gray



**Item No.: 780-457**  
Staggered jumper; from 1 to 7; insulated; gray



**Item No.: 780-458**  
Staggered jumper; from 1 to 8; insulated; gray

1.3.8 Marking

1.3.8.1 Marker



**Item No.: 2009-145**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 248-501**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

1.3.9 Protective warning marker

1.3.9.1 Cover



**Item No.: 280-415**  
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.3.10 Push-in type wire jumper

1.3.10.1 Jumper



**Item No.: 249-126**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; black



**Item No.: 249-123**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 180 mm long; black



**Item No.: 249-127**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; black



**Item No.: 249-125**  
Push-in type wire jumper; insulated; 60 mm long; black

1.3.11 Test and measurement

1.3.11.1 Testing accessories



**Item No.: 280-419**  
Spacer module; modular; bridging commoned terminal blocks; gray



**Item No.: 280-404**  
Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm<sup>2</sup> - 4 mm<sup>2</sup> tbs; gray



**Item No.: 280-418**  
Test plug module; modular; suitable for all WAGO 280 and 780 Series rail-mounted terminal blocks with jumper slots in the current bar; gray



**Item No.: 210-136**  
Test plug; 2 mm Ø; with 500 mm cable; red

1.3.12 Tool

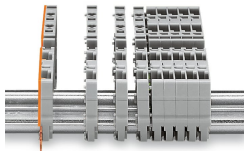
1.3.12.1 Operating tool



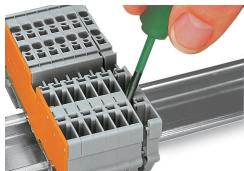
**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation

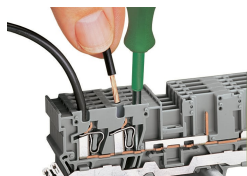


Snap individual carrier terminal blocks on to the DIN-rail and slide together.



Open the assembly by laterally sliding a block via operating tool and remove terminal block via release lever.

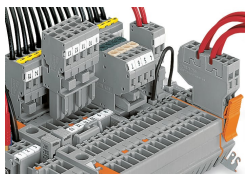
## Conductor termination



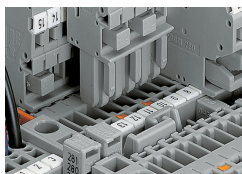
### CAGE CLAMP® connection

Carrier terminal block: Insert/remove conductor via operating tool (3.5 x 0.5 mm blade).

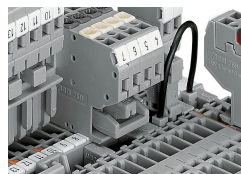
## Commoning



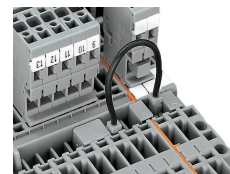
Commoning with adjacent or staggered jumpers.  
Push jumpers down until fully inserted.



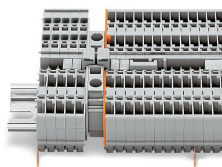
Commoning carrier terminal blocks via staggered jumpers.



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

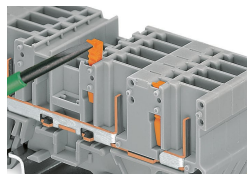


Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.



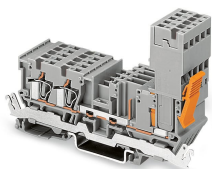
Commoning "supply terminal blocks" (up to 10 mm²/8 AWG) with carrier terminal blocks via step-down jumpers.

## Coding



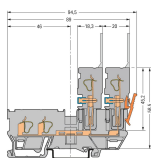
Snap coding pin in proper direction on carrier terminal block.  
Shown: Coding pin removal from carrier terminal block.

## Locking system

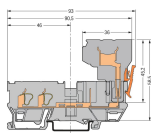


Securing a female plug via locking lever on the terminal block side.

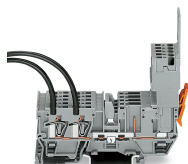




Carrier terminal block

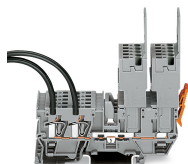


Carrier terminal block



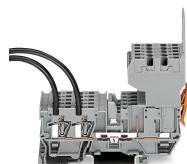
1-conductor female plug

Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



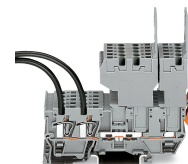
2 x 1-conductor female plugs

Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



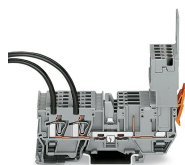
2-conductor female connector

Carrier terminal blocks can be commo-  
ned via 280 and 780 Series Jumpers and  
tested using a test plug adapter (280-4..).



1-conductor female plug and 2-conductor female plug

Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.



2-conductor/2-pin carrier terminal block  
(769-171)

Conductor cross-section: 4 mm<sup>2</sup> (12 AWG)

1-conductor female plugs (769-102 to 769-115)

Conductor cross-section: 4 mm<sup>2</sup> (12 AWG)  
Conductor loop length: 1 m