

PP-H 2,5/ 3 - Plug



3209882

<https://www.phoenixcontact.com/us/products/3209882>

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Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 3, number of positions: 3, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: gray

Your advantages

- Large-surface labeling option
- The Push-in technology COMBI plugs for self-assembly provide solutions that users can implement themselves
- Tested for railway applications

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 3209882 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE22 |
| Product key | BE2244 |
| Catalog page | Page 298 (C-1-2019) |
| GTIN | 4046356366779 |
| Weight per piece (including packing) | 10.427 g |
| Weight per piece (excluding packing) | 10.336 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

PP-H 2,5/ 3 - Plug



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Technical data

Product properties

| | |
|-----------------------|-------------------|
| Product type | Terminal plug |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Number of positions | 3 |
| Pitch | 5.2 mm |
| Number of connections | 3 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 0.77 W |

Connection data

| | |
|---------------------------------|---------------------|
| Number of connections per level | 3 |
| Nominal cross section | 2.5 mm ² |

1 level

| | |
|---|---|
| Stripping length | 8 mm ... 10 mm |
| Internal cylindrical gage | A3 |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross section rigid | 0.14 mm ² ... 4 mm ² |
| Cross section AWG | 26 ... 12 (converted acc. to IEC) |
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section, flexible [AWG] | 26 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm ² ... 2.5 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.14 mm ² ... 2.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² |
| Nominal current | 24 A |
| Maximum load current | 24 A (with 4 mm ² conductor cross section) |
| Nominal voltage | 500 V |
| Nominal cross section | 2.5 mm ² |

1 level Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross section rigid | 0.34 mm ² ... 4 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm ² ... 2.5 mm ² |

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| | |
|--|--|
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.34 mm ² ... 2.5 mm ² |
|--|--|

Dimensions

| | |
|--------|---------|
| Width | 15.6 mm |
| Height | 15.8 mm |
| Depth | 40.2 mm |
| Pitch | 5.2 mm |

Material specifications

| | |
|---|-------------|
| Color | gray |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |

Mechanical properties

| | |
|-----------------|----|
| Mechanical data | |
| Open side panel | No |

Environmental and real-life conditions

| | |
|--|--|
| Ambient conditions | |
| Ambient temperature (operation) | -60 °C (max. operating temperature see derating curve) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

Standards and regulations

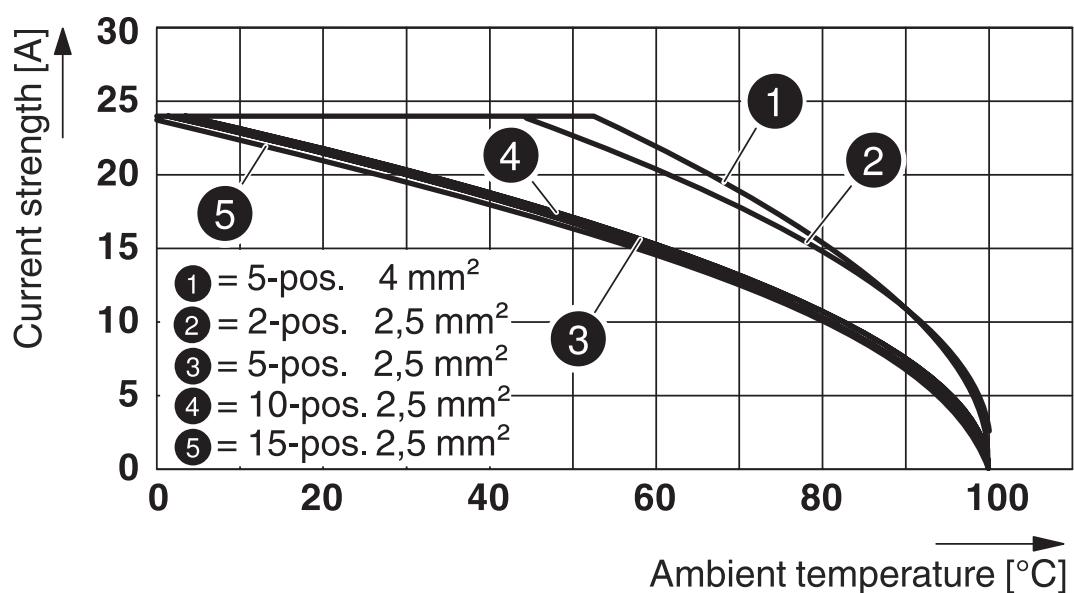
| | |
|----------------------------------|-----------|
| Connection in acc. with standard | IEC 61984 |
|----------------------------------|-----------|

Drawings

Circuit diagram



Diagram



PP-H 2,5/ 3 - Plug



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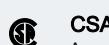
<https://www.phoenixcontact.com/us/products/3209882>

Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3209882>

DNV

Approval ID: TAE00003JE



CSA

Approval ID: 2030668

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|----------------------|
|--|-----------------------|-----------------------|-------------------|----------------------|

Use group B

| | | | |
|-------|------|---------|---|
| 300 V | 20 A | 26 - 12 | - |
|-------|------|---------|---|

Use group C

| | | | |
|-------|------|---------|---|
| 300 V | 20 A | 26 - 12 | - |
|-------|------|---------|---|



EAC

Approval ID: RU C-DE.BL08.B.00511



cULus Recognized

Approval ID: E60425



LR

Approval ID: LR2371832TA



NK

Approval ID: 14ME0912



BV

Approval ID: 25278/C1 BV

ABS

Approval ID: 21-2192245-PDA



LR

Approval ID: 14/20056



cULus Recognized

Approval ID: E60425

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141151 |
| ECLASS-12.0 | 27141151 |
| ECLASS-13.0 | 27250306 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002021 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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Accessories

PZ/2 - Strain relief

3040627

<https://www.phoenixcontact.com/us/products/3040627>



Strain relief, width: 9.3 mm, height: 48.7 mm, number of positions: 2, color: black

PZ/4 - Strain relief

3040643

<https://www.phoenixcontact.com/us/products/3040643>



Strain relief, width: 19.6 mm, height: 48.7 mm, number of positions: 4, color: black

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PR - Latching

3040559

<https://www.phoenixcontact.com/us/products/3040559>

Latching, width: 4.4 mm, height: 29.8 mm, number of positions: 1, color: orange



PR/2 - Latching

3040630

<https://www.phoenixcontact.com/us/products/3040630>

Latching, width: 10 mm, height: 29.8 mm, number of positions: 2, color: orange



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PRT/2 - Latching

3040631

<https://www.phoenixcontact.com/us/products/3040631>



Latching, can only be released using a screwdriver, width: 9 mm, height: 23.2 mm, number of positions: 2, color: orange

PRZ - Latching

3040614

<https://www.phoenixcontact.com/us/products/3040614>



Latching, number of positions: 2, length: 64 mm, color: orange

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PSH 3- 6 - Shield connection clamp

3040591

<https://www.phoenixcontact.com/us/products/3040591>

Shield connection clamp, nom. voltage: 300 V, color: black



PSH 5-10 - Shield connection clamp

3040601

<https://www.phoenixcontact.com/us/products/3040601>

Shield connection clamp, nom. voltage: 300 V, color: black



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DF-SP-H 2,5 - Flange cover

3209824

<https://www.phoenixcontact.com/us/products/3209824>

Flange cover, connection method: Screw connection, depth: 24.7 mm, width: 4.5 mm, height: 35.8 mm, color: gray



PH 2,5/ 2 - Cable housing

3209691

<https://www.phoenixcontact.com/us/products/3209691>

Cable housing, pitch: 10.4 mm, depth: 36.8 mm, width: 10.4 mm, height: 19.9 mm, number of positions: 2, color: gray



PP-H 2,5/ 3 - Plug



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<https://www.phoenixcontact.com/us/products/3209882>

PH 2,5/ 3 - Cable housing

3209701

<https://www.phoenixcontact.com/us/products/3209701>

Cable housing, pitch: 15.6 mm, depth: 36.8 mm, width: 15.6 mm, height: 19.9 mm, number of positions: 3, color: gray



PH 2,5/ 4 - Cable housing

3209714

<https://www.phoenixcontact.com/us/products/3209714>

Cable housing, pitch: 20.8 mm, depth: 36.8 mm, width: 20.8 mm, height: 19.9 mm, number of positions: 4, color: gray



PP-H 2,5/ 3 - Plug

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PH 2,5/ 5 - Cable housing

3209727

<https://www.phoenixcontact.com/us/products/3209727>

Cable housing, pitch: 26 mm, depth: 36.8 mm, width: 26 mm, height: 19.9 mm,
number of positions: 5, color: gray



PH 2,5/ 6 - Cable housing

3209730

<https://www.phoenixcontact.com/us/products/3209730>

Cable housing, pitch: 31.2 mm, depth: 36.8 mm, width: 31.2 mm, height: 19.9
mm, number of positions: 6, color: gray



PP-H 2,5/ 3 - Plug

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PH 2,5/ 7 - Cable housing

3209743

<https://www.phoenixcontact.com/us/products/3209743>

Cable housing, pitch: 36.4 mm, depth: 36.8 mm, width: 36.4 mm, height: 19.9 mm, number of positions: 7, color: gray



PH 2,5/ 8 - Cable housing

3209756

<https://www.phoenixcontact.com/us/products/3209756>

Cable housing, pitch: 41.6 mm, depth: 36.8 mm, width: 41.6 mm, height: 19.9 mm, number of positions: 8, color: gray



PP-H 2,5/ 3 - Plug

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PH 2,5/ 9 - Cable housing

3209507

<https://www.phoenixcontact.com/us/products/3209507>

Cable housing, pitch: 46.8 mm, depth: 36.8 mm, width: 46.8 mm, height: 19.9 mm, number of positions: 9, color: gray



PH 2,5/10 - Cable housing

3209769

<https://www.phoenixcontact.com/us/products/3209769>

Cable housing, pitch: 52 mm, depth: 36.8 mm, width: 52 mm, height: 19.9 mm, number of positions: 10, color: gray



PP-H 2,5/ 3 - Plug



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PH 2,5/11 - Cable housing

3209772

<https://www.phoenixcontact.com/us/products/3209772>

Cable housing, pitch: 57.2 mm, depth: 36.8 mm, width: 57.2 mm, height: 19.9 mm, number of positions: 11, color: gray



PH 2,5/12 - Cable housing

3209785

<https://www.phoenixcontact.com/us/products/3209785>

Cable housing, pitch: 62.4 mm, depth: 36.8 mm, width: 62.4 mm, height: 19.9 mm, number of positions: 12, color: gray



PP-H 2,5/ 3 - Plug



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PH 2,5/13 - Cable housing

3209798

<https://www.phoenixcontact.com/us/products/3209798>

Cable housing, pitch: 67.6 mm, depth: 36.8 mm, width: 67.6 mm, height: 19.9 mm, number of positions: 13, color: gray



PH 2,5/14 - Cable housing

3209808

<https://www.phoenixcontact.com/us/products/3209808>

Cable housing, pitch: 72.8 mm, depth: 36.8 mm, width: 72.8 mm, height: 19.9 mm, number of positions: 14, color: gray



PP-H 2,5/ 3 - Plug



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PH 2,5/15 - Cable housing

3209811

<https://www.phoenixcontact.com/us/products/3209811>

Cable housing, pitch: 78 mm, depth: 36.8 mm, width: 78 mm, height: 19.9 mm,
number of positions: 15, color: gray



MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>

Test plug, with solder connection up to 1 mm² conductor cross section, number
of positions: 1, color: gray



PP-H 2,5/ 3 - Plug

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<https://www.phoenixcontact.com/us/products/3209882>



MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red



PP-H 2,5/ 3 - Plug

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MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



PP-H 2,5/ 3 - Plug

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<https://www.phoenixcontact.com/us/products/3209882>



MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



PP-H 2,5/ 3 - Plug



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<https://www.phoenixcontact.com/us/products/3209882>

MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



ISH 2,5/0,2 - Insulating sleeve

3002843

<https://www.phoenixcontact.com/us/products/3002843>

Insulating sleeve, color: white



PP-H 2,5/ 3 - Plug



3209882

<https://www.phoenixcontact.com/us/products/3209882>

ISH 2,5/0,5 - Insulating sleeve

3002856

<https://www.phoenixcontact.com/us/products/3002856>

Insulating sleeve, color: gray



ISH 2,5/1,0 - Insulating sleeve

3002869

<https://www.phoenixcontact.com/us/products/3002869>

Insulating sleeve, color: black



PP-H 2,5/ 3 - Plug



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ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

<https://www.phoenixcontact.com/us/products/0808642>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

ZBF 5 CUS - Zack Marker strip, flat

0825025

<https://www.phoenixcontact.com/us/products/0825025>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

PP-H 2,5/ 3 - Plug



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<https://www.phoenixcontact.com/us/products/3209882>

ZBF 5,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

0808671

<https://www.phoenixcontact.com/us/products/0808671>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

ZBF 5,QR:FORTL.ZAHLEN - Zack Marker strip, flat

0808697

<https://www.phoenixcontact.com/us/products/0808697>



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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ZBF 5,LGS:GERADE ZAHLEN - Zack Marker strip, flat

0810821

<https://www.phoenixcontact.com/us/products/0810821>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive even numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

ZBF 5,LGS:UNGERADE ZAHLEN - Zack Marker strip, flat

0810863

<https://www.phoenixcontact.com/us/products/0810863>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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UC-TMF 5 - Marker for terminal blocks

0818153

<https://www.phoenixcontact.com/us/products/0818153>

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUemark ID COLOR, BLUemark ID, BLUemark CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96



UC-TMF 5 CUS - Marker for terminal blocks

0824638

<https://www.phoenixcontact.com/us/products/0824638>

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96



PP-H 2,5/ 3 - Plug



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UCT-TMF 5 - Marker for terminal blocks

0828744

<https://www.phoenixcontact.com/us/products/0828744>

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72



UCT-TMF 5 CUS - Marker for terminal blocks

0829658

<https://www.phoenixcontact.com/us/products/0829658>

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72



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DFS-SP-H 2,5 - Flange cover

3061431

<https://www.phoenixcontact.com/us/products/3061431>

Flange cover, depth: 24.7 mm, width: 4.5 mm, height: 35.8 mm, color: gray



ST-BW - Actuation tool

1207608

<https://www.phoenixcontact.com/us/products/1207608>

Actuation tool, for all 2.5 mm² - 4.0 mm² spring-cages



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