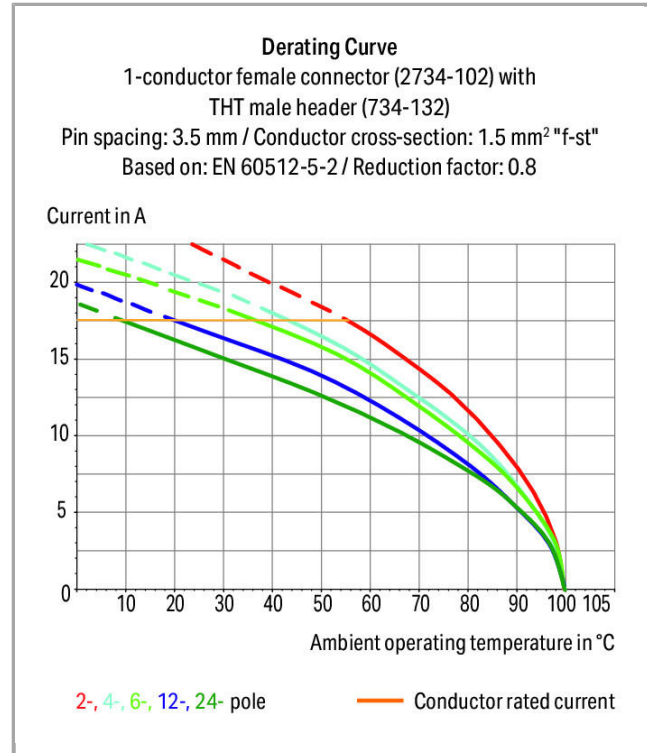
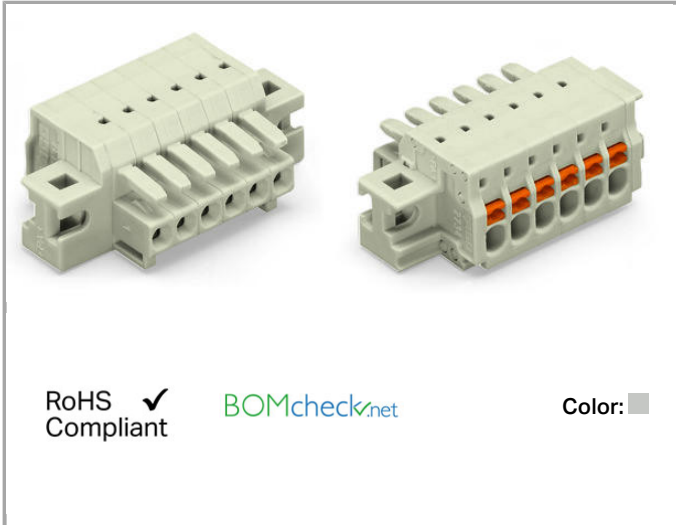


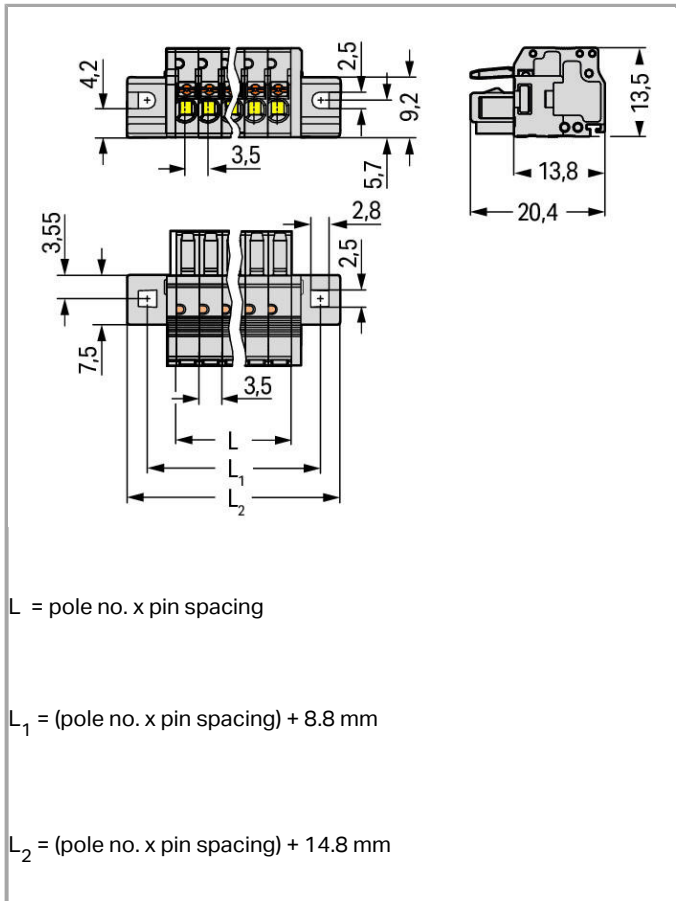
Data sheet | Item number: 2734-105/031-000

1-conductor female plug; 100% protected against mismating; push-button; clamping collar; 1.5 mm²; Pin spacing 3.5 mm; 5-pole



2734-105/031-000





Item description

- Universal connection for all conductor types
- Easy-to-use design does not require specialty tools
- Ability to wire while mated
- Simple, push-in termination of solid and ferruled conductors
- Integrated test ports for testing parallel to the conductor entry
- 100% protected against mismatching
- Coding via coding fingers

Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Data

Electrical data

Ratings per IEC/EN 60664-1

| | |
|---------------------------------|--------|
| Rated voltage (III / 3) | 160 V |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2) | 160 V |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2) | 320 V |
| Rated impulse voltage (II / 2) | 2.5 kV |
| Rated current | 10 A |

Approvals per UL 1059

| | |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 10 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A |

Approvals per CSA

| | |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A |

Connection data

| | |
|-------------------------------------------------------------|---------------------------------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Push-button |
| Solid conductor | 0.2 ... 1.5 mm ² / 24 ... 16 AWG |
| Fine-stranded conductor | 0.2 ... 1.5 mm ² / 24 ... 16 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0.25 ... 0.75 mm ² |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 1.5 mm ² |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inch |
| No. of poles | 5 |
| Total number of connection points | 5 |
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels | 1 |
| Conductor entry direction to mating direction | 0° |

Geometrical Data

| | |
|-------------|---------------------|
| Pin spacing | 3.5 mm / 0.138 inch |
|-------------|---------------------|



| | |
|--------|----------------------|
| Width | 32.3 mm / 1.272 inch |
| Height | 13.5 mm / 0.531 inch |
| Depth | 20.4 mm / 0.803 inch |

Mechanical data

| | |
|------------------|-----------------------------------------|
| Mounting type | Mounting flange |
| Type of mounting | Feed-through mounting Panel mounting |

Plug connection

| | |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type | for conductors |
| Mismating protection | Yes |

Material Data

| | |
|-----------------------------|-----------------------------------|
| Color | light gray |
| Material group | I |
| Insulating material | Polyamide 66 (PA 66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Copper alloy |
| Contact plating | tin-plated |
| Fire load | 0.112 MJ |
| Weight | 5.278 g |

Environmental Requirements

| | |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
|-------------------------|-----------------|

Commercial data

| | |
|--------------------|------------------------|
| Product Group | 3 (Multi Conn. System) |
| Country of origin | PL |
| GTIN | 4055143294201 |
| Customs Tariff No. | 85366990990 |

Approvals / Certificates

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---------------------------------|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | EN 61984 | 2147056.01 |





| | | |
|---------------------------------|-----------|----------|
| CCA DEKRA Certification B.V. | IEC 61984 | NL-23611 |
|---------------------------------|-----------|----------|










| | | |
|---------------------------------|---------------|---------|
| CSA DEKRA Certification B.V. | C22.2 No. 158 | 2314554 |
|---------------------------------|---------------|---------|

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|--------------------------------------|--------------------------|---------------------|
|  | UL UL International Germany GmbH | UL 1977 | E45171 |
|  | UR Underwriters Laboratories Inc. | UL 1059 | 20190122- E45172 |

Compatible products

tools

| | | |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------|
|  | Item no.: 210-250 Operating tool; for female and male connectors with CAGE CLAMP® connection; MCS MIDI & MINI | 210-250 |
|  | Item no.: 210-251 Operating tool; for female and male connectors with CAGE CLAMP® connection; MCS MINI & MICRO | 210-251 |
|  | Item no.: 210-647 Operating tool with partially insulated shaft; Blade (2.5 x 0.4) mm; short | 210-647 |
|  | Item no.: 210-719 Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm | 210-719 |
|  | Item no.: 734-190 Combination operating tool; for male and female connectors with CAGE CLAMP® | 734-190 |
|  | Item no.: 734-191 Operating tool; for male and female connectors with CAGE CLAMP®; loose | 734-191 |
|  | Item no.: 734-230 Push-button; for female and male connectors | 734-230 |
| | Item no.: 734-231 | |



Operating tool; for male and female connectors with CAGE CLAMP®; of 734 Series

734-231

assembling



Item no.: 209-147
Self-tapping screw

209-147



Item no.: 231-194
Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø

231-194



Item no.: 231-195
Screw with nut; M2x12; for fixing element

231-195



Item no.: 231-295
Screw with nut

231-295

Strain relief plate



Item no.: 734-128
Strain relief plate; 12.5 mm wide

734-128

ferrule



Item no.: 216-101
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated

216-101



Item no.: 216-102
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated

216-102



Item no.: 216-121
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated

216-121



Item no.: 216-122
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated

216-122



Item no.: 216-131
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

216-131



Item no.: 216-132
Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

216-132



Item no.: 216-141
Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

216-141



Item no.: 216-142
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

216-142



Item no.: 216-151
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

216-151



Item no.: 216-152
Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated

216-152



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








216-201



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

216-202

Item no.: 216-221

| | | |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|  | Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated | 216-221 |
|  | Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated | 216-222 |
|  | Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | 216-241 |
|  | Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | 216-242 |
|  | Item no.: 216-262 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | 216-262 |
| | Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated | 216-301 |
|  | Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated | 216-302 |
| | Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated | 216-321 |
|  | Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated | 216-322 |

Downloads

Documentation

Additional Information

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CAD/CAE - Smart Data

CAD data

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Subject to changes.