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Product Service

C E R T I F I C A T E

No. B 120216 0001 Rev. 03

Holder of Certificate: **FuYanSheng Electronic(Fujian)Co.,Ltd**
Floor 4, Workshop No.5, Bailong Village, Zhuqi Township
Minhou County
350100 Fuzhou City
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: **Connector**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64105223146704

Valid until: 2029-09-03

Date, 2024-09-04

(Martin Ma)

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Model(s):

Field wiring connectors for M12, M8, 7/8'' and RJ45 series:
FCC abcd-0000-ef-ooo-pqrrll

Single ended precast connectors for M12, M8, 7/8'' and RJ45 series:
FCC abcd-0000-ef-ggg-hhjkll-yyy

Double ended precast connectors for M12, M8, 7/8'' and RJ45 series:
FCC abcd-abcd-ef-ggg-hhjkll-yyy

D-SUB series:
FMKmn-opp-qr

M23 assembly connectors:
FCC M6cd-eS-sss

Distributor socket connectors:
FPI-vvv-wwzz@-thhu-#&*

Distributor plug connectors:
FPI %%%%-thhu

Flange precast connectors:
FCC M4B5-0000-1A-D00-P,
FCC M4B5-0000-2A-D00-P,
FCC M4A5-0000-1A-C00-H,
FCC M4A5-0000-2A-C00-H,
FCC M4A8-0000-1A-D00-P,
FCC M4A8-0000-2A-D00-P,
FCC M4A8-0000-1A-D00-H,
FCC M4A8-0000-2A-D00-H,
FCC I7H5-0000-10-VK05A1,
FCC I7H5-0000-20-VK05A1

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Model(s):

3-way precast connectors:
FCC M435-M435-M435-T2L,
FCC M415-M415-M415-Y23,
FCC M415-M415-M415-Y24,
FCC M415-M415-M415-Y27,
FCC M415-M415-M415-Y28,
FCC M414-M415-M415-Y35,
FCC M415-M415-M415-Y54,
FCC M415-M415-M415-T55,
FCC M415-M415-M415-Y45,
FCC M415-M415-M415-Y55,
FCC M415-M412-M413-Y52,
FCC M414-M414-M414-Y22,
FCC M414-M414-M414-Y34,
FCC M414-M313-M313-Y22,
FCC M418-M415-M314-Y00,
FCC M313-M313-M313-Y14,
FCC M314-M313-M313-Y22,
FCC M313-M313-M313-Y33,
FCC M414-M425-M425-Y24-VX8434,
FCC M415-M414-M414-Y24-VX8434,
FCC M414-M415-M415-Y22-PH0334,
FCC S414-S415-S415-Y22-PH0434,
FCC S414-S425-S425-Y22-PH0434,
FCC M414-M415-M415-Y22-VX8334,
FCC S414-S415-S415-Y22-VX8434,
FCC S414-S425-S425-Y22-VX8434,
FCC M414-M425-M425-Y26-PH0334,
FCC S414-S425-S425-Y26-PH0434,
FCC M414-M425-M425-Y26-VX8334,
FCC S414-S425-S425-Y26-VX8434,
FCC M414-M425-M425-Y22-PH0334,
FCC M414-M425-M425-Y22-VX8334,
FCC M415-M413-M413-Y43-PH0334,
FCC M415-M413-M413-Y33-PH0334,
FCC M414-M415-M415-Y22-PW4434,
FCC M414-M425-M425-Y26-PW2434,
FCC M414-M425-M425-Y26-PW4434,
FCC M414-M425-M425-Y22-PW2434,
FCC M414-M425-M425-Y22-PW4434,

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FCC M414-M313-M313-Y22-VX8325,
FCC M414-M313-M313-Y22-PH0325,
FCC M414-M314-M314-Y22-PH0325,
FCC M414-M314-M314-Y22-VX8325,
FCC M414-M323-M323-Y22-PH0325,
FCC M414-M323-M323-Y22-VX8325,
FCC M415-M313-M313-Y43-VX8325,
FCC M414-M415-M415-Y22-PW2434,
FCC M314-M313-M313-Y22-VX8325,
FCC M314-M313-M313-Y22-PH0325,
FCC M314-M314-M314-Y22-PH0325,
FCC M313-M313-M313-Y33-PH0325,
FCC M313-M313-M313-Y33-VX8325,
FCC M313-M314-M314-Y33-PH0325,
FCC M313-M314-M314-Y33-VX8325,
FCC M313-M313-M313-Y31-PH0325,
FCC M314-M324-M324-Y34-PH0325,
FCC M314-M313-M313-Y43-PH0325,
FCC M314-M313-M313-Y24-PH0325,
FCC I715-I715-I715-T28,
FCC I714-I714-I714-T30

1. Description of the rule of designation for field wiring connectors for M12, M8, 7/8'' and RJ45 series:

FCC abcd-0000-ef-ooo-pqrrll

a denotes type of connector, a can be M, I, E

- **M: metric system (for M12 and M8)**
- **I: british system (for 7/8'')**
- **E: for Enthernet application (for RJ45)**

b denotes connector sctructure, b can be 3, 4, 7, 8

- **3: M8 type**
- **4: M12 type**
- **7: 7/8'' type**
- **8: RJ45 type**

c denotes type of enclosure, c can be 3, 4, 5, 6 7, 8

- **3: plastic enclosure with metal coupling nut – straight**
- **4: plastic enclosure with metal coupling nut – bent (only for M12, M8)**
- **5: plastic assembly with plastic coupling nut – straight (only for 4/5/8 pins of M12 A code)**
- **6: plastic assembly with plastic coupling nut – bent (only for 4/5/8 pins of M12 A code)**
- **7: metal assembly – straight (only for M12, M8, RJ45)**

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8: metal assembly – bent (only for M12, RJ45)

d denotes number of visible poles, d can be 3, 4, 5, 8,

3: 3 poles (for M8, M12)

4: 4 poles (4 for M8 and M12, 3+PE for 7/8'')

5: 5 poles (4+PE for M12, 7/8'')

8: 8 poles (for M12, RJ45)

e denotes type of connector, e can be 1, 2

1: female

2: male

f denotes code type, f can be 0, A, B, D, L, S

0: none (for M8, 7/8'' and RJ45)

A: A code (for M8 and M12)

B: M12 B code

D: M12 D code

L: M12 L code

ooo denotes type of terminal resistance, ooo can be blank, R01, R03, R04

blank: no terminal resistance

R01: Profibus DP Terminal resistance (for M12 A/B/D code)

R03: CC-LINK Terminal resistance (for M12 A/B/D code)

R04: DN Terminal resistance (for M12 A/B/D code)

p denotes diameter of cable, p can be 3, 4, 5, 6, 7, 8

3: 4-5mm or 4.5-5mm

4: 4.5-6mm or 5-6mm

5: 6.5-7.5mm or 7.5-8mm or 6.5-8mm or 6-8mm or 6-6.5mm or 6.5-6.6mm

6: signal hole 3.5-5mm×2 (for M12 A code)

7: 8.5-10mm (for M12 L code)

8: 10.5-14mm (for 7/8'')

q denotes type of terminal, q can be 1, 3, 5

1: screw-type

3: Insulation piercing connection (for RJ45)

5: screwless-type

rr denotes number of wires of cable, rr can be X3, X4, X5, X6, X8

X3: 3 wires

X4: 4 wires

X5: 5 wires

X6: 6 wires

X8: 8 wires (for M12 and RJ45)

ll denotes cross-section area of wire, ll can be 14, 20, 25, 34, 50, 75, A1, 22, 24, 26

14: 0.14mm^2

20: 0.20mm^2

25: 0.25mm^2

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34: 0.34mm^2

50: 0.50mm^2

75: 0.75mm^2

A1: 1.5mm^2

22: 22AWG

24: 24AWG

26: 26AWG

2. Description of the rule of designation for single ended precast connectors for M12, M8, 7/8'' and RJ45 series:

FCC abcd-0000-ef-ggg-hhjkll-yyy

a denotes type of connector, a can be M, S, I, E

- **M: metric system zinc alloy nuts (for M12 and M8)**
- **S: metric system with stainless steel nuts(for M12 and M8)**
- **I: british system (only for 7/8'')**
- **E: for Enthernet application (for RJ45)**

b denotes connector structure, b can be 3, 4, 7, 8

- **3: M8 type**
- **4: M12 type**
- **7: 7/8'' type**
- **8: RJ45 type**

c denotes type of enclosure, c can be 1, 2, 3, H

- **1: plastic casting - straight**
- **2: plastic casting – bent**
- **3: plastic assembly – straight (for RJ45)**
- **H: front plate Flange for 7/8''**

d denotes number of visible poles, d can be 3, 4, 5, 8, C

- **3: 3 poles (for M8, M12)**
- **4: 4 poles (4 for M8 and M12, 4 or 3+PE for 7/8'')**
- **5: 5 poles (4+PE for M12, 5 or 4+PE for 7/8'')**
- **8: 8 poles (for M12, RJ45)**
- **C: 12 poles (only fot M12)**

e denotes type of connector, e can be 1, 2

- **1: female**
- **2: male**

f denotes code type, f can be 0, A, B, D, L

- **0: none (for M8, 7/8'' and RJ45)**
- **A: A code (for M8 and M12)**
- **B: M12 B code**
- **D: M12 D code**
- **L: M12 L code**

ggg denotes connection mode, ggg can be
000, 001, 004, 006,008, 010, 012, 014, 016, 030, 031, 033, 034, 036, 068, 043, 048

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000: no LEDs
001: 3-wire without LED
004: 3-wire with 2 LEDs
006: 4-wire / 5-wire without LED ,and insulation of conductor No. 5 is gray
008: 4-wire with 2 LEDs
010: 4-wire with 3 LEDs
012: 4-wire / 5-wire without LED ,and insulation of conductor No. 5 is yellow-green
014: 5-wire with 3 LEDs, and insulation of conductor No. 5 is gray
016: 5-wire with 3 LEDs, and insulation of conductor No. 5 is yellow-green
030: 5-wire A-code for DeviceNET
031: 5-wire B-code for ProfiBUS
033: 4-wire D-code for ProfiNET
034: 4-wire D-code for EtherNET
036: 4-wire A/D-code for EtherCAT
068: 4-wire A-code for CC-LINK
043: 4-wire RJ45
048: 8-wire RJ45

hh denotes type of cable, hh can be PH, PS, PW, VX, VS
PH: PUR flexible cable (for M12, M8, 7/8'' and RJ45)
PS: PUR shelding cable (for M12, M8 and 7/8'')
PW: PUR anti-splash of welding (for M12, M8 and 7/8'')
VX: PVC standard cable (for M12, M8, 7/8'' and RJ45)
VS: PVC shelding cable (for M12, M8 and 7/8'')

j denotes colour of cable, j can be 0, 2, 4, 8, V, B, G, R, T, W, N
0: black
2: yellow
4: orange
8: gray
V: violet
B: blue
G: green
R: red
T: tea green
W: white
N: brown

k denotes number of wires of cable, k can be blank, 3, 4, 5, 8, C
blank: for Ethernet harness
3: 3 wires
4: 4 wires
5: 5 wires
8: 8 wires

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C: 12 wires

ll denotes cross-section area of wire, ll can be blank, 14, 20, 25, 34, 50, 75, A1

blank: for Ethernet harness

14: 0.14mm^2

20: 0.20mm^2

25: 0.25mm^2

34: 0.34mm^2

50: 0.50mm^2

75: 0.75mm^2

A1: 1.5mm^2

yyy denotes number of poles/ type / wiring / protocol type used for Ethernet harness, yyy can be blank, PNA, PNC, 04E, 08E, 04C, DNX, DNT, C6A

blank: not for Ethernet harness

PNA: 4P / M12 D code or RJ45 / 4×22AWG / TYPE A for ProfiNET

PNC: 4P / M12 D code or RJ45 / 4×22AWG / TYPE C for ProfiNET

04E: 4P / M12 D code or RJ45 / 4×26AWG / EtherNET

08E: 8P / RJ45 / 4×2×26AWG / EtherNET

04C: 4P / M12 D code or RJ45 / 4×24AWG / EtherCAT

DNX: 5P / M12 B code or none(for 7/8'') / 2×24AWG+3×22AWG / DeviceNET

DNT: 5P / none(for 7/8'') / 2×18AWG+2×15AWG+22AWG / DeviceNET

C6A: 8P / RJ45 / 4×2×26AWG / CTA6A

3. Description of the rule of designation for models with double ended precast connectors for M12, M8, 7/8'' and RJ45 series:

FCC abcd-abcd-ef-ggg-hhjkll-yyy

a denotes type of connector, a can be M, S, I, E

M: metric system zinc alloy nuts (for M12 and M8)

S: metric system with stainless steel nuts(for M12 and M8)

I: british system (only for 7/8'')

E: for Enthernet application (for RJ45)

b denotes connector structure, b can be 3, 4, 7, 8

3: M8 type

4: M12 type

7: 7/8'' type

8: RJ45 type

c denotes type of enclosure, c can be 1, 2, 3, H

1: plastic casting - straight

2: plastic casting – bent

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3: plastic assembly – straight (for RJ45)
H: front plate Flange for 7/8''

d denotes number of visible poles, d can be 3, 4, 5, 8, C
3: 3 poles (for M8, M12)
4: 4 poles (4 for M8 and M12, 4 or 3+PE for 7/8'')
5: 5 poles (4+PE for M12, 5 or 4+PE for 7/8'')
8: 8 poles (for M12, RJ45)
C: 12 poles (only fot M12)

e denotes type of connector, e can be 3. 4, 5, 6
3: female-male
4: female-female
5: male-male
6: male-female

f denotes code type, f can be 0, B, D, L
0: none (for M8, 7/8'' and RJ45) or A code (for M8 and M12)
B: M12 B code
D: M12 D code
L: M12 L code

ggg denotes connection mode, ggg can be
000, 001, 004, 006,008, 010, 012, 014, 016, 030, 031, 033, 034, 036, 068, 043, 048, 041, 042, 044
000: no LEDs
001: 3-wire without LED
004: 3-wire with 2 LEDs
006: 4-wire / 5-wire without LED, and insulation of conductor No. 5 is gray
008: 4-wire with 2 LEDs
010: 4-wire with 3 LEDs
012: 4-wire / 5-wire without LED, and insulation of conductor No. 5 is yellow-green
014: 5-wire with 3 LEDs, and insulation of conductor No. 5 is gray
016: 5-wire with 3 LEDs, and insulation of conductor No. 5 is yellow-green
030: 5-wire A-code for DeviceNET
031: 5-wire B-code for ProfiBUS
033: 4-wire D-code for ProfiNET
034: 4-wire D-code for EtherNET
036: 4-wire A/D-code for EtherCAT
068: 4-wire A-code for CC-LINK
043: 4-wire RJ45
048: 8-wire RJ45
041: M8 to RJ45
042: M12 D code to RJ45
044: M12 A code to RJ45

hh denotes type of cable, h can be PH, PS, PW, VX, VS

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PH: PUR flexible cable
PS: PUR shelding cable
PW: PUR, anti-splash of welding
VX: PVC standard cable
VS: PVC shelding cable

j denotes colour of cable, j can be 0, 2, 4, 8, V, B, G, R, T, W, N
0: black
2: yellow
4: orange
8: gray
V: violet
B: blue
G: green
R: red
T: tea green
W: white
N: brown

k denotes number of wires of cable, k can be blank, 3, 4, 5, 8, C
blank: for Ethernet harness
3: 3 wires
4: 4 wires
5: 5 wires
8: 8 wires
C: 12 wires

ll denotes cross-section area of wire, ll can be blank, 14, 20, 25, 34, 50, 75, A1
blank: for Ethernet harness
14: 0.14mm^2
20: 0.20mm^2
25: 0.25mm^2
34: 0.34mm^2
50: 0.50mm^2
75: 0.75mm^2
A1: 1.5mm^2

yyy denotes number of poles/ type / wiring / protocol type used for Ethernet harness, yyy can be blank, PNA, PNC, 04E, 08E, 04C, DNX, DNT, C6A
blank: not for Ethernet harness
PNA: 4P / M12 D code or RJ45 / 4×22AWG / TYPE A for ProfiNET
PNC: 4P / M12 D code or RJ45 / 4×22AWG / TYPE C for ProfiNET
04E: 4P / M12 D code or RJ45 / 4×26AWG / EtherNET
08E: 8P / RJ45 / 4×2×26AWG / EtherNET

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04C: 4P / M12 D code or RJ45 / 4×24AWG / EtherCAT

DNX: 5P / M12 B code or none(for 7/8'') / 2×24AWG+3×22AWG / DeviceNET

DNT: 5P / none(for 7/8'') / 2×18AWG+2×15AWG+22AWG / DeviceNET

C6A: 8P / RJ45 / 4×2×26AWG / CTA6A

Remark: 1) For double ended precast connectors, the first abcd denotes one end of double ended precast connectors, second abcd denotes another end of double ended precast connectors.

2) The Descriptions of the rule of designation are only used for model interpretation, and the actual model needs to be determined in combination with table 1/2/3.

4. Description of the rule of designation for D-SUB series:

FMKmn-opp-qr

m denotes distance between mounting hole, m can be 1, 2, 3, 4, 5

1: 25.0mm

2: 33.3mm

3: 47.0mm

4: 63.5mm

5: 61.1mm

n denotes outlet angle, n can be blank, G

Blank: 45º

G: 180º.

o denotes number of rows, o can be 2, 3.

2: 2 rows (for 9 poles to 37 poles)

3: 3 rows (for 44 poles and 50 poles)

pp denotes numbers of poles, pp can be 9, 15, 25, 37, 44, 50

q denotes type of connector, q can be F, M

F: female

M: male

r denotes type of terminal, r can be S, C

S: solder

C: crimped (only for male)

5. Description of the rule of designation for M23 assembly connectors:

FCC M6cd-eS-sss

c denotes type of enclosure, c can be 5,6

5: metal enclosure with metal coupling nut-stright

6. metal enclosure with metal coupling nut and flange-stright

d denotes number of visible poles, d can be 9, C, K, L

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9: 9 poles
C: 12 poles
K: 17 poles
L: 19 poles

e denotes type of connector, e can be 1, 2
1: female
2: male

sss denotes digital coding direction, sss can be CW, CCW
CW: clockwise
CCW: counterclockwise

6.Description of the rule of designation for distributor socket:

FPI-vvv-wwzz@-thhu-#&*

vvv denotes number of output ports, vvv can be 4M, 6M, 8M, 10M, 12M, 16M
4M: 4 output ports
6M: 6 output ports
8M: 8 output ports
10M: 10 output ports
12M: 12 output ports
16M: 16 output ports

ww denotes type of distributor output, ww can be 08, S8, 12, I
08: M8 of small volume
S8: M8 of larger volume
12: M12
I: 7/8''

zz denotes number of poles of each output hole, zz can be 03, 04, 05
03: 3 poles
04: 4 poles
05: 5 poles

@ denotes type of LED light circuit, @ can be P, N, W
P: PNP
N: NPN
W: no LEDs

t denotes colour of input cable, t can be 0, 8
0: black or distributor without cable
8: gray

hh denotes type of input cable, hh can be 00, PH, VX
00: distributor without cable
PH: PUR flexible cable
VX: PVC standard cable

u denotes number and cross-section of input cable, u can be 0, 7, 8, A, B, C, E, L, K
0: distributor without cable

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7: 4×0.34+3×0.75mm^2 (for M12 output)

8: 8×0.25mm^2 (for M8 output)

A: 10×0.25mm^2(for M8 output)

B: 8×0.34+3×0.75mm^2 (for M12 output)

C: 12×0.25mm^2 (for M8 output)

E: 14×0.25mm^2 (for M8 output)

L: 16×0.34+3×0.75mm^2 (for M12 output)

K: 18×0.25mm^2 (for M8 output)

 # denotes type of input connector, # can be blank, 4, 6, 9, I, T, S

Blank: distributor with input cable has no connectors

4: M12

6: M23

9: D-SUB

I: 7/8''

T: plug input

S: screwless terminal input

& denotes whether input connector has a plug, & can be blank, 0, S

Blank: distributor with input cable has no connectors

0: without plug

S: with plug

*** denotes number of poles of input connector, * can be blank, 5, 8, 9, A, C, E, G, K, L, N, T**

Blank: distributor with input cable has no connectors

5: 5 poles (for 7/8 input)

8: 8 poles (for M12 input)

9: 9 poles (for plug input)

A: 10 poles (for M12 input and screwless terminal input)

C: 12 poles (for M23 input)

E: 14-poles (for screwless terminal input and plug input)

G: 16 poles (for plug input)

K: 18 poles (for screwless terminal input)

L: 19 poles (for M23 input)

N: 21 poles (for plug input)

T: 15 poles (for D-SUB inlut)

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Product Service

C E R T I F I C A T E

No. B 120216 0001 Rev. 03

Model(s):

7.Description of the rule of designation for distributor plug:

FPI %%%%-thhu

%%%% denotes type of plug, %%%% can be D001, D003, D201, D203, T009, T00E, T00G, T00N, M61C, M62C, M61L, M62L

D001: D-SUB 15-pole with PUR cable for distributor with 8 ouput ports

D003: D-SUB 15-pole with PVC cable for distributor with 8 ouput ports

D201: D-SUB 15-pole with PUR cable for distributor with 12 ouput ports

D203: D-SUB 15-pole with PVC cable for distributor with 12 ouput ports

T009: 9-pole input

T00E: 14-pole inlut

T00G: 16-pole input

T00N: 21-pole input

M61C: M23 12-Pole stright-type

M62C: M23 12-Pole bent-type

M61L: M23 19-Pole stright-type

M62L: M23 19-Pole bent-type

t denotes colour of enclosure, t can be 0, 8

0: black or without cable

8: gray

hh denotes type of cable, hh can be 0, PH, VX

0: without cable

PH: PUR flexible cable

VX: PVC standard cable

u denotes number and cross-section of wires of input cable, u can be 0, 7, A, B, E, L

0: without cable

7: 4×0.34+3×0.75mm^2(for plug input and M23 input)

A: 10×0.25mm^2 (for D-SUB input)

B: 8×0.34+3×0.75mm^2 (for plug input and M23 input)

E: 14×0.25mm^2 (for D-SUB input)

L: 16×0.34+3×0.75mm^2 (for plug input)

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Parameters:

Rated current:	See below table 1, 2, 3 for detail
Rated voltage:	See below table 1, 2, 3 for detail
Number of poles:	See below table 1, 2, 3 for detail
With or without breaking capacity:	Without (COC)
Overvoltage category:	II
Pollution degree:	2 for FCC abcd-0000-ef-ooo-pqrrll, FMKmn-opp-qr, FCC M6cd-eS-sss, FPI D%%%-thhu, FPI T%%%-thhu 2 (internal 1) for others
IP code:	IP00 for RJ45 series IP20 (after proper installation) for FMKmn-opp-qr IP54 (after proper installation) for FPI-vvv-wwzz@-thhu-60* mated with FPI M%%%-thhu, FPI-vvv-wwzz@-thhu-SS* mated with FPI T%%%-thhu, FPI-vvv-wwzz@-thhu-90* mated with FPI D%%%-thhu IP54 (after proper installation) for FCC M66d-eS-sss IP67 (after proper installation) for others
Temperature range (LLT-ULT):	-25°C to +95°C for FCC M4c3-0000-ef-ggg-hhjkll-yyy, FCC S4c3-0000-ef-ggg-hhjkll-yyy, FCC M4c4-0000-ef-ggg-hhjkll-yyy, FCC S4c4-0000-ef-ggg-hhjkll-yyy, FCC M4c5-0000-ef-ggg-hhjkll-yyy, FCC S4c5-0000-ef-ggg-hhjkll-yyy -25°C to +105°C for FMKmn-opp-qr -25°C to +100°C for FCC M6cd-eS-sss -25°C to +95°C for FPI-vvv-wwzz@-thhu-#&* and FPI %%%%-thhu
Number of operating cycles/mechanical endurance:	20 for FPI T%%%-thhu, FPI vvv-12zz@-0000-T&* 500 for others
Number of bendings /flexings:	50

Tested according to: EN 61984:2009

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Table 1 Detailed information of signal-end connectors						
Model		No. of pole	Rated current (at 60°C[3])	Wire cross-section area	Rated voltage	Type of terminals
Male connector	Female connector					
M12 series						
FCC M4cd-0000-1A-ooo-p1rrll	FCC M4cd-0000-2A-ooo-p1rrll	3, 4+PE	4A	0.14-0.75 mm²	125VAC/DC	Screw
		4	4A	0.14-0.75 mm²	250VAC/DC	Screw
		8	2A	0.14-0.75 mm²	32VAC/DC	Screw
FCC M4c5-0000-1B-ooo-p1rrll	FCC M4c5-0000-2B-ooo-p1rrll	4+PE	4A	0.14-0.75 mm²	125VAC/DC	Screw
FCC M4c4-0000-1D-ooo-p1rrll	FCC M4c4-0000-2D-ooo-p1rrll	4	4A	0.14-0.75 mm²	125VAC/DC	Screw
FCC M4c5-0000-1L-ooo-p1rrll	FCC M4c5-0000-2L-ooo-p1rrll	4+PE	10A	1.5-2.5 mm²	125VAC/DC	Screw
FCC M4cd-0000-1A-ooo-p5rrll	FCC M4cd-0000-2A-ooo-p5rrll	3-4	4A	0.14-0.75 mm²	125VAC/DC	Screwless
FCC M4cd-0000-1D-ooo-p5rrll	FCC M4cd-0000-2D-ooo-p5rrll	3-4	4A	0.14-0.75 mm²	125VAC/DC	Screwless
FCC M4cd-0000-1A-ggg-hhjkll-yyy	FCC M4cd-0000-2A-ggg-hhjkll-yyy	3, 4, 4+PE	4A	0.14-0.34 mm² or 22-26AWG	125VAC/DC or 24VAC/DC [1]	Crimped
		8	2A	0.14-0.25 mm²	60VAC/DC or 24VAC/DC [1]	Solder
		12	2A	0.14-0.25 mm²	60VAC/DC or 24VAC/DC [1]	Solder
FCC S4cd-0000-1A-ggg-hhjkll-yyy	FCC S4cd-0000-2A-ggg-hhjkll-yyy	3, 4, 4+PE	4A	0.14-0.34 mm² or 22-26AWG	125VAC/DC or 24VAC/DC [1]	Crimped
		8	2A	0.14-0.25 mm²	60VAC/DC or 24VAC/DC [1]	Solder
		12	2A	0.14-0.25 mm²	60VAC/DC or 24VAC/DC [1]	Solder
FCC M4c5-0000-1B-ggg-hhjkll-yyy	FCC M4c5-0000-2B-ggg-hhjkll-yyy	4+PE	4A	0.14-0.34 mm² or 22-26AWG	125VAC/DC or 24VAC/DC [1]	Crimped
FCC S4c5-0000-1B-ggg-hhjkll-yyy	FCC S4c5-0000-2B-ggg-hhjkll-yyy	4+PE	4A	0.14-0.34 mm² or 22-26AWG	125VAC/DC or 24VAC/DC [1]	Crimped
FCC M4c4-0000-1D-ggg-hhjkll-yyy	FCC M4c4-0000-2D-ggg-hhjkll-yyy	4	4A	0.14-0.34 mm² or 22-26AWG	125VAC/DC or 24VAC/DC [1]	Crimped
FCC S4c4-0000-1D-ggg-hhjkll-yyy	FCC S4c4-0000-2D-ggg-hhjkll-yyy	4	4A	0.14-0.34 mm² or 22-26AWG	125VAC/DC or 24VAC/DC [1]	Crimped
FCC M4c5-0000-1L-ggg-hhjkll-yyy	FCC M4c5-0000-2L-ggg-hhjkll-yyy	4+PE	10A	1.5mm²	125VAC/DC or 24VAC/DC [1]	Solder
FCC S4c5-0000-1L-ggg-hhjkll-yyy	FCC S4c5-0000-2L-ggg-hhjkll-yyy	4+PE	10A	1.5mm²	125VAC/DC or 24VAC/DC [1]	Solder
FCC M4B5-0000-1A-D00-P[2]	FCC M4B5-0000-2A-D00-P[2]	5	4A	0.34mm²	80VAC/DC	Solder
FCC M4A5-0000-1A-C00-H[2]	FCC M4A5-0000-2A-C00-H[2]	4	4A	0.34mm²	80VAC/DC	Solder
FCC M4A8-0000-1A-D00-P[2]	FCC M4A8-0000-2A-D00-P[2]	8	2A	0.25 mm²	32VAC/DC	Solder
FCC M4A8-0000-1A-D00-H[2]	FCC M4A8-0000-2A-D00-H[2]	8	2A	0.25 mm²	32VAC/DC	Solder
M8 series						

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FCC M3cd-0000-1f-ooo-p1rrll	FCC M3cd-0000-2f-ooo-p1rrll	3, 4	2A	0.14-0.75 mm²	60VAC/DC	Screw
FCC M3cd-0000-1f-ooo-p5rrll	FCC M3cd-0000-2f-ooo-p5rrll	3, 4	2A	0.14-0.75 mm²	32VAC/DC	Screwless
FCC M3cd-0000-1f-ggg-hhjkll-yyy	FCC M3cd-0000-2f-ggg-hhjkll-yyy	3, 4	2A	0.25-0.34mm²	60VAC/DC or 24VAC/DC [1]	Crimped
FCC S3cd-0000-1f-ggg-hhjkll-yyy	FCC S3cd-0000-2f-ggg-hhjkll-yyy	3, 4	2A	0.25-0.34mm²	60VAC/DC or 24VAC/DC [1]	Crimped
7/8“ series						
FCC I73d-0000-10-ooo-p1rrll	FCC I73d-0000-20-ooo-p1rrll	3+PE, 4+PE	12A	1.5mm²	300VAC/DC	Screw
FCC I7cd-0000-10-ggg-hhjkll-yyy	FCC I7cd-0000-20-ggg-hhjkll-yyy	3+PE, 4+PE	12A	1.5mm²	300VAC/DC	Solder
FCC I7c5-0000-10-ggg-hhjkll-yyy	FCC I7c5-0000-20-ggg-hhjkll-yyy	4+PE	4A	2×24AWG+3×22AWG or 2×18AWG+2×15AWG+22AWG	300VAC/DC	Solder
FCC I7H5-0000-10-VK05A1[2]	FCC I7H5-0000-20-VK05A1[2]	4, 5	12A	1.5mm²	300VAC/DC	Solder
RJ45 series						
FCC E818-0000-10-048	FCC E83d-20-53rrll	4	1	22-26AWG,	24VAC/DC	Insulation piercing for male, solder on PCB for female
	FCC E87d-20-53rrll	4, 8	1	22-26AWG, 0.5mm²	24VAC/DC	
	FCC E88d-20-53rrll	4, 8	1	22-26AWG, 0.5mm²	24VAC/DC	
	FCC E814-20-043-hhjyyy	4	1	22-26AWG	24VAC/DC	
	FCC E818-20-048-hhjyyy	8	1	24-26AWG	24VAC/DC	
	FCC E834-20-043-hhjyyy	4	1	22-26AWG	24VAC/DC	
	FCC E838-20-048-hhjyyy	8	1	24-26AWG	24VAC/DC	
D-SUB series						
FMKmn-opp-MC	FMKmn-opp-FC	9, 15,	2A	0.25mm², 23AWG	30VAC/DC	Crimped
		25		0.20mm², 24AWG		
		44, 50		0.14mm², 26AWG		
FMKmn-opp-MS	FMKmn-opp-FS	9, 15,	2A	0.25mm², 23AWG	30VAC/DC	Solder
		25		0.20mm², 24AWG		
		37, 44, 50		0.14mm², 26AWG		
M23 assembly connectors						
FCC M6cd-1S-sss	FCC M6cd-2S-sss	8+PE, 11+PE	4A (at 45°C)	0.25-0.75mm², 23-19AWG	150AC/DC	Crimped
		16+PE	4A(at 45°C)		125AC/DC	
		18+PE	Power: 10A, Signal: 4A (at 45°C)		100AC/DC	

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Remark:

1) For models with LEDs, the rated voltage is 24VAC/DC, and for models without LEDs, the rated voltage is the former.
2) Flanges cannot be matched with each other, but flanges can be matched with connectors of the same category, code, and number of poles.
3) Except M23 series, rated current (at 45°C) is for M23 series.

Table 2 Detailed information of distributor connectors

Model			Number of output ports	Number of poles		Rated current (at 40°C) (A)			Wire cross-section area (mm^2 or AWG)		Rated voltage (V AC/DC)	Type of terminals
Input connector (plug)	Distributor	Output connector		Input connector	Output port	Input	Distributor	Output	input	output		
Cable input												
-	FPI vvv-08zz@-thhu	FCC M3cd-0000-20-001-hhjk25	4, 6, 8, 10	9, 18	3, 4	-	6 For +/-/PE, 2 for others	max.2 for each port	0.25	0.25	30	-/solder /crimped
-	FPI vvv-S8zz@-thhu	FCC M3cd-0000-20-001-hhjk25	8, 10, 16	9, 18	3, 4	-		max.2 for each port	0.25	0.25	30	-/solder /crimped
-	FPI vvv-12zz@-thh7	FCC M4cd-0000-20-001-hhjk34	4, 8	6+PE	4, 4+PE	-	6 For +/-/PE, 4 for others	max.4 for each port	4×0.34+3×0.75	0.34	30	-/solder /crimped
-	FPI vvv-12zz@-thhB	FCC M4cd-0000-20-001-hhjk34	4, 8	10+PE	4, 4+PE	-		max.4 for each port	7×0.34+3×0.75	0.34	30	-/solder /crimped
-	FPI vvv-12zz@-thhL	FCC M4cd-0000-20-001-hhjk34	4, 8	18+PE	4, 4+PE	-		max.4 for each port	16×0.34+3×0.75	0.34	30	-/solder /crimped
M12 input												
FCC M41d-0000-1A-000- hhjk25	FPI-vvv-08zz@-0000-40*	FCC M3cd-0000-20-001-hhjk25	4, 6, 8, 10	8, 12	3, 4	2	-	max.2 for each port	0.25	0.25	30	Solder /solder /crimped
FCC M41d-0000-1A-000- hhjk25	FPI-vvv-S8zz@-0000-40*	FCC M3cd-0000-20-001-hhjk25	4, 6, 8, 10	8, 12	3, 4	2	-	max.2 for each port	0.25	0.25	30	Solder /solder /crimped
D-SUB input												
FPI D%%%-thhu	FPI-vvv-S8zz@-0000-90T	FCC M3cd-0000-20-001-hhjk25	8, 12	15	3, 4	6	-	max.2 for each port	0.25	0.25	30	Solder /solder /crimped
Screwless terminal input												
-	FPI vvv-S8zz@-0000-SS*	FCC M3cd-0000-20-001-hhjk25	8, 12, 16	10, 14, 18	3, 4	-	6	max.2 for each port	0.25	0.25	30	Screwless /crimped
plug input												
FPI T%%%-thhu	FPI vvv-12zz@-0000-T&*	FCC M415-0000-20-001-hhjk34	4	8+PE	4+PE	10 For +/-/PE, 4 for others		max.4 for each port	4×0.34+3×0.75	0.34	30	Screwless/ screwless /solder crimped
FPI T%%%-thhu	FPI vvv-12zz@-0000-T&*	FCC M415-0000-20-001-hhjk34	4, 8	13+PE, 15+PE	4+PE				8×0.34+3×0.75	0.34	30	
FPI T%%%-thhu	FPI vvv-12zz@-0000-T&*	FCC M415-0000-20-001-hhjk34	8	20+PE	4+PE				16×0.34+3×0.75	0.34	30	
M23 input												

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FPI M6%%-thhu	FPI vvv-12zz@-0000-60L	FCC M415-0000-20-001-hhjk34	4, 8	18+PE	4+PE	10	10	max.4 for each port	16×0.34 +3×0.75	0.34	30	Crimped /solder /crimped
FPI M6%%-thhu	FPI vvv-12zz@-0000-60C	FCC M415-0000-20-001-hhjk34	4, 8	12	4	10	4	max.4 for each port	0.25	0.34	30	Crimped /solder /crimped
For 7/8'' input												
FPI M6%%-thhu	FPI vvv-I05@-0000-I05	FPI M6%%-thhu	4, 8	4, 4+PE	4, 4+PE	12	16	8	1.5	1.5	300	Solder /solder /solder

Table 3 Detailed information of double-end and 3-way connectors

Model	No. of pole [1)]	Rated current (at 60°C)	Wire cross-section area	Rated voltage	Type of terminals
FCC M4cd-M4cd-e0-ggg-hhjkll-yyy	3, 4, 4+PE	4A	0.14-0.34 mm^2 or 22-26AWG	125VAC/DC or 24VAC/DC[1)]	Crimped
	8	2A	0.14-0.25 mm^2	60VAC/DC or 24VAC/DC[1)]	Solder
	12	2A	0.14-0.25 mm^2	60VAC/DC or 24VAC/DC[1)]	Solder
FCC S4cd-S4cd-e0-ggg-hhjkll-yyy	3, 4, 4+PE	4A	0.14-0.34 mm^2 or 22-26AWG	125VAC/DC or 24VAC/DC[1)]	Crimped
	8	2A	0.14-0.25 mm^2	60VAC/DC or 24VAC/DC[1)]	Solder
	12	2A	0.14-0.25 mm^2	60VAC/DC or 24VAC/DC[1)]	Solder
FCC M4cd-M4cd-eBggg-hhjkll-yyy	4+PE	4A	0.14-0.34 mm^2 or 22-26AWG	125VAC/DC or 24VAC/DC[1)]	Crimped
FCC S4cd-S4cd-eBggg-hhjkll-yyy	4+PE	4A	0.14-0.34 mm^2 or 22-26AWG	125VAC/DC or 24VAC/DC[1)]	Crimped
FCC M4cd-M4cd-eD-ggg-hhjkll-yyy	4	4A	0.14-0.34 mm^2 or 22-26AWG	125VAC/DC or 24VAC/DC[1)]	Crimped
FCC S4cd-S4cd-eD-ggg-hhjkll-yyy	4	4A	0.14-0.34 mm^2 or 22-26AWG	125VAC/DC or 24VAC/DC[1)]	Crimped
FCC M4c5-M4c5-eL-ggg-hhjkll-yyy	4+PE	10A	1.5mm^2	125VAC/DC or 24VAC/DC[1)]	Solder
FCC S4c5-S4c5-eL-ggg-hhjkll-yyy	4+PE	10A	1.5mm^2	125VAC/DC or 24VAC/DC[1)]	Solder
FCC M3cd-M3cd-e0-ggg-hhjkll-yyy	3, 4	2A	0.25-0.34mm^2	60VAC/DC or 24VAC/DC[1)]	Crimped
FCC S3cd-S3cd-e0-ggg-hhjkll-yyy	3, 4	2A	0.25-0.34mm^2	60VAC/DC or 24VAC/DC[1)]	Crimped
FCC M4cd-M3cd-e0-ggg-hhjkll-yyy	3, 4	2A	0.25mm^2	60VAC/DC or 24VAC/DC[1)]	Crimped
FCC S4cd-S3cd-e0-ggg-hhjkll-yyy	3, 4	2A	0.25mm^2	60VAC/DC or 24VAC/DC[1)]	Crimped
FCC I7cd-I7cd-e0-ggg-hhjkll-yyy	3+PE, 4+PE	12A	1.5mm^2	300VAC/DC	Solder

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FCC I7c5-I7c5-e0-ggg-hhjkll-yyy	4+PE[4)]	4A	2×24AWG+2×22AWG or 2×18AWG+2×15AWG	300VAC/DC	Solder
FCC E814-E814-50-043-hhjyyy	4	1	22-26AWG	24VAC/DC	Insulation piercing
FCC E818-E818-50-048-hhjyyy	8	1	24-26AWG	24VAC/DC	Insulation piercing
FCC E834-E834-50-043-hhjyyy	4	1	22-26AWG	24VAC/DC	Insulation piercing
FCC E838-E838-50-048-hhjyyy	8	1	24-26AWG	24VAC/DC	Insulation piercing
FCC M314-E814-5A-041-hhjyyy	4	1	22-26AWG	24VAC/DC	Insulation piercing
FCC M414-E814-5D-042-hhjyyy	4	1	22-26AWG	24VAC/DC	Insulation piercing
FCC M418-E818-5A-044-hhjyyy	8	1	24-26AWG	24VAC/DC	Insulation piercing
FCC M435-M435-M435-T2L	3	16	1.5-2.5mm²	125VAC/DC	-
FCC M415-M415-M415-Y23	4	4A	0.14-0.75mm²	60VAC/DC	-
FCC M415-M415-M415-Y24	4, 4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M415-M415-M415-Y27	4, 4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M415-M415-M415-Y28	4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M414-M415-M415-Y35	4, 4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M415-M415-M415-Y54	4, 4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M415-M415-M415-T55	4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M415-M415-M415-Y45	4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M415-M415-M415-Y55	4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M415-M412-M413-Y52	2, 3, 4+PE	4A	0.14-0.75mm²	60VAC/DC	-
FCC M414-M414-M414-Y22	3, 4	4A	0.14-0.75mm²	60VAC/DC	-
FCC M414-M414-M414-Y34	4	4A	0.14-0.75mm²	60VAC/DC	-
FCC M414-M313-M313-Y22	3, 4	2A	0.14-0.75mm²	60VAC/DC	-
FCC M418-M415-M314-Y00	2, 4, 6	2A	0.14-0.75mm²	60VAC/DC	-
FCC M313-M313-M313-Y14	3	2A	0.14-0.50mm²	60VAC/DC	-
FCC M314-M313-M313-Y22	3, 4	2A	0.14-0.50mm²	60VAC/DC	-
FCC M313-M313-M313-Y33	3	2A	0.14-0.50mm²	60VAC/DC	-
FCC M414-M425-M425-Y24-VX8434	4, 4+PE	4A	0.34mm²	60VAC/DC	Crimped
FCC M414-M415-M415-Y22-PH0334	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC S414-S415-S415-Y22-PH0434	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC S414-S425-S425-Y22-PH0434	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M414-M415-M415-Y22-VX8334	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC S414-S415-S415-Y22-VX8434	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC S414-S425-S425-Y22-VX8434	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M415-M414-M414-Y24-VX8434	4, 4+PE	4A	0.34mm²	60VAC/DC	Crimped
FCC M414-M425-M425-Y26-PH0334	3, 4	4A	0.34mm²	24VAC/DC	Crimped
FCC S414-S425-S425-Y26-PH0434	3, 4	4A	0.34mm²	24VAC/DC	Crimped
FCC M414-M425-M425-Y26-VX8334	3, 4	4A	0.34mm²	24VAC/DC	Crimped

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Product Service

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No. B 120216 0001 Rev. 03

FCC S414-S425-S425-Y26-VX8434	3, 4	4A	0.34mm²	24VAC/DC	Crimped
FCC M414-M425-M425-Y22-PH0334	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M414-M425-M425-Y22-VX8334	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M415-M413-M413-Y43-PH0334	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M415-M413-M413-Y33-PH0334	3	4A	0.34mm²	60VAC/DC	Crimped
FCC M414-M415-M415-Y22-PW4434	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M414-M425-M425-Y26-PW2434	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M414-M425-M425-Y26-PW4434	3, 4	4A	0.34mm²	24VAC/DC	Crimped
FCC M414-M425-M425-Y22-PW2434	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M414-M425-M425-Y22-PW4434	3, 4	4A	0.34mm²	60VAC/DC	Crimped
FCC M314-M313-M313-Y22-PH0325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M414-M313-M313-Y22-VX8325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M414-M313-M313-Y22-PH0325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M414-M314-M314-Y22-PH0325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M414-M314-M314-Y22-VX8325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M414-M323-M323-Y22-PH0325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M414-M323-M323-Y22-VX8325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M415-M313-M313-Y43-VX8325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M414-M415-M415-Y22-PW2434	3, 4	2A	0.34mm²	60VAC/DC	Crimped
FCC M313-M313-M313-Y33-PH0325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M313-M313-M313-Y33-VX8325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M313-M314-M314-Y33-PH0325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M313-M314-M314-Y33-VX8325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M314-M324-M324-Y34-PH0325	4	2A	0.25mm²	60VAC/DC	Crimped
FCC M313-M313-M313-Y31-PH0325	3	2A	0.25mm²	60VAC/DC	Crimped
FCC M314-M313-M313-Y22-VX8325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M314-M314-M314-Y22-PH0325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC M314-M313-M313-Y43-PH0325	3, 4	2A	0.25mm²	60VAC/DC	Crimped
FCC I715-I715-I715-T28	4+PE	16A	1.5mm²	300VAC/DC	Solder
FCC I714-I714-I714-T30	3+PE	16A	1.5mm²	300VAC/DC	Solder

1) For models with LEDs, the rated voltage is 24VAC/DC, and for models without LEDs, the rated voltage is the former.

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