

IDC female connectors - FP 1,27/ 12-FWL - 1714902

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IDC female connector, Nominal current at 20 °C: 1.2 A, Test voltage: 500 V AC, number of positions: 12, pitch: 1.27 mm, connection method: IDC connection, color: black, contact surface: Gold


The figure shows a 12-pos. version with 12 contacts

Your advantages

- ✓ Gold-plated contacts ensure transfer quality remains stable over the long term
- ✓ Compact, high-position board-to-board or wire-to-board connectors for space-saving device designs
- ✓ Can be ordered pre-assembled: IDC female connectors with flat-ribbon cable enable immediate use in the device



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 480 pc |
| GTIN |  4 055626 402826 |
| GTIN | 4055626402826 |

Technical data

Item properties

| | |
|---------------------------|-------------------------|
| Brief article description | IDC female connectors |
| Plug-in system | FINEPITCH 1,27 mm |
| Type of contact | Female connector |
| Range of articles | FP 1,27/...-FWL |
| Pitch | 1.27 mm |
| Number of positions | 12 |
| Connection method | Displacement connection |
| Number of levels | 2 |
| Number of potentials | 12 |

Electrical data

| | |
|--------------------------|-----------------|
| Nominal current at 20 °C | 1.2 A (50-pos.) |
|--------------------------|-----------------|

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Technical data

Electrical data

| | |
|-----------------------|----------------------------------|
| Test voltage | 500 V AC |
| Contact resistance | ≤10 mΩ, (IEC 60512-2-1:2002-02) |
| Insulation resistance | ≥ 10 GΩ, (IEC 60512-3-1:2002-02) |

Connection capacity

| | |
|-------------------------------------|-------------------------|
| Connection method | Displacement connection |
| Conductor cross section AWG / kcmil | 30 |

Material data - contact

| | |
|---|---|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material | Cu alloy |
| Surface characteristics | Selective coating |
| Metal surface contact area (top layer) | Gold (Au) |
| Metal surface contact area (middle layer) | Nickel (Ni), Palladium nickel (PdNi) |

Material data - housing

| | |
|--|------|
| Insulating material | LCP |
| Insulating material group | IIIa |
| CTI according to IEC 60112 | 175 |
| Flammability rating according to UL 94 | V0 |

Dimensions for the product

| | |
|--------------|----------|
| Length [l] | 13.65 mm |
| Width [w] | 13.78 mm |
| Height [h] | 4.2 mm |
| Pitch | 1.27 mm |

Dimensions for the application

| | |
|-------------------|---|
| Medium offset | ± 0.7 mm in longitudinal and transverse direction |
| Angular tolerance | ± 4 ° in longitudinal direction |
| | ± 2 ° in transverse direction |

Packaging information

| | |
|----------------------------|------|
| Type of packaging | Tray |
| Pieces per package | 480 |
| Denomination packing units | Pcs. |

General product information

| | |
|--------------|--|
| Type of note | Note on application |
| | Note regarding documentation |
| Note | Please observe the application note on self-assembly in the download area. |
| | Current documents such as 3D models, products family drawings, data sheets or packaging drawings are available in the Download Center. |

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Technical data

Ambient conditions

| | |
|---|-------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -55 °C ... 125 °C |

Mechanical tests

| | |
|--|---------------|
| Insertion and withdrawal force per contact | approx. 0.5 N |
|--|---------------|

Service life

| | |
|--------------|--|
| Service life | 500 Insertion/withdrawal cycles, Performance level 1 |
|--------------|--|

Cables / lines 1

| | |
|---|---------------------------|
| Cable type | Flat-ribbon conductor PVC |
| Single wire, color | gray |
| Note | Coded wire: red |
| Cable structure | 12x7x0.102 mm |
| Conductor structure signal line | 7x 0.10 mm |
| AWG signal line | 30 |
| Conductor cross section | 0.06 mm ² |
| Pitch | 0.635 mm |
| Conductor material | Tin-plated Cu litz wires |
| Flame resistance | UL VW-1 |
| UL AWM style | 2678 |
| Ambient temperature (mobile installation) | -10 °C 105 °C |

Cables / lines 2

| | |
|---|--|
| Cable type | Flat-ribbon conductor TPE-0 |
| Single wire, color | gray |
| Cable structure | 12x7x0.102 mm |
| Conductor structure signal line | 7x 0.10 mm |
| AWG signal line | 30 |
| Conductor cross section | 0.06 mm ² |
| Pitch | 0.635 mm |
| Test voltage Core/Core | 800 V |
| Conductor material | Tin-plated Cu litz wires |
| Flame resistance | in accordance with UL 1581 (horizontal flame test) |
| Ambient temperature (mobile installation) | -20 °C 105 °C |

Cables / lines 3

| | |
|---------------------------------|-----------------------------|
| Cable type | Flat-ribbon conductor TPE-S |
| Single wire, color | gray |
| Cable structure | 12x7x0.102 mm |
| Conductor structure signal line | 7x 0.10 mm |
| AWG signal line | 30 |

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Technical data

Cables / lines 3

| | |
|---|--------------------------|
| Conductor cross section | 0.06 mm ² |
| Pitch | 0.635 mm |
| Conductor material | Tin-plated Cu litz wires |
| Flame resistance | IEC 60332-1-2 |
| Ambient temperature (mobile installation) | -40 °C 125 °C |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27440309 |
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |
| ETIM 7.0 | EC002638 |

Approvals

Approvals

Approvals

cULus Recognized / EAC

Ex Approvals

Approval details

IDC female connectors - FP 1,27/ 12-FWL - 1714902

Approvals

cULus Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> E118976-20170331

EAC



B.01687

Accessories

Additional products

SMD male connectors - FP 1,27/ 12-MV 3,25 - 1714924



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 12, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

SMD male connectors - FP 1,27/ 12-MV 1,75 - 1714934



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 12, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

SMD male connectors - FP 1,27/ 12-MH - 1714912



SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 12, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

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