

GENERAL INFORMATION

| | |
|--|--|
| No. of contacts | from 6 to 100poles, all even numbers |
| Contact spacing | 1,27mm x 1,27mm [0,050"x0,050"] |
| Test Voltage | 500V |
| Contact resistance | < 25 mOhm |
| Insulation resistance | ≥ 10x10 ⁹ Ω |
| Working current acc. to IEC 60512, at 70°C, 80% derating | see derating diagram |
| Working temperature range | -55°C ... +125°C |
| Termination technology | IDC |
| Clearance & creepage distance | 0,4mm min. |
| Insertion force (depending on mating connector) | approximately 0,5N/contact |
| Withdrawal force (depending on mating connector) | approximately 0,5N/contact |
| Mating cycles | PL1 : 500 mating cycles PL2 : 250 mating cycles |
| RoHS - compliant | Yes |
| Leadfree | Yes |
| Working voltage acc. to IEC 60664-1 | 100V / 150V (depending on installation category) |
| UL file acc. UL 1977 | ECBT2.E102079 |
| UL file acc. CSA-C22.2 (for Canada) | ECBT8.E102079 |

INSULATOR MATERIAL

| | |
|---------------------------------|----------------------------------|
| Material | LCP (liquid crystalline polymer) |
| Color | Black |
| UL classification | UL94-V0 |
| Material group acc. IEC 60664-1 | IIIa (175 ≤ CTI < 400) |

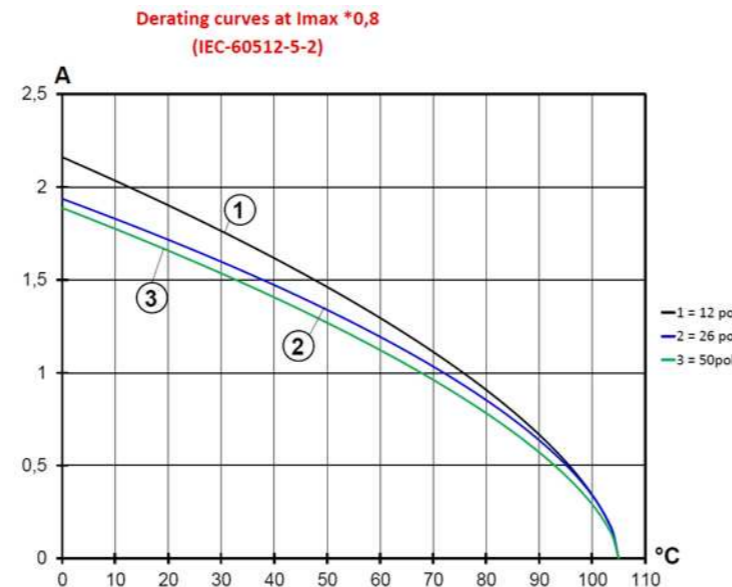
CONTACT MATERIAL

| | |
|------------------------------|--|
| Contact material | Copper alloy |
| Plating termination zone | Sn |
| Plating contact sliding side | Au over PdNi (acc. to Performance level) |

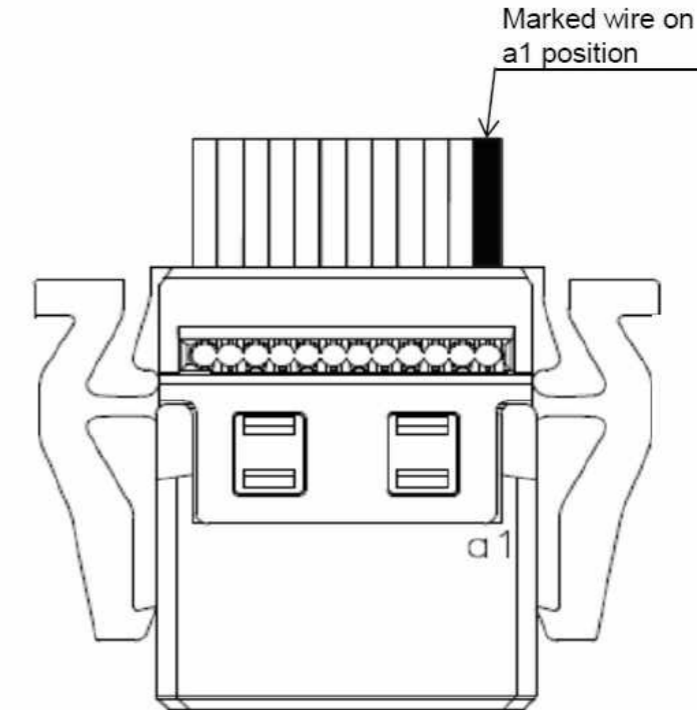
DERATING DIAGRAM acc. to IEC 60512-5 (Current carrying capacity)

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60512-5
derating curve at I_{max}*0,8 (IEC 60512-5-2)



CABLE ASSEMBLY REQUIREMENTS



FLAT CABLE REQUIREMENT FOR IDC CONNECTORS

| | |
|---------------------|---|
| PVC flat cables | AWG 30/1 (solid) AWG 30/7 (stranded) |
| PTFE flat cables | AWG 30/1 (solid) |
| Insulation diameter | min 0,55mm - max 0,75 mm |

Important note :

For an undisturbed operation of the cable assembly, please use a har-flex IDC cable connector on both ends of the cable. If you have to use a different cable connector beside one har-flex IDC cable connector, please, make sure to have the correct pin assignment of the ribbon cable wires according to this data sheets.

| | | | | |
|---|--|-----------------------|----------------------|--|
| | All Dimensions in mm Original Size DIN A3 | Scale 1:1 | Free size tol. | Ref. |
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| HARTING Electronics GmbH D-32339 Espelkamp | Title har flex female IDC | | | Doc-Key / ECM-Nr. 100578170/UGD/000/B 500000126530 |
| | Type DS | Number 15292100601 | Rev. B | Page 1/2 |

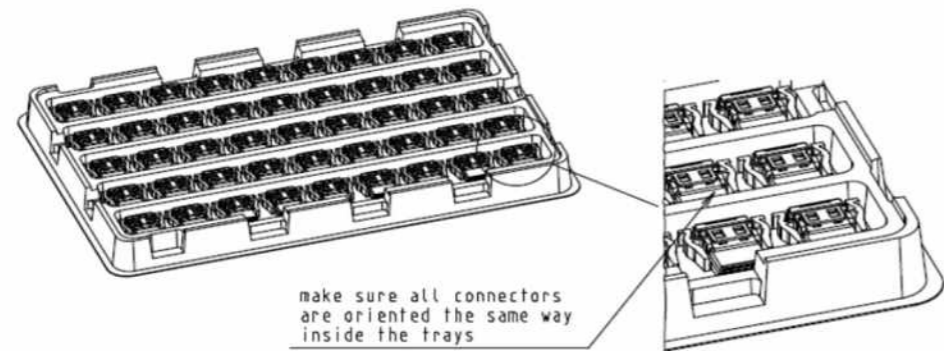
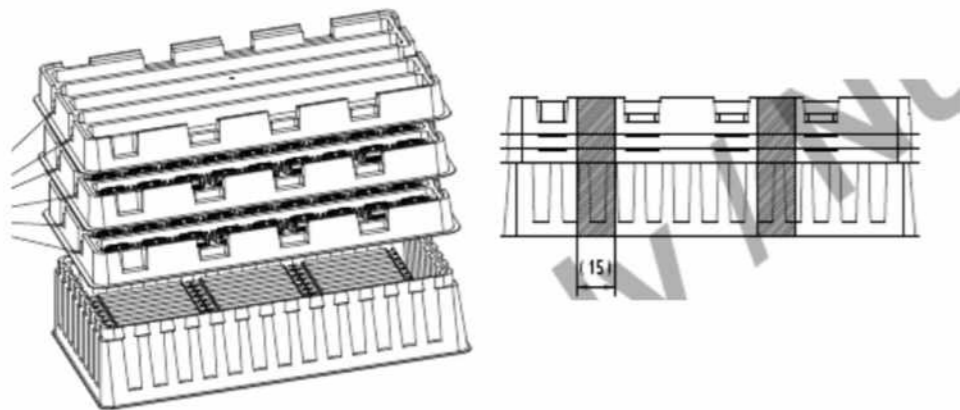


har-flex female IDC



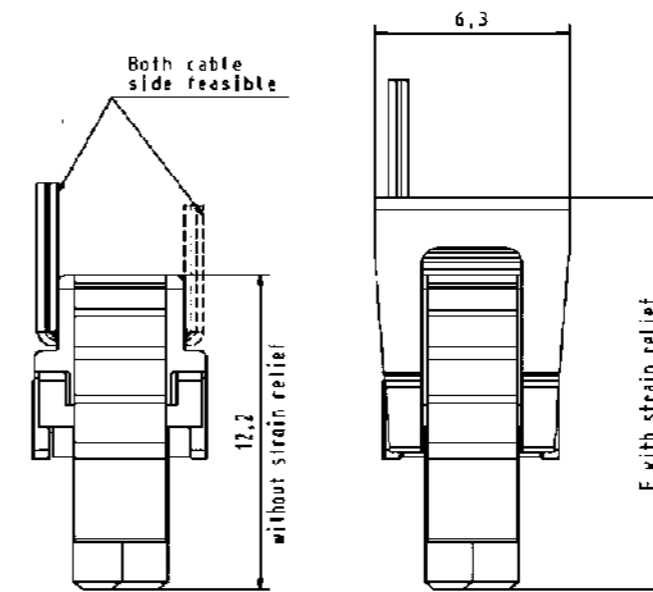
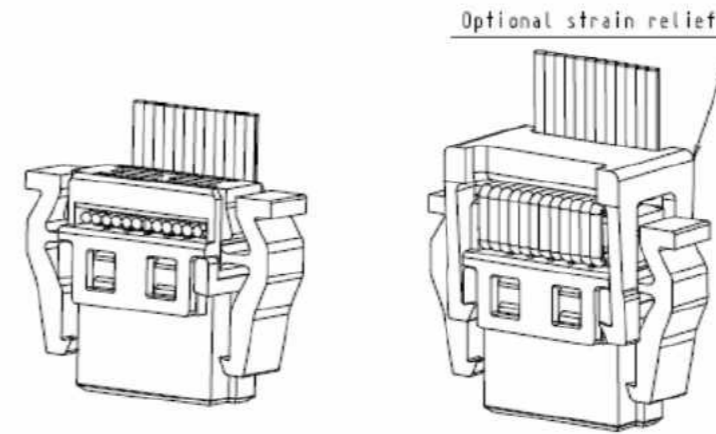
PACKAGING

2-5 fully filled connector trays (depending on pin counts) with optional strain relief bottom tray



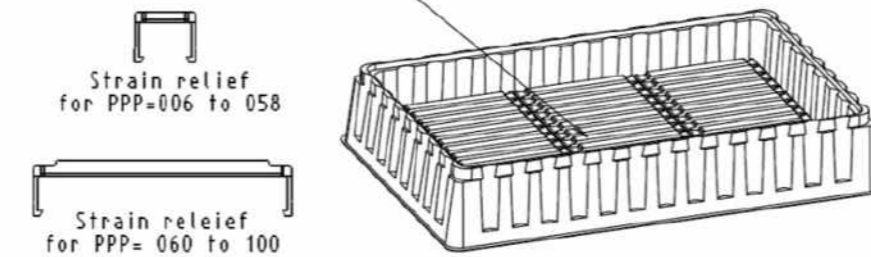
| Pin count | Number of trays | Connectors per tray | Connectors per package |
|-----------|-----------------|---------------------|------------------------|
| 6 | 2 | 65 | 130 |
| 8 | 2 | 55 | 110 |
| 10 | 2 | 50 | 100 |
| 12 | 2 | 50 | 100 |
| 14 | 2 | 45 | 90 |
| 16 | 3 | 40 | 120 |
| 18 | 3 | 40 | 120 |
| 20 | 3 | 35 | 105 |
| 22 | 3 | 35 | 105 |
| 24 | 4 | 30 | 120 |
| 26 | 4 | 30 | 120 |
| 28 | 4 | 30 | 120 |
| 30 | 4 | 25 | 100 |
| 32 | 4 | 25 | 100 |
| 34 | 4 | 25 | 100 |
| 36 | 4 | 25 | 100 |
| 38 | 5 | 20 | 100 |
| 40 | 5 | 20 | 100 |
| 42 | 5 | 20 | 100 |
| 44 | 5 | 20 | 100 |
| 46 | 5 | 20 | 100 |
| 48 | 5 | 20 | 100 |
| 50 | 5 | 15 | 75 |
| 52 | 5 | 15 | 75 |
| 54 | 5 | 15 | 75 |
| 56 | 5 | 15 | 75 |
| 58 | 5 | 15 | 75 |
| 60 | 5 | 15 | 75 |
| 62 | 5 | 15 | 75 |
| 64 | 5 | 15 | 75 |
| 66 | 5 | 15 | 75 |
| 68 | 5 | 15 | 75 |
| 70 | 5 | 10 | 50 |
| 72 | 5 | 10 | 50 |
| 74 | 5 | 10 | 50 |
| 76 | 5 | 10 | 50 |
| 78 | 5 | 10 | 50 |
| 80 | 5 | 10 | 50 |
| 82 | 5 | 10 | 50 |
| 84 | 5 | 10 | 50 |
| 86 | 5 | 10 | 50 |
| 88 | 5 | 10 | 50 |
| 90 | 5 | 10 | 50 |
| 92 | 5 | 10 | 50 |
| 94 | 5 | 10 | 50 |
| 96 | 5 | 10 | 50 |
| 98 | 5 | 10 | 50 |
| 100 | 5 | 10 | 50 |

OPTIONNAL STRAIN RELIEF



| Pin count | E (mm) |
|----------------|--------|
| 6 to 58 pins | 15 |
| 60 to 100 pins | 16.2 |

Bottom tray for Strain relief



| | | | | | |
|---|--|------------------------------|-----------------------|--|--------------------|
| | All Dimensions in mm Original Size DIN A3 | Scale 1:1 | Free size tol. | Ref. | |
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