

D

C

B

A



TECHNICALS FEATURES

MATERIALS

INSULATOR : Special PPS (Polyphenylene sulphide fibreglass filled thermoplastic) UL 94-V0

- Radiation resistance
- No humidity absorption
- Oxygen free

Note : PPS characteristics are recognized for space applications

FIXING HARDWARE :

- Jackscrew : Stainless steel

TECHNICAL FEATURES for 30 HP CONTACTS

MATERIAL

- **Body** : Copper alloy / Ni + Au 0.5µ
- **Retaining clip** : Beryllium alloy / Ni 3µ

MECHANICAL

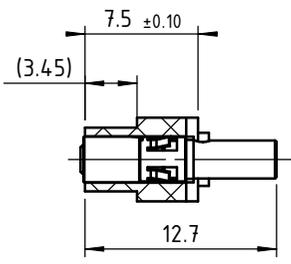
- **Endurance** : 500 cycles
- **Insertion force** : From 0.60 to 5N per contact
- **Extraction force** : From 0.50 to 2N per contact
- **Secure overlapping** : 1.30 mm
- **Contact replacement in insulator** : 5 cycles

ELECTRICAL

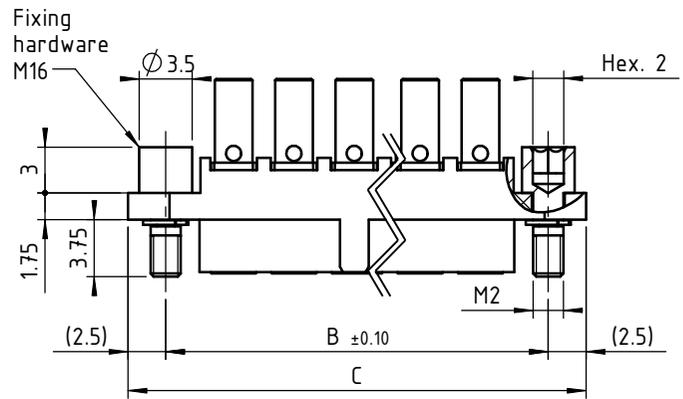
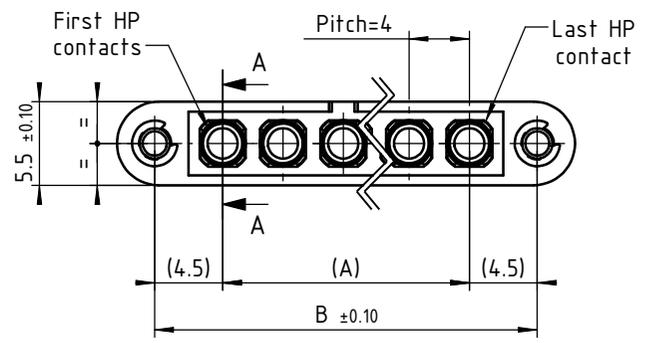
- **Intensity** : 10 A with AWG16
8 A with AWG18
5 A with AWG20
- **Contact resistance** : max. 6 mΩ
- **Maximum voltage (sea level)** : 1000V (RMS)
- **Operating voltage (sea level)** : 180 V AC/500 mA

ENVIRONMENTAL

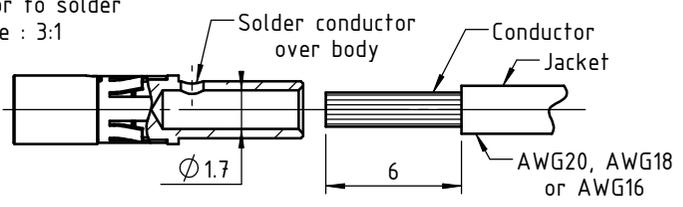
- **Temperature range** : From -60°C to +260°C
- **Vibration severity** : 0.75mm, 10 g RMS 6 hours long random with superimposed sinusoid. No intermitencies measured when using an H.S.L.I. (High Speed Logic Interrupt) detector with a trip threshold of 2 ns.
- **Shock severity** : 100g for 6 ms
- **Solvent resistance** : HcFc 141 BMGX (ATO/CHEM)
- **Salt spray test** : 96 hrs



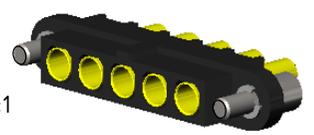
CUT A-A



HP contact 30-4310 to crimp or to solder Scale : 3:1



3D view scale : 1.5:1



HP contacts : crimping following cable instruction IC30HP02
Marking as referenced in the CMM catalogue page 12 & 13

CMM Series 220 FEMALE

| HP contacts number zz | Distance between axes | | Length in mm C |
|--------------------------|-----------------------|----|-------------------|
| | A | B | |
| 02 | 4 | 13 | 18 |
| 03 | 8 | 17 | 22 |
| 04 | 12 | 21 | 26 |
| 05 | 16 | 25 | 30 |
| 06 | 20 | 29 | 34 |
| 07 | 24 | 33 | 38 |
| 08 | 28 | 37 | 42 |
| 09 | 32 | 41 | 46 |
| 10 | 36 | 45 | 50 |
| 11 | 40 | 49 | 54 |
| 12 | 44 | 53 | 58 |
| 13 | 48 | 57 | 62 |
| 14 | 52 | 61 | 66 |
| 15 | 56 | 65 | 70 |

| Tools recommended | |
|---------------------------------|------------|
| HP series 30 contacts removal | 12368 |
| Daniels AF8 hand crimp tool | 16459 |
| Positioner for Daniels AF8 tool | C16460 |
| AWG16 crimp tool setting | Position 5 |
| AWG18 & 20 crimp tool setting | Position 4 |

| | | | | | |
|--|-----|----------|-------|---------|----------|
| | 2 | 25/11/10 | N.P. | A.V. | E.M. |
| | Iss | Date | Drawn | Checked | Approved |
| Item : Connector CMM220 female on cables, zz HP contacts 30-4310, M16 | | | | | |
| Folder : X:\Méthodes\Plans clients\Plans clients 2D\10 - CMM220\Connecteurs femelles\222E\222E00M16-00zz-4310_cl | | | | | |

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Catalogue Reference : **222E00M16-00zz-4310**

| | | | | | | |
|--|-------------------|------|-------|-----|------|-----|
| | General tolerance | ±0.2 | Scale | 2:1 | Page | 1/1 |
|--|-------------------|------|-------|-----|------|-----|

D

A4