

## TECHNICAL FEATURES for 30 HP CONTACTS

### MATERIAL

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

### MECHANICAL

- Endurance: 2500 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: 30 times

### ELECTRICAL

- Intensity: 10 A
- Contact resistance: max. 6 mΩ
- Maximum voltage (sea level): 1000V (RMS)
- Operating voltage (sea level): 180 V AC/500 mA

#### WIRES SPECIFICATION

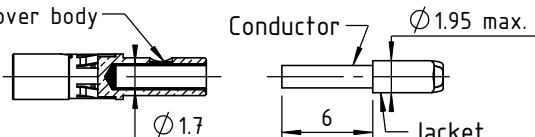
MIL-W-22759/11  
AWG16 Red  
Standing : 19x29  
Finished Diameter: 1.95 mm max. (0.076 inch)  
Conductor : Silver coated copper  
Insulation : Extruded PTFE  
Temperature Rating : 200°C  
Voltage Rating : 600 V

#### WIRES SPECIFICATION

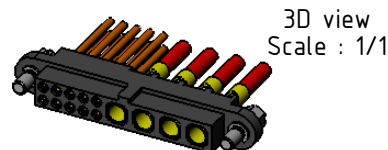
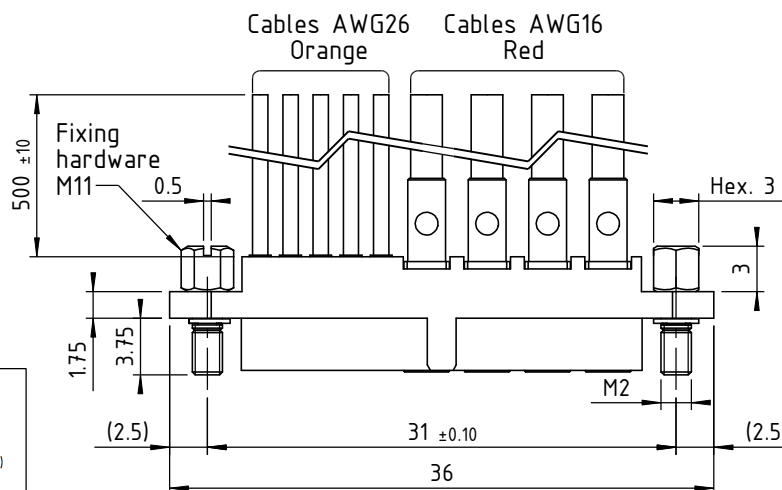
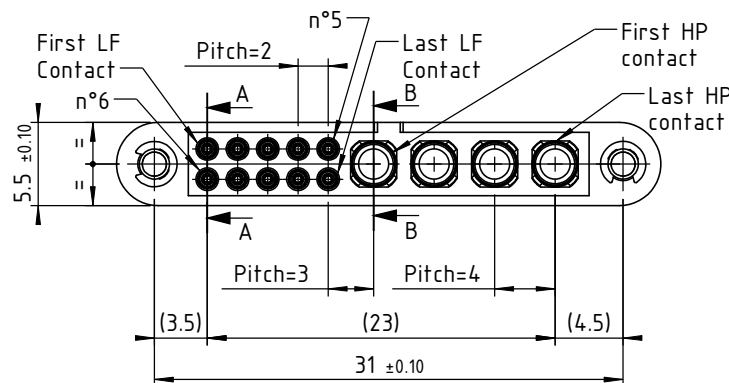
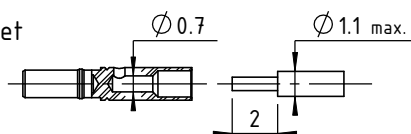
MIL-W-22759/11  
AWG26 Orange  
Standing : 19x38  
Finished Diameter : 1.1 mm max. (0.04 inch)  
Conductor : Silver coated copper  
Insulation : Extruded PTFE  
Temperature Rating : 200°C  
Voltage Rating : 600 V

HP contact  
30-4310 AWG16

Solder conductor  
over body



LF contact  
"S" AWG26  
scale 3 : 1



## TECHNICALS FEATURES

### MATERIAL

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

- Radiation resistance
- No humidity absorption
- Oxygen free

Note : PPS characteristics are recognized for space applications

### CRIMPING SIGNAL CONTACTS :

Female :

- Body: Copper alloy / Ni + Au 0.2μ
- Socket body: beryllium copper / Ni + Au 1.25μ

### FIXING HARDWARE :

- Jackscrew : Stainless steel

### ELECTRICAL for LF Contacts

- All contacts: 3 A max. @ 25°C, 2.2 A max. @ 85°C
- Working voltage (sea level): Tested at 800 V DC
- Proof voltage: Tested at 1200 V DC
- Contact resistance (initially): max. 10 mΩ
- Insulation resistance: 1000 MΩ min

### MECHANICAL for LF Contacts

- Mechanical operations: 2500 cycles min.
- Contact insertion and withdrawal force: 2 N max. / 0.2 N min. per contact
- Contact retention in insulator: 10 N min.
- Contact replacement in insulator: 3 cycles

### ENVIRONMENTAL

- Temperature range: From -60°C to +260°C
- Vibration severity: 0.75mm, 10 g RMS 6 hours long random with superimposed sinusoid. No intermittencies 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 (ATOCHEM) solvent
- Salt spray test: 96 hrs
- Humidity test: 56 days @ 90% humidity

Tooling recommended	
Désignation	Part number
HP series 30 contacts removal	12368
LF contacts insertion & withdrawal Tool	C12935
Daniels MH800 Tool and Positioner	C14925 (setting 6)

Crimping referee to cable instruction ICLF01 and page 92 from NICOMATIC catalogue  
Marking referee page 12-13 of CMM catalogue

 <a href="http://www.nicomatic.com">www.nicomatic.com</a> Mail : <a href="mailto:nicomatic@nicomatic.fr">nicomatic@nicomatic.fr</a> Tel : +33 (0)4.50.36.13.85	2	11/09/08	C.G.	E.M.	D.Z.
	Iss	Date	Drawn	Checked	Approved
Item : Female harness 222S10M11-0004-4310 Lg 500mm, connector CMM220 F crimp, 10 LF contacts, 4 HP contacts 30-4310, M11					

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Catalogue  
Reference : HB30001D3A-J2A500

Folder : X:\Méthodes\Plans clients\Plans clients 2D\17 - Câblage\2 - Câblage avec contacts spéciaux\HB30001D3A-J2A500\_cl

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