



**TECHNICALS FEATURES**

**MATERIAL**

**INSULATOR** : Special PPS (Polyphenylene Sulfide 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** : 500 cycles min. up to 2500.
- **Contact insertion and withdrawal force** : 2 N max. / 0.2 N min.
- **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

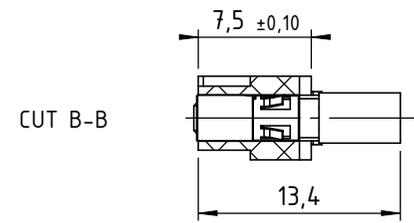
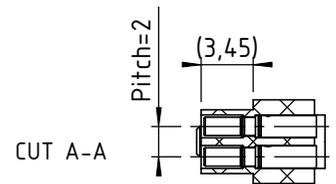
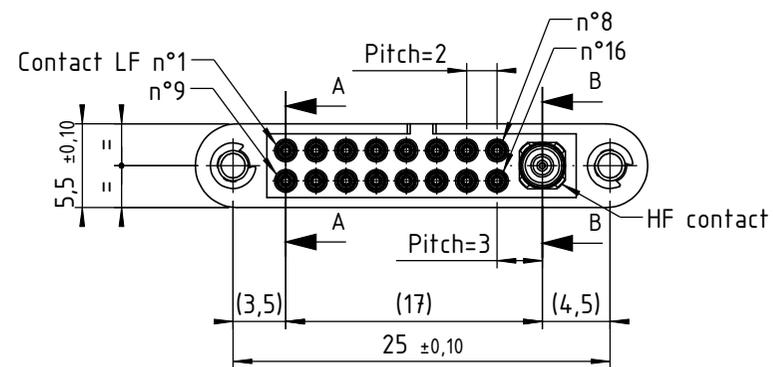
3D view  
scale : 1.5:1



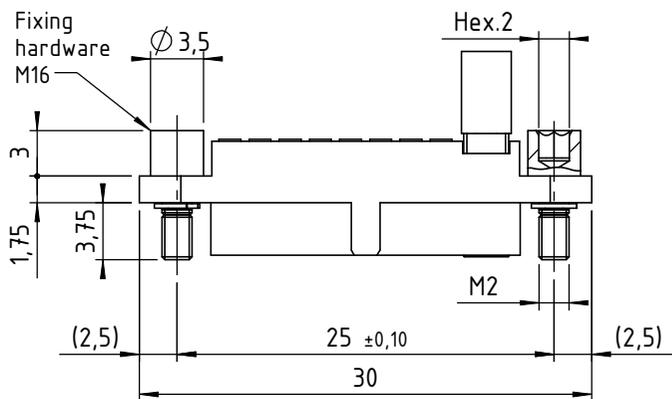
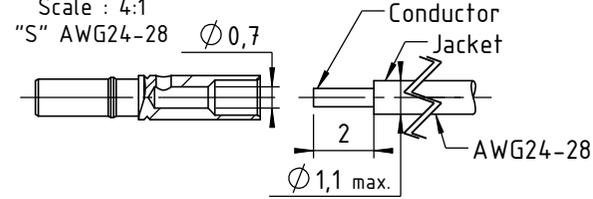
Contact HF30 : Crimping following cable instruction IC30HF02  
Contact LF : Crimping following cable instruction ICLF01  
Marking as referenced in the CMM catalogue pages 12 & 13

2	01/12/09	N.P.	H.T.	D.Z.
Iss	Date	Drawn	Checked	Approved

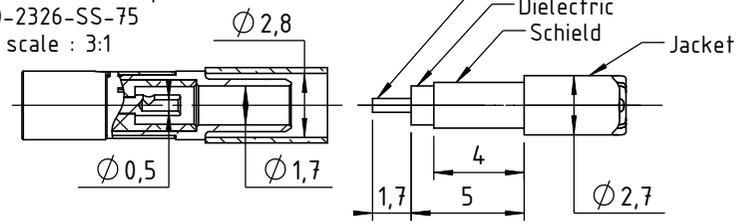
**Item : Connector CMM220 female on cable AWG 24-28  
16 LF contacts, 1 HF contact 30-2326-SS-75, M16**



LF contact to crimp or to solder  
Scale : 4:1



HF contact to crimp  
30-2326-SS-75  
scale : 3:1



**TECHNICAL FEATURES for HF COAXIAL CONTACT**

**MATERIAL**

- **Body** : Copper alloy / Ni + Au 0.5µ
- **Inner contact** : Copper alloy / Ni + Au 0.75µ
- **Insulator** : PTFE
- **Retaining clip** : Do not complies with radiation Beryllium alloy / Ni 3µ

**MECHANICAL**

- **Endurance** : 500 cycles up to 2500.
- **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 cycles

**ELECTRICAL**

- **Impedance** : 50Ω
- **Insulator resistance** : 10<sup>8</sup> mΩ / 250V (RMS)
- **SWR (Stationary Wave Rate)** : < 1.05 + 0.04 F (GHz)
- **Frequency range** : 6 GHz (Depending o cable)
- **Insulation between 2 contacts** : -100dB (Depending on cable)

Tools recommended		
contacts LF	LF contacts insertion & withdrawal tool	C12935
	Recommended hand crimp tool	MH800
	Recommended positionner K1692	C12929
	AWG24 crimp tool setting	Position 7
	AWG26 & AWG28 crimp tool setting	Position 6
contacts HF-30	Recommended positionner K1131	K1131
	Conductor crimp tool setting Ø 0.30	Position 2 & 3
	HF series contacts removal	12368
	Recommended hand crimp tool HF contacts	13858
	Crimp die for daniels HX3 HF contacts	C13847

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Folder : X:\Méthodes\Plans clients\Plans clients 2D\10 - CMM220\Connecteurs femelles\222S\222S16M16-0001-2326SS-75\_cl

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**Catalogue Reference : 222S16M16-0001-2326SS-75**

General tolerance	±0.2	Scale	2:1	Page	1/1
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4

3

2

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4

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