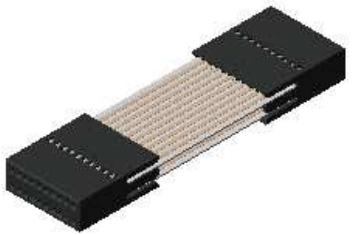
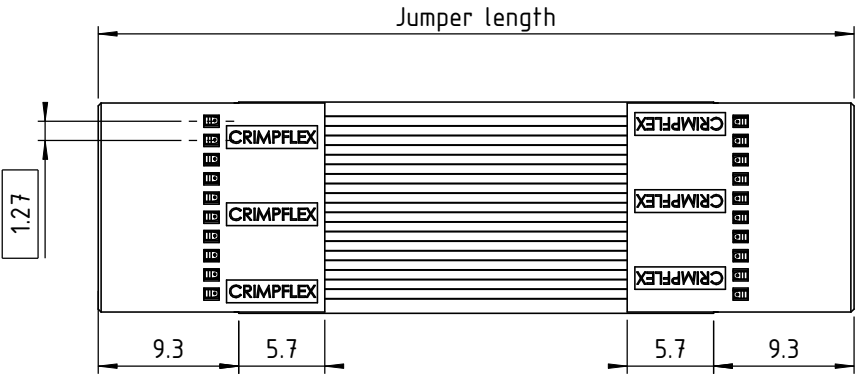
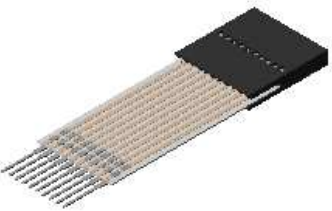
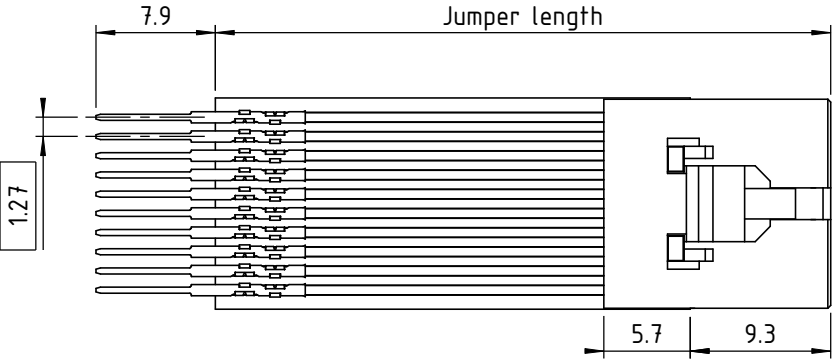
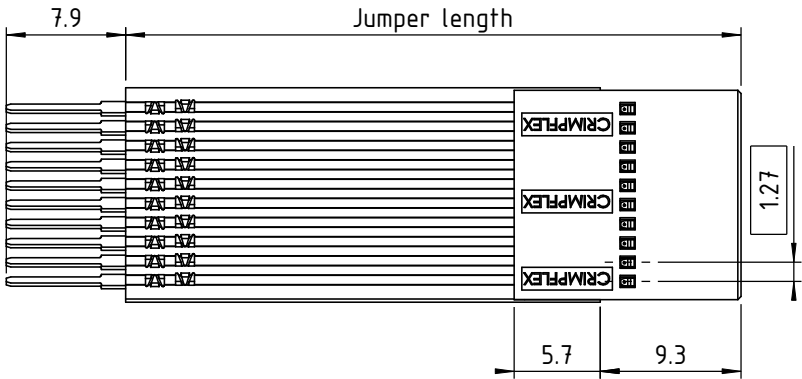
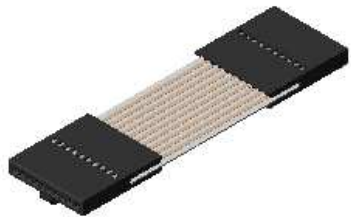
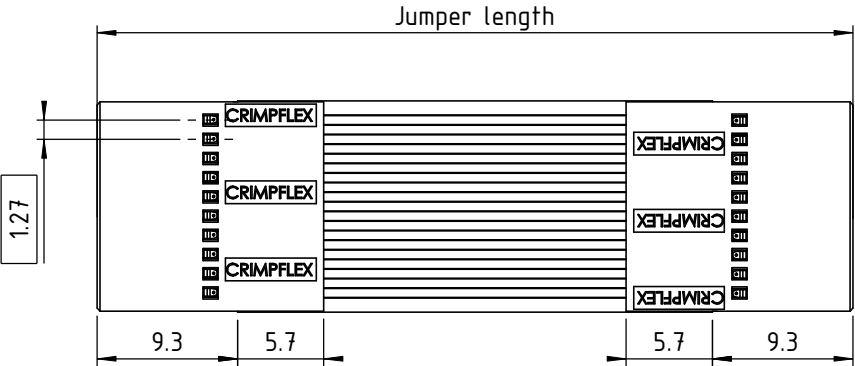


Standard 1.27mm female / female double jumper configuration (Example:127PW20D0054-F14F14)

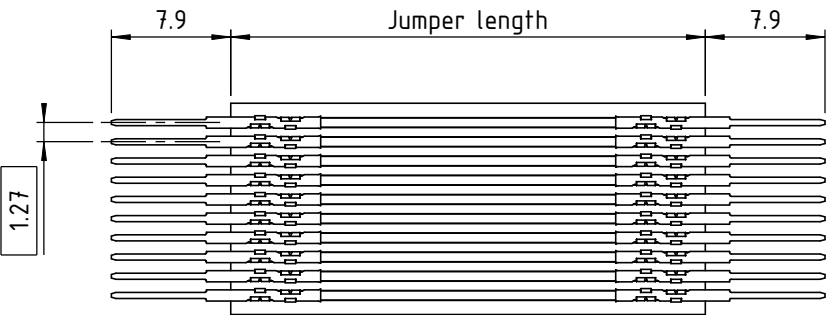
Configuration 1
Standard 1.27mm male / female jumper (Example:127PW10D0045-S1F1J)



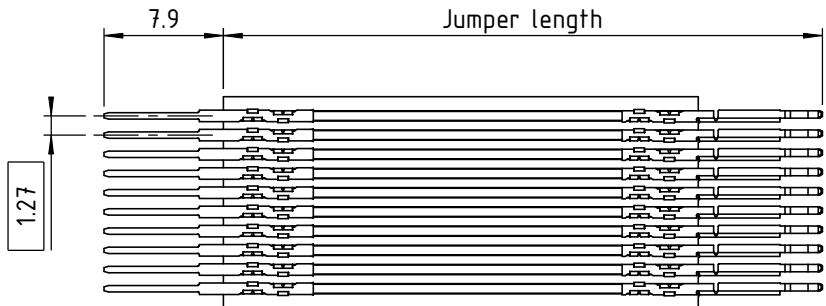
Configuration 2
Standard 1.27mm female / female jumper (Example:127PW10D0054-F1JF1J)



Configuration 3
Standard 1.27mm male / male jumper (Example:127PW10D0036-S1S1)



Configuration 4
Standard 1.27mm male / female without housing jumper (Example:127PW10D0044-S1F1)



TECHNICAL DATA

MATERIAL :

- Contact : Phosphor bronze
- Housing : Thermoplastic with glass fiber Classified UL 94 V0 Black.
- Cable : White polyester classified UL 2643 or 2690

PLATING

- Contact P/N XXXXX-12 : tin plated (thickness : Ni 1 to 2µ + Sn pur brillant 3 to 5µ)
- Contact P/N XXXXX-32 : gold plated (thickness : Ni 1 to 2µ + Sn pur brillant 3 to 5µ + Au 0.15µ)

MECHANICAL SPECIFICATIONS FOR THE CONTACT

- Max. mating force per contact : 0.6 N
- Min. unmating force per contact : 0.4 N
- Tensile strength : 50 N
- Retention force : 19 N

ELECTRICAL SPECIFICATIONS FOR THE CONTACT

- Dielectric withstanding voltage : 900 Vrms
- Rated voltage : 300 Vrms
- Maximum current per contact : 3 A
- Contact resistance : 15 mOhms max. (after 50 cycles)

THERMAL SPECIFICATIONS

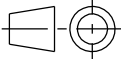
- Operating temperature : -55°C to +105°C



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Web : www.nicomatic.com

Designation : Generic drawing
standard 1.27mm jumpers

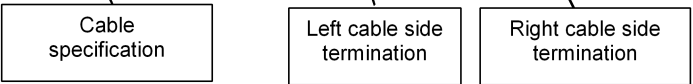
Réf. Catalogue /
Catalogue Reference

c	23/09/09	OM 09 033	C.G.	J.R.	D.Z.	
b	06/03/09	OM 09 033	C.G.	E.M.	D.Z.	
a	18/02/09	Edition originale	C.G.	E.M.	D.Z.	
Ind.	Date	Modification		Drawn	Checked	Approved
S			Echelle/Scale 2:1			
	Tolérance générale / <i>General tolerance</i> ±0.2					
	Repertoire / <i>Folder</i> X:\Méthodes\01 - Crimpflex\09 - Limandes 1,27mm\Plan générique\					
N° Plan / <i>Drawing N°</i>		Standard 1.27mm jumper			Page 1/4	A3

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Part numbering example

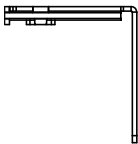
127 PW 14 D 0305 - S1^{B K}_{C W} F2 H^{B K}_{C W} (R)



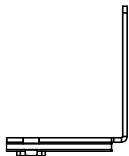
1. Cable specification
- 5 blocks are defined to determine the cable specification
- **127** : Cable pitch (1.27mm)
 - **PW** : Cable style – Standard White Polyester
 - **14** : Number of conductors
Note for a double jumper :
The number of conductors always represents the total number of conductors. Eg. for a jumper with 1 double row housing – M4F20 for example the number of conductors is 20 and the cable to be a 10 conductors cable
 - **D** : Conductor size (0.076 mm x 0.66 mm)
 - **0305** : Length in mm (305 mm) measured from end to end
(This length is used to determine the cable length, see explanation in 4.)
 - **Standard double jumper** : left and right terminations are crimped in the same direction (refer to 3D pictures on the other side of this file).
If you need to crimp in the opposite direction, then the part number will be specific.
2. Left cable side
- 4 blocks are defined to determine the left section of the cable
- **S1** : Contact selected on the left side of the cable (refer to the table with contacts on the right)
 - **H** : Housing selected on the left side of the cable (none selected in our example left blank)
 - **B** : Bending of the contact to the crimping direction (if no bending space left blank) **(only for male contact)**
 - Or
 - **C** : Bending of the contact to the opposite side to the crimping direction (if no bending space left blank) **(only for male contact)**
 - **K** : Polyimide insulator addition on the left side of the cable (if no addition space left blank) **(only for male contact)**
 - Or
 - **W** : Polyester insulator addition on the left side of the cable (if no addition space left blank) **(only for male contact)**
3. Right cable side
- 5 blocks are defined to determine the right section of the cable
- **F2** : Contact selected on the right side of the cable (refer to the table with contacts on the right)
 - **H** : Housing selected on the right side of the cable (refer to the table with housings on the right)
 - **B** : Bending of the contact to the crimping direction (if no bending space left blank) **(only for male contact)**
 - Or
 - **C** : Bending of the contact to the opposite side to the crimping direction (if no bending space left blank) **(only for male contact)**
 - **K** : Polyimide insulator addition on the right side of the cable (if no addition space left blank) **(only for male contact)**
 - Or
 - **W** : Polyester insulator addition on the right side of the cable (if no addition space left blank) **(only for male contact)**
 - **R** : Crimping on the opposite side (if crimping is done on the same side as on the left section of the cable, then space left in blank)
4. Cable length
- These configurations allow to measure the cable length L in function of the number of housing N :
- | | | |
|-----------------------------------|------------|---|
| Configuration (1) Male / Female | 1 housing | N=1 |
| Configuration (2) Female / Female | 2 housings | N=2 |
| Configuration (3) Male / Male | 0 housing | N=0 |
| Configuration (4) Female / Male | 0 housing | N=0 but we retrieve 9.3 mm for the cable housing cut to be made with the female contact |
- The L cable cut length is determined as follows :
L = Jumper length - N x 9.3
- In our example : Jumper length = 305 et N = 1
Cable cut length : L = 305 - (1 x 9.3) = 295.7
- Therefore, we need to cut the cable with a length of 295.7mm to get a jumper length of 305mm.
- Minimum Length :
- | | | |
|--------|---------------------|--------------------|
| If N=1 | cable cut length=20 | jumper length=29.3 |
| If N=2 | cable cut length=20 | jumper length=38.6 |
| If N=0 | cable cut length=20 | jumper length=20 |
- Tolerance for the cable cut : ± 1.5mm for a total length under 501mm
± 3mm for a total length between 501mm to 900mm
± 0.5% of length for a total length over 900mm

Housing table	Code	Housing P/N
	H	M0F
	J	M0J
	T	M0JR
	4	M4F
	M	M4J

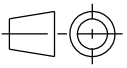
Contacts table	Code	Contact P/N	Type contact	Code	Contact P/N	Type contact
	F1	16068-12	Female	S1	16069-12	Male
	F2	16068-32	Female	S2	16069-32	Male



B : Bending to the crimping direction



C : Bending to the opposite side

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		b	06/03/09	OM 09 033	C.G.	E.M.	D.Z.
		a	18/02/09	Edition originale	C.G.	E.M.	D.Z.
		Ind.	Date	Modification	Drawn	Checked	Approved
Designation : <i>Generic drawing standard 1.27mm jumpers</i>					Echelle/Scale 2:1	Tolérance générale / <i>General tolerance</i> ±0.2	
			Repertoire / Folder X:\Méthodes\01 - Crimpflex\09 - Limandes 1,27mm\Plan générique\				
Réf. Catalogue / Catalogue Reference			N° Plan / Drawing N° Standard 1.27mm jumper			Page 2/4	A3