

Robotique Series

- **Receptacle, plug, cable connecting plug**
- **Locking** : Coupling of the plug is provided by a knurled ring which screws on to the threaded shell of the receptacle.
- **Protection** : IP 50 to IP 54 with potting compound into the shell and gasket under receptacle. IP 65 : 17contacts.
- **Contacts** : 3 to 37 contacts : Ø1mm - Ø1,6mm - Ø2,4mm crimping or soldering type contacts.
- **Max current rating** : 7A Ø1mm - 15A Ø1,6mm 30A Ø2,4mm - in consideration of the number of contacts carrying the current, their diameters, and the temperature increase which is permissible.

- **Contact resistance between pin and socket**
<0.0020Ω Ø1mm - <0.0015Ω Ø1,6mm - <0.0010Ω Ø2,4mm
- **Flashover voltage** : at (20°C) 68°F, at sea level greater
Ø1mm >2000 V eff
Ø1,6mm >2500 V eff
Ø2,4mm >2500 V eff
- **Insulation resistance** : >5000 MΩ
- **Operating temperature range** : - 40°C to +100°C (500 hours at +125°C).
- **Raw material** : male and female contacts : Brass with gold finish.
body: light metal alloy with nickel finish.
- **Max, wire cross section area** :
0,93 mm² Ø1mm - 1,93 mm² Ø1,6mm - 3,18 mm² Ø2,4mm.



Part numbers : Pin insert receptacles, socket insert plugs and cable connecting plugs, pin insert

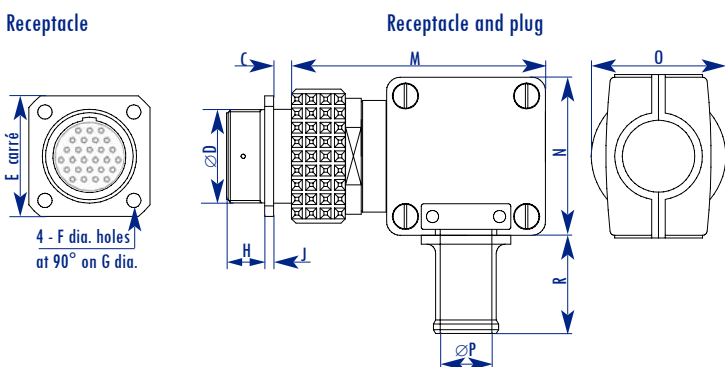
| Shell size | Number of contacts | Ø of contacts | receptacle pin insert **Type normal | receptacle pin insert **Type 03 | Socket insert plug **Type normal | Socket insert plug **Type 03 | Cable connecting plug, pin insert Type normal | Cable connecting plug, pin insert Type 03 | Cable clamp | Gaskets for receptacle | Adjustable crimping tool |
|------------|--------------------|-----------------------------|--|------------------------------------|-------------------------------------|---------------------------------|--|--|-------------|------------------------|---|
| 1 | 12 | Ø1mm | 637 012 506 | - | 638 072 006 | - | 639 072 506 | - | 530 115 006 | 536 945 006 | 579 481 006 |
| 1 | 19 | | 637 019 506 | 637 019 536 | 638 079 506 | 638 079 536 | 639 079 506 | 639 079 536 | 530 115 006 | 536 945 006 | Réglage: Ø1mm rouge Ø1.6mm bleu Ø2.4mm jaune |
| 2 | 27 | | 637 027 506 | - | 638 087 506 | - | - | - | 530 145 006 | 536 946 006 | Combined insertion and extraction tool for contacts* |
| 2 | 37 | | 637 037 506 | - | 638 097 506 | - | - | - | 530 145 006 | 536 946 006 | |
| 1 | 3 | Ø1.6mm | - | - | - | - | - | - | 530 115 006 | 536 945 006 | Ø1mm 597 104 006 Ø1.6mm 577 454 006 Ø2.4mm 577 458 006 |
| 1 | 4 | | - | - | - | - | - | - | 530 115 006 | 536 945 006 | |
| 1 | 7 | | - | - | 638 774 506 | - | - | - | 530 115 006 | 536 945 006 | |
| 2 | 12 | Ø2.4mm | - | - | - | - | - | - | 530 145 006 | 536 946 006 | 17 cts: Ø1mm 597 104 006 Ø2.4mm même |
| 1 | 3 | | - | - | - | - | - | - | 530 115 006 | 536 945 006 | |
| 1 | 4 | - | 637 404 506 | - | 638 474 506 | - | - | - | 530 115 006 | 536 945 006 | |
| 2 | 7 | - | - | - | - | - | - | - | 530 145 006 | 536 946 006 | |
| 2 | 17 | 13 cts Ø1mm 4 cts Ø2,4mm | 637 017 506 | - | 638 017 566 | - | 639 017 566 | - | 530 145 006 | 536 946 006 | |

Part numbers : Socket insert receptacles, pin insert plugs and cable connecting plugs, socket insert

| Shell size | Number of contacts | Ø of contacts | receptacle Socket insert **Type normal | receptacle Socket insert **Type 03 | Pin insert plug **Type normal | Pin insert plug **Type 03 | Cable connecting plug, socket insert Type normal | Cable connecting plug, socket insert Type 03 | Cable clamp | Gaskets for receptacle | Adjustable crimping tool |
|------------|--------------------|-----------------------------|---|---------------------------------------|----------------------------------|------------------------------|---|---|-------------|------------------------|---|
| 1 | 12 | Ø1mm | 637 112 506 | - | 638 172 506 | - | 639 172 506 | 639 172 536 | 530 115 006 | 536 945 006 | 579 481 006 |
| 1 | 19 | | 637 119 506 | 637 119 536 | 638 179 506 | 638 179 536 | - | 639 179 536 | 530 115 006 | 536 945 006 | Réglage: Ø1mm rouge Ø1.6mm bleu Ø2.4mm jaune |
| 2 | 27 | | 637 127 506 | - | 638 187 506 | - | - | - | 530 145 006 | 536 946 006 | Combined insertion and extraction tool for contacts* |
| 2 | 37 | | 637 137 506 | - | 638 197 506 | - | - | - | 530 145 006 | 536 946 006 | |
| 1 | 3 | Ø1.6mm | - | - | - | - | - | - | 530 115 006 | 536 945 006 | Ø1mm 597 104 006 Ø1.6mm 577 454 006 Ø2.4mm 577 458 006 |
| 1 | 4 | | - | - | - | - | - | - | 530 115 006 | 536 945 006 | |
| 1 | 7 | | - | - | 638 717 506 | - | - | - | 530 115 006 | 536 945 006 | |
| 2 | 12 | Ø2.4mm | - | - | - | - | - | - | 530 145 006 | 536 946 006 | 17 cts: Ø1mm 597 104 006 Ø2.4mm même |
| 1 | 3 | | - | - | - | - | - | - | 530 115 006 | 536 945 006 | |
| 1 | 4 | - | 637 504 506 | - | 638 574 506 | - | - | - | 530 115 006 | 536 945 006 | |
| 2 | 7 | - | - | - | - | - | - | - | 530 145 006 | 536 946 006 | |
| 2 | 17 | 13 cts Ø1mm 4 cts Ø2,4mm | 637 117 506 | - | 638 117 566 | - | 639 117 566 | - | 530 145 006 | 536 946 006 | |

***Note** : tool, part. No 597 104 006 Ø1mm and 577 454 006 Ø1,6mm and 577 458 006 Ø2,4mm is **necessary**, for insertion and extraction contacts.
 - **Accessories** : *Protection caps receptacle* : Shell size 1 Part numbers 637 820 006 - Shell size 2 Part numbers 637 825 006, *Protection cap plug* : Shell size 1 Part numbers 638 820 006 - Shell size 2 Part numbers 638 825 006.
 - The contact No.1, establishing an electrical liaison before the three other contacts and breaking it after they are uncoupled, can be used for earthing purposes.
 ** **Polarisation** : listed under different Part Nos, certain types of connectors are available with two alternative keying dispositions. This feature will prevent cross plugging adjacent connectors with similar contact arrangement.

Dimensions :



| Shell size | Assemblage | Receptacle - Plug - Cable connecting plug | | | | | | | | | | Cable clamp |
|------------|------------|---|----|----|-----|----|------|---|------|------|----|-------------|
| | | B | C | D | E | F | G | H | J | M | N | |
| 1 | 104 | 4 | 21 | 27 | 3,2 | 28 | 8,5 | 2 | 56,6 | 35,4 | 30 | 22 |
| 2 | 112 | 4 | 27 | 32 | 3,2 | 34 | 12,5 | 2 | 62,8 | 46 | 36 | 30 |

