

**983 series**  
EN 2997, ESC10, BACC63 Specifications

# Summary / Sommaire

|                                |       |                             |       |
|--------------------------------|-------|-----------------------------|-------|
| Introduction                   | 2     | Présentation                | 3     |
| Synoptic                       | 4     | Synoptique                  | 4     |
| Technical characteristics      | 5     | Caractéristiques techniques | 6     |
| Part numbering system          | 7     | Système de référence        | 7     |
| Key orientation                | 8     | Détrompage angulaire        | 8     |
| Arrangements                   | 8-9   | Arrangements                | 8-9   |
| Receptacles                    | 10    | Embases                     | 10    |
| Plugs                          | 11    | Fiches                      | 11    |
| Hermetic receptacles           | 12-13 | Embases hermétiques         | 12-13 |
| Mating and unmating dimensions | 14-15 | Accouplements               | 14-15 |
| Accessories                    | 16    | Accessoires                 | 16    |
| Protective covers              | 17    | Bouchons de protection      | 17    |
| Contacts and tools             | 18-21 | Contacts et outillages      | 18-21 |

Overall dimensions and characteristics are given for indication guidance only.  
DEUTSCH reserves the right to modify them for production improvement reasons  
(Proprietary products only).

Les côtes d'encombrements ainsi que les caractéristiques ne sont données qu'à titre indicatif.  
DEUTSCH se réserve le droit de les modifier dans le souci d'améliorer ses fabrications  
(produits propriétaires seulement).

# Introduction

Electrical connectors designed for :

- Engines and boosters
- Harsh environment area

Electrical connector threaded coupling with self locking (all connectors).

Those connector series are in accordance with the standards EN 2997, MIL-DTL-83723 Series III, NF-L 54143 and SAE/AS 39029, EN 3155 and ESC30 for electrical contacts. As per specifications SBAC ESC10 and Boeing BACC63.

The following improvements have been brought to the standard MIL-DTL-83723 :

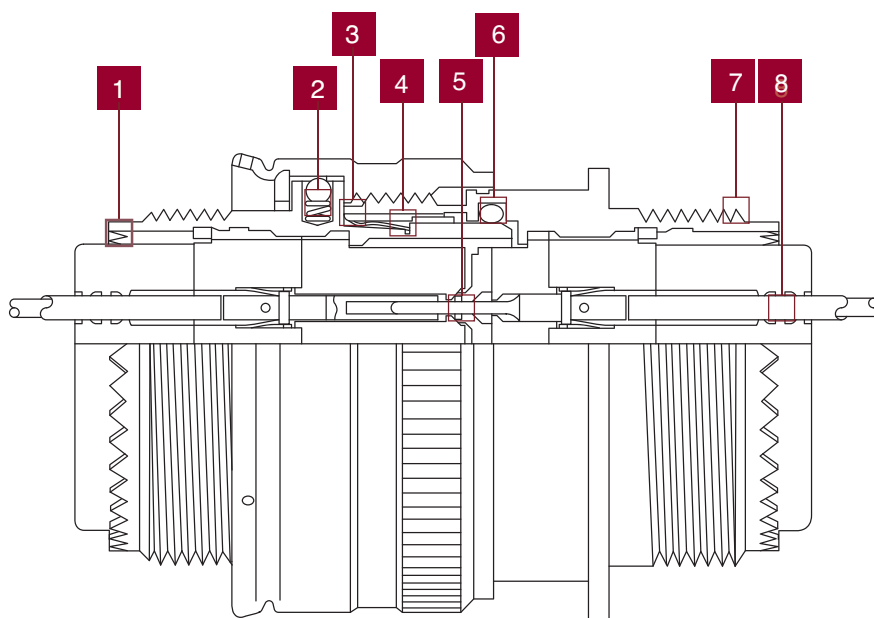
- Shell to shell metal bottoming (Plug and receptacle mated).
- Anti rotation system on 360° by tightening.
- Self locking system all plug.
- Reduced elastomer barriers to use new and old generations of wires.

All Deutsch 983 electrical connectors series are intermatable and interchangeable with connectors in accordance with MIL-DTL-83723 series III, NF-L 54143 and the Deutsch connectors 83730 series.

A large accessories range completes the 983 connector series :

- Backnut.
- Straight cable clamp.
- Elbowed cable clamp
- Potting cup.

For any informations please consult us.



- 1** Connector's rear part fitted with a teeth anti-rotation system (360°) assuming an effective tightening and clamping of accessories / EMI shielding improvement
- 2** Self locking control
- 3** Shell to shell metal bottoming
- 4** RFI grounding fingers for electrical continuity between plug and receptacle
- 5** Individual contact sealing at coupling stage by compression of elastomer conical risers on hard insert
- 6** Interface sealing assumed by H.F. gasket
- 7** Shell/insert assumed by potting
- 8** Sealing on each wire thanks to several sealing barriers

# Présentation

Connecteur électrique conçu pour utilisation :

- Sur les moteurs et propulseurs
- Dans les zones à environnement sévères.

Connecteur électrique à verrouillage à vis par bague fileté, auto-freinée, à sens prépondérant au verrouillage.  
(Tous modèles).

Cette série de connecteurs est issue des normes EN 2997, MIL-DTL-83723 Série III, NF-L 54143 et des normes SAE/AS 39029 , EN 3155 et ESC30 pour les contacts électriques, et répond aux spécifications SBAC ESC10 et Boeing BACC63.

Les améliorations suivantes ont été apportées par rapport à la norme MIL-DTL-83723 :

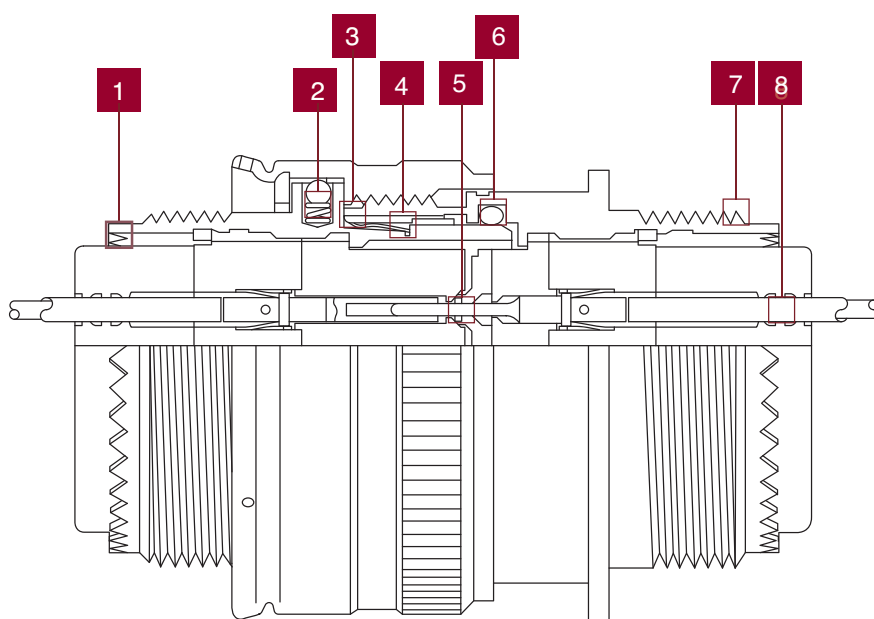
- Butée mécanique à l'accouplement.
- Denture sur 360° à l'arrière de tous les boîtiers.
- Système auto-freinant à prépondérance sur toutes les fiches.
- Réduction des barrières d'étanchéité pour utilisation des câbles d'ancienne et de nouvelle générations.

Tous les connecteurs DEUTSCH de la Série 983 sont interchangeables et intermariables avec les connecteurs des normes MIL-DTL-83723 série III, NF-L 54143 et avec les connecteurs DEUTSCH Série 83730.

Une large gamme d'accessoires complète la famille de connecteurs 983 :

- écrou arrière
- serre câble droit
- serre câble coudé
- raccord potting etc...

Consultez-nous pour de plus amples renseignements.



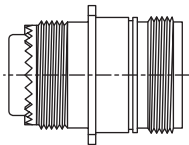
- 1** Système anti-rotation par denture sur 360° assurant un serrage et un blocage efficaces des accessoires, plus une amélioration de la protection EMI.
- 2** Système d'auto-freinage à sens préférentiel
- 3** Blocage mécanique en fin de verrouillage
- 4** Continuité électrique entre fiche et embase par couronne de masse (RFI)
- 5** Étanchéité individuelle des contacts par compression des cheminées en élastomère sur isolant dur
- 6** Étanchéité entre fiche et embase par joint périphérique
- 7** Étanchéité entre boîtier et isolant par opération de potting silicone
- 8** Étanchéité garantie sur chaque câble grâce à plusieurs barrières d'étanchéité.

Accessories  
Accessoires

Receptacles  
Embases

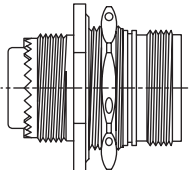
Sealed square flange receptacle  
Embase étanche collerette carrée

TYPE 0



Sealed jam-nut mounting receptacle  
Embase étanche collerette ronde

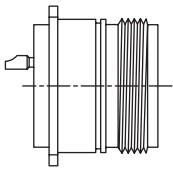
TYPE 7



Hermetic receptacles  
Embases hermétiques

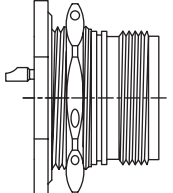
Hermetic square flange receptacle  
Embase hermétique collerette carrée

TYPE 0



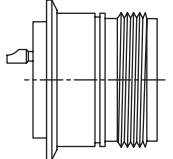
Hermetic jam-nut mounting receptacle  
Embase hermétique collerette ronde

TYPE 7



Hermetic solder receptacle  
Embase hermétique à souder

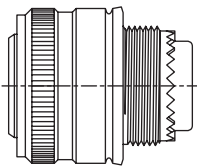
TYPE 1



Plugs  
Fiches

Sealed plug  
Fiche étanche

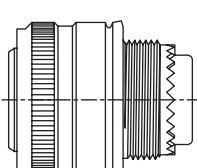
TYPE 6



W, R, K, KE

Sealed plug with RFI fingers  
Fiche étanche avec bague de  
continuité de masse

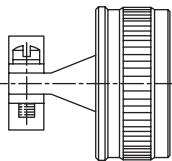
TYPE 6



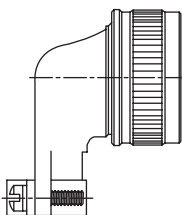
WS, RS, S, SE

Accessories  
Accessoires

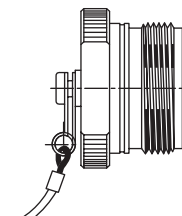
Nut  
Écrou arrière



Straight cable clamp  
Serre câble droit

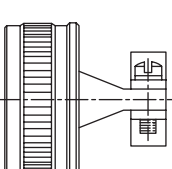


Elbowed cable clamp  
Serre câble coudé

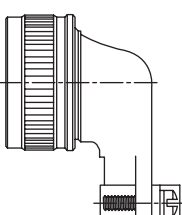


Protective cap for plug  
Bouchon de protection  
pour fiche

Nut  
Écrou arrière



Straight cable clamp  
Serre câble droit



Elbowed cable clamp  
Serre câble coudé



Protective cap for plug  
Bouchon de protection  
pour fiche

PLUGS AND RECEPTACLES MATING POSSIBILITIES  
POSSIBILITÉS D'ASSOCIATIONS DES FICHES ET EMBASES

| Temperature class / Classe de température | 175° C                | 200° C         | 200° C                       | 260° C Cyclic / Cyclique     |
|-------------------------------------------|-----------------------|----------------|------------------------------|------------------------------|
| Shells material / Matière boîtiers        | Aluminium             | Aluminium      | Stainless steel / Acier inox | Stainless steel / Acier inox |
| Models / Modèles                          | Plugs / Fiches        |                |                              |                              |
|                                           | Receptacles / Embases |                |                              |                              |
|                                           |                       | W / WS or/ou A | R or/ou RS                   | K or/ou S                    |
|                                           |                       | WS or/ou A     | RS                           | S or/ou Y                    |
|                                           |                       |                |                              | SE or/ou KE                  |
|                                           |                       |                |                              | SE or/ou YE                  |

# 983 Technical Characteristics

## Mechanical

|                                                                              |          |                                          | Models of connectors |   |    |   |    |   |   |   |    |    |    |
|------------------------------------------------------------------------------|----------|------------------------------------------|----------------------|---|----|---|----|---|---|---|----|----|----|
| Shell                                                                        | Material |                                          | A                    | W | WS | R | RS | K | S | Y | KE | SE | YE |
|                                                                              |          | Stainless steel                          |                      |   |    |   |    | ● | ● | ● | ●  | ●  | ●  |
|                                                                              |          | Aluminium nickel                         |                      |   |    | ● | ●  |   |   |   |    |    |    |
|                                                                              |          | Aluminium olive drab cadmium             |                      | ● | ●  |   |    |   |   |   |    |    |    |
|                                                                              |          | Aluminium black anodize                  | ●                    |   |    |   |    |   |   |   |    |    |    |
| Insert                                                                       | Material | Thermo-setting                           | ●                    | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |
|                                                                              |          | Silicone                                 | ●                    | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |
|                                                                              |          | Sintered glass                           |                      |   |    |   |    |   |   |   | ●  |    | ●  |
| Contacts                                                                     | Type     | Crimp type, removable, gold plating      | ●                    | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |
|                                                                              |          | Solder type, non removable, gold plating |                      |   |    |   |    |   |   |   | ●  |    | ●  |
| Version                                                                      |          | Sealed                                   | ●                    | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |
|                                                                              |          | Hermetic                                 |                      |   |    |   |    |   |   |   | ●  |    | ●  |
| Temperature range                                                            |          | 175° C                                   |                      | ● | ●  |   |    |   |   |   |    |    |    |
|                                                                              |          | 200° C                                   | ●                    |   |    | ● | ●  | ● | ● | ● |    |    |    |
|                                                                              |          | 260° C cyclic                            |                      |   |    |   |    |   |   |   |    | ●  | ●  |
| Fire resistance as per EN2591-318                                            |          |                                          |                      |   |    |   |    | ● | ● |   | ●  | ●  |    |
| Connector with self locking control                                          |          |                                          | ●                    | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |
| Mechanical endurance:                                                        |          | 250 operations                           | ●                    | ● | ●  | ● | ●  |   |   |   |    |    |    |
|                                                                              |          | 500 operations                           |                      |   |    |   |    | ● | ● | ● | ●  | ●  | ●  |
| Shielding                                                                    |          | RFI on plug                              |                      |   | ●  |   | ●  |   | ● |   |    | ●  |    |
| Corrosion (salt spray) :<br>as per EN 2591-307                               |          | 48 hours                                 | ●                    |   |    | ● | ●  |   |   |   |    |    |    |
|                                                                              |          | 500 hours                                |                      | ● | ●  |   |    | ● | ● | ● | ●  | ●  | ●  |
| Vibrations as per EN 2591 test 403, method B<br>(10 to 2000 Hz along 2 axes) |          |                                          | ●                    | ● | ●  | ● | ●  | ● | ● | ● | ●  | ●  | ●  |
| Shocks as per EN2591-402                                                     |          | 300g / 3 ms                              | ●                    | ● | ●  | ● | ●  | ● | ● | ● | ●  | ●  | ●  |
| Sealed                                                                       |          | 16.10 <sup>-6</sup> m³/h / 100 kPa       | ●                    | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |

## Electrical

|                                         |                                      |                                         |
|-----------------------------------------|--------------------------------------|-----------------------------------------|
| Insulation resistance                   |                                      | > to 5000 MΩ at 260° C and 65% R.H      |
| Dielectric withstanding voltage         | At sea level                         | 1500 Vrms 50 Hz mated connectors        |
|                                         | At 15 000 meters altitude            | 1000 Vrms 50 Hz mated connectors        |
|                                         | At 30 000 meters altitude            | 200 Vrms 50 Hz unmated connectors       |
| Shielding efficiency as per EN 2591-213 |                                      | 100 MHz to 1 GHz models RS - S - SE -WS |
| Current nominal rating                  | (as per cables used see table below) |                                         |

| Contact type | Size    |        | Conductors sizes |      |                                      |              | External outer diameter insulating sheath (in mm) | Maximum permissible current rating per contact (in Amp.) Connector |          |
|--------------|---------|--------|------------------|------|--------------------------------------|--------------|---------------------------------------------------|--------------------------------------------------------------------|----------|
|              |         |        | Standards cables |      | Fire resistant cables as per EN 2234 |              |                                                   |                                                                    |          |
|              | Contact | Bucket | Code             |      | Code                                 |              |                                                   | Sealed                                                             | Hermetic |
|              |         |        | AECMA            | AWG* | AECMA                                | AWG*         |                                                   |                                                                    |          |
| Standard     | 20      | 20     | 006              | 20   | -                                    | -            | 0,85 to 2,10                                      | 7,5                                                                | 5        |
|              |         |        | 004              | 22   | 004                                  | 22           | 0,85 to 2,10                                      | 5,0                                                                | -        |
|              |         |        | 002              | 24   | -                                    | -            | 0,85 to 2,10                                      | 3,0                                                                | -        |
|              | 16      | 16     | 012              | 16   | -                                    | -            | 1,20 to 2,70                                      | 13,0                                                               | 10       |
|              |         |        | 010              | 18   | 010                                  | 18           | 1,20 to 2,70                                      | 11,0                                                               | -        |
|              |         |        | 006              | 20   | 006                                  | 20           | 1,20 to 2,70                                      | 7,5                                                                | -        |
|              | 12      | 12     | 030              | 12   | -                                    | -            | 1,90 to 4,00                                      | 23,0                                                               | 17       |
| 020          |         |        | 14               | 020  | 14                                   | 1,90 to 4,00 | 17,0                                              | -                                                                  |          |
| Specific     | 20      | 18     | 010              | 18   | -                                    | -            | 0,85 to 2,10                                      | 7,5                                                                | -        |
|              |         |        | 006              | 20   | -                                    | -            | 0,85 to 2,10                                      | 7,5                                                                | -        |
|              |         |        | 004              | 22   | 004                                  | 22           | 0,85 to 2,10                                      | 5,0                                                                | -        |
|              |         |        | 002              | 24   | -                                    | -            | 0,85 to 2,10                                      | 3,0                                                                | -        |

\*AWG : “ American Wire Gage”.

983 Caractéristiques techniques

Mécaniques

|                                                                                  |                     |                                    | Modèles de connecteurs |   |    |   |    |   |   |   |    |    |    |   |
|----------------------------------------------------------------------------------|---------------------|------------------------------------|------------------------|---|----|---|----|---|---|---|----|----|----|---|
|                                                                                  |                     |                                    | A                      | W | WS | R | RS | K | S | Y | KE | SE | YE |   |
| Boîtier                                                                          | Matière             | Acier inoxydable                   |                        |   |    |   |    | ● | ● | ● | ●  | ●  | ●  |   |
|                                                                                  |                     | Aluminium nickelé                  |                        |   |    | ● | ●  |   |   |   |    |    |    |   |
|                                                                                  |                     | Aluminium cadmié vert olive        |                        | ● | ●  |   |    |   |   |   |    |    |    |   |
|                                                                                  |                     | Aluminium anodisé noir             | ●                      |   |    |   |    |   |   |   |    |    |    |   |
| Isolant                                                                          | Matière             | Résine thermodurcissable           | ●                      | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |   |
|                                                                                  |                     | Silicone                           | ●                      | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |   |
|                                                                                  |                     | Verre fritté                       |                        |   |    |   |    |   |   |   | ●  |    |    | ● |
| Contacts                                                                         | Type                | À sertir, doré, démontable         | ●                      | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |   |
|                                                                                  |                     | À souder, doré, non démontable     |                        |   |    |   |    |   |   |   | ●  |    |    | ● |
| Version                                                                          |                     | Étanche                            | ●                      | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |   |
|                                                                                  |                     | Hermétique                         |                        |   |    |   |    |   |   |   | ●  |    |    | ● |
| Température d'utilisation                                                        |                     | 175° C                             |                        | ● | ●  |   |    |   |   |   |    |    |    |   |
|                                                                                  |                     | 200° C                             | ●                      |   |    | ● | ●  | ● | ● | ● |    |    |    |   |
|                                                                                  |                     | 260° C cyclique                    |                        |   |    |   |    |   |   |   |    | ●  | ●  | ● |
| Tenue au feu suivant EN2591-318                                                  |                     |                                    |                        |   |    |   |    | ● | ● |   | ●  | ●  |    |   |
| Verrouillage à sens préférentiel                                                 |                     |                                    | ●                      | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |   |
| Endurance mécanique                                                              |                     | 250 manoeuvres                     | ●                      | ● | ●  | ● | ●  |   |   |   |    |    |    |   |
|                                                                                  |                     | 500 manoeuvres                     |                        |   |    |   |    | ● | ● | ● | ●  | ●  | ●  |   |
| Continuité de masse                                                              |                     | RFI sur plug                       |                        |   | ●  |   | ●  |   | ● |   |    | ●  |    |   |
| Tenue aux brouillard salin                                                       |                     | 48 heures                          | ●                      |   |    | ● | ●  |   |   |   |    |    |    |   |
|                                                                                  | suivant EN 2591-307 | 500 hours                          |                        | ● | ●  |   |    | ● | ● | ● | ●  | ●  | ●  |   |
| Vibrations suivant EN 2591 essai D3, méthodes B<br>(de 10 à 2000 Hz dans 2 axes) |                     |                                    | ●                      | ● | ●  | ● | ●  | ● | ● | ● | ●  | ●  | ●  |   |
| Chocs suivant EN2591-402                                                         |                     |                                    | ●                      | ● | ●  | ● | ●  | ● | ● | ● | ●  | ●  | ●  |   |
| Etanchéité                                                                       |                     | 16.10 <sup>-6</sup> m³/h / 100 kPa | ●                      | ● | ●  | ● | ●  | ● | ● |   | ●  | ●  |    |   |

Electriques

|                                          |                                                            |                                           |
|------------------------------------------|------------------------------------------------------------|-------------------------------------------|
| Résistance d'isolement                   |                                                            | > 5000 MΩ à 260° C et 65% R.H             |
| Tension de tenue                         | Au niveau de la mer                                        | 1500 V eff. 50 Hz connecteurs accouplés   |
|                                          | A 15000 mètres d'altitude                                  | 1000 V eff. 50 Hz connecteurs accouplés   |
|                                          | A 30000 mètres d'altitude                                  | 200 V eff. 50 Hz connecteurs désaccouplés |
| Effacité du blindage suivant EN 2591-213 |                                                            | 100 MHz à 1 GHz modèles RS - S - SE -WS   |
| Intensité nominale admissible            | (En fonction des câbles utilisés, voir tableau ci-dessous) |                                           |

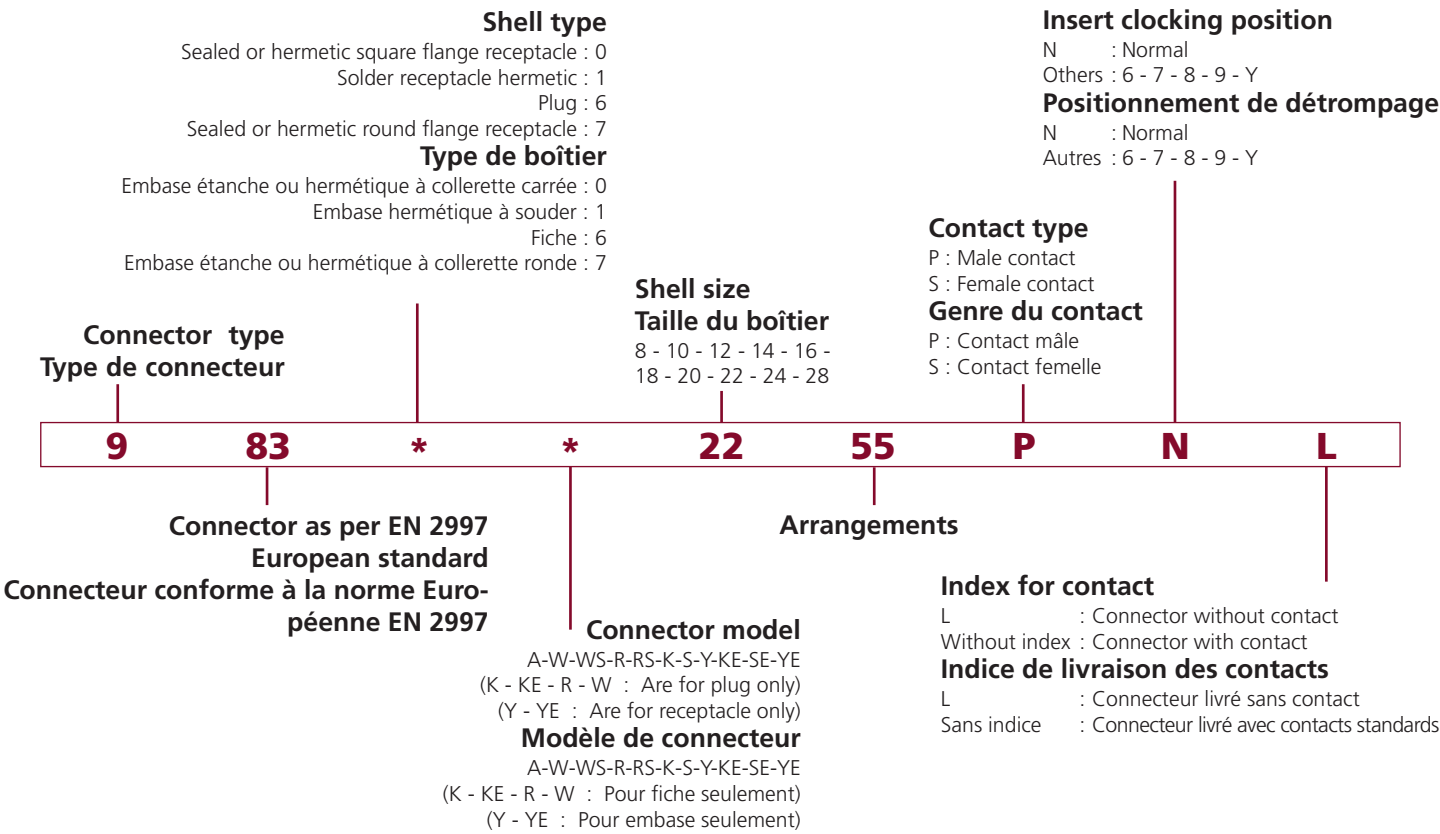
| Type de<br>contact | Taille  |     | Tailles des conducteurs |      |                                             |              | Diamètre extérieur<br>sur gaine des câbles<br>(en mm) | Intensité max. par contactt<br>(en Amp.) |            |
|--------------------|---------|-----|-------------------------|------|---------------------------------------------|--------------|-------------------------------------------------------|------------------------------------------|------------|
|                    |         |     | Câbles standards        |      | Câbles résistants au feu<br>suivant EN 2234 |              |                                                       |                                          |            |
|                    | Contact | Fit | Code                    |      | Code                                        |              |                                                       | Connecteur                               |            |
|                    |         |     | AECMA                   | AWG* | AECMA                                       | AWG*         |                                                       | Etanche                                  | Hermetique |
| Standard           | 20      | 20  | 006                     | 20   | -                                           | -            | 0,85 to 2,10                                          | 7,5                                      | 5          |
|                    |         |     | 004                     | 22   | 004                                         | 22           | 0,85 to 2,10                                          | 5,0                                      | -          |
|                    |         |     | 002                     | 24   | -                                           | -            | 0,85 to 2,10                                          | 3,0                                      | -          |
|                    | 16      | 16  | 012                     | 16   | -                                           | -            | 1,20 to 2,70                                          | 13,0                                     | 10         |
|                    |         |     | 010                     | 18   | 010                                         | 18           | 1,20 to 2,70                                          | 11,0                                     | -          |
|                    |         |     | 006                     | 20   | 006                                         | 20           | 1,20 to 2,70                                          | 7,5                                      | -          |
|                    | 12      | 12  | 030                     | 12   | -                                           | -            | 1,90 to 4,00                                          | 23,0                                     | 17         |
| 020                |         |     | 14                      | 020  | 14                                          | 1,90 to 4,00 | 17,0                                                  | -                                        |            |
| Specific           | 20      | 18  | 010                     | 18   | -                                           | -            | 0,85 to 2,10                                          | 7,5                                      | -          |
|                    |         |     | 006                     | 20   | -                                           | -            | 0,85 to 2,10                                          | 7,5                                      | -          |
|                    |         |     | 004                     | 22   | 004                                         | 22           | 0,85 to 2,10                                          | 5,0                                      | -          |
|                    |         |     | 002                     | 24   | -                                           | -            | 0,85 to 2,10                                          | 3,0                                      | -          |

\*AWG : " American Wire Gage" la plus proche.

# 983 Part Numbering System / Système de référence

## Deutsch part numbering system / Système de référence Deutsch

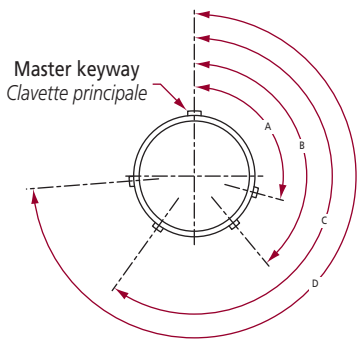
Example of order / Exemple de commande : 983-6SE 12-03 SN





# 983 Key Orientation / Détrompage Angulaire

Plug front view / Fiche, vue face avant



| Keying<br>Position | Key/Keyway locations in degrees / Positionnement en degrés des clavettes |     |     |     |                  |     |     |     |                        |     |     |     |
|--------------------|--------------------------------------------------------------------------|-----|-----|-----|------------------|-----|-----|-----|------------------------|-----|-----|-----|
|                    | Size/Taille 8                                                            |     |     |     | Size / Taille 10 |     |     |     | Size/Taille 12 to à 28 |     |     |     |
|                    | A°                                                                       | B°  | C°  | D°  | A°               | B°  | C°  | D°  | A°                     | B°  | C°  | D°  |
| N-Normal           | 105                                                                      | 140 | 215 | 265 | 105              | 140 | 215 | 265 | 105                    | 140 | 215 | 265 |
| 6                  | 102                                                                      | 132 | 248 | 320 | 102              | 132 | 248 | 320 | 18                     | 148 | 192 | 259 |
| 7                  | 80                                                                       | 118 | 230 | 312 | 80               | 118 | 230 | 312 | 92                     | 152 | 222 | 342 |
| 8                  | 35                                                                       | 140 | 205 | 275 | 35               | 140 | 205 | 275 | 84                     | 152 | 204 | 334 |
| 9                  | 64                                                                       | 155 | 234 | 304 | 64               | 155 | 234 | 304 | 24                     | 135 | 199 | 240 |
| Y                  | -                                                                        | -   | -   | -   | 25               | 115 | 220 | 270 | 98                     | 152 | 268 | 338 |

## Arrangements

Male insert, front face view / Vue face avant isolant mâle.

Disposition 08-03  
3 contacts size/taille 20

Disposition 08-98  
3 contacts size/taille 20

Disposition 10-05  
5 contacts size/taille 20

Disposition 10-06  
6 contacts size/taille 20

Disposition 12-03  
3 contacts size/taille 16

Disposition 12-12  
12 contacts size/taille 20

Disposition 14-04  
4 contacts size/taille 12

Disposition 14-07  
7 contacts size/taille 16

Disposition 14-12  
9 contacts size/taille 20  
3 contacts size/taille 16

Disposition 14-15  
15 contacts size/taille 20

Disposition 16-10  
10 contacts size/taille 16

Disposition 16-24  
24 contacts size/taille 20

Disposition 18-02  
2 contacts size/taille Quadrax

Disposition 18-08  
8 contacts size/taille 12

Disposition 18-14  
14 contacts size/taille 16

983 Arrangements

Male insert, front face view / Vue face avant isolant mâle.

Disposition 18-31  
31 contacts size/taille 20

Disposition 20-04  
4 contacts size/taille Quadrax

Disposition 20-16  
16 contacts size/taille 16

Disposition 20-25  
19 contacts size/taille 20  
6 contacts size/taille 12

Disposition 20-28  
24 contacts size/taille 20  
4 contacts size/taille 12

Disposition 20-39  
37 contacts size/taille 20  
2 contacts size/taille 16

Disposition 20-41  
41 contacts size/taille 20

Disposition 22-12  
12 contacts size/taille 12

Disposition 22-19  
19 contacts size/taille 16

Disposition 22-30  
24 contacts size/taille 20  
6 contacts size/taille 12

Disposition 22-32  
26 contacts size/taille 20  
6 contacts size/taille 12

Disposition 22-39  
27 contacts size/taille 20  
12 contacts size/taille 16

Disposition 22-55  
55 contacts size/taille 20

Disposition 24-30  
30 contacts size/taille 16

Disposition 24-57 (\*)  
55 contacts size/taille 20  
2 contacts size/taille 12

Disposition 24-61  
61 contacts size/taille 20

Disposition 28-06  
6 contacts size/taille Quadrax

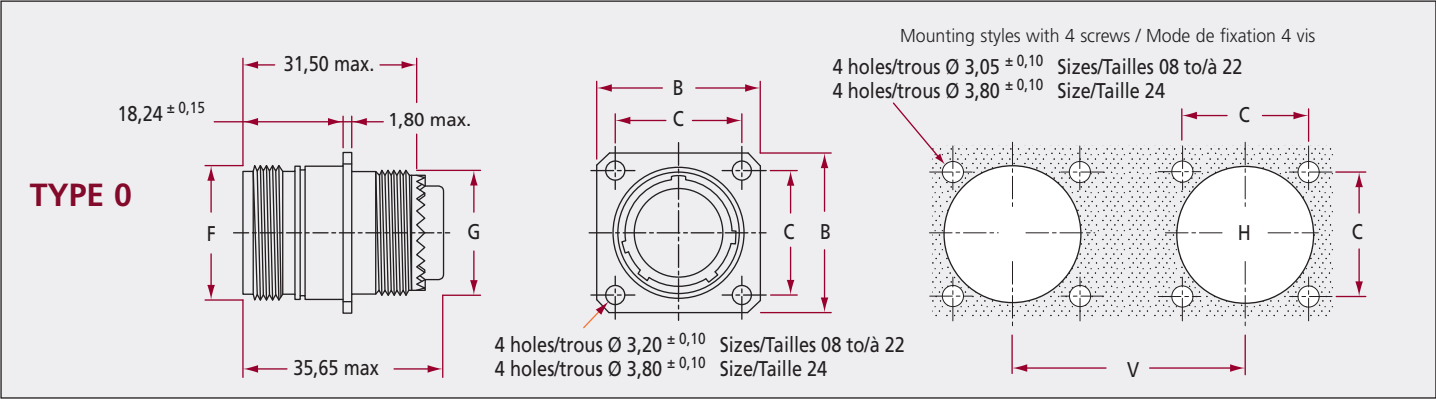
Disposition 28-42  
42 contacts size/taille 16

\* : Available in hermetic version / Disponible en hermétique  
▲ : Consult us / Nous consulter  
① : Also available for K6 contacts, consult us / Egalement disponible pour contacts K6, nous consulter.

| Nombre de contacts<br>Number of contacts<br>Size/Taille |    |    |    |                  | Nombre de contacts<br>Number of contacts<br>Size / Taille |    |    |    |                  | Nombre de contacts<br>Number of contacts<br>Size/Taille |    |    |    |                  |
|---------------------------------------------------------|----|----|----|------------------|-----------------------------------------------------------|----|----|----|------------------|---------------------------------------------------------|----|----|----|------------------|
| Arrangements                                            | 20 | 16 | 12 | Quadrax or/ou K6 | Arrangements                                              | 20 | 16 | 12 | Quadrax or/ou K6 | Arrangements                                            | 20 | 16 | 12 | Quadrax or/ou K6 |
| 08-03                                                   | 3  | -  | -  | -                | 16-24                                                     | 24 | -  | -  | -                | 22-12                                                   | -  | -  | 12 | -                |
| 08-98                                                   | 3  | -  | -  | -                | 18-02                                                     | -  | -  | -  | 2                | 22-19                                                   | -  | 19 | -  | -                |
| 10-05                                                   | 5  | -  | -  | -                | 18-08                                                     | -  | -  | 8  | -                | 22-30                                                   | 24 | -  | 6  | -                |
| 10-06                                                   | 6  | -  | -  | -                | 18-14                                                     | -  | 14 | -  | -                | 22-32                                                   | 26 | -  | 6  | -                |
| 12-03                                                   | -  | 3  | -  | -                | 18-31                                                     | 31 | -  | -  | -                | 22-39                                                   | 27 | 12 | -  | -                |
| 12-12                                                   | 12 | -  | -  | -                | 20-04                                                     | -  | -  | -  | 4                | 22-55                                                   | 55 | -  | -  | -                |
| 14-04                                                   | -  | -  | 4  | -                | 20-16                                                     | -  | 16 | -  | -                | 24-30                                                   | -  | 30 | -  | -                |
| 14-07                                                   | -  | 7  | -  | -                | 20-25                                                     | 19 | -  | 6  | -                | 24-57                                                   | 55 | -  | 2  | -                |
| 14-12                                                   | 9  | 3  | -  | -                | 20-28                                                     | 24 | -  | 4  | -                | 24-61                                                   | 61 | -  | -  | -                |
| 14-15                                                   | 15 | -  | -  | -                | 20-39                                                     | 37 | 2  | -  | -                | 28-06                                                   | -  | -  | -  | 6                |
| 16-10                                                   | -  | 10 | -  | -                | 20-41                                                     | 41 | -  | -  | -                | 28-42                                                   | -  | 42 | -  | -                |

983 Receptacles / Embases

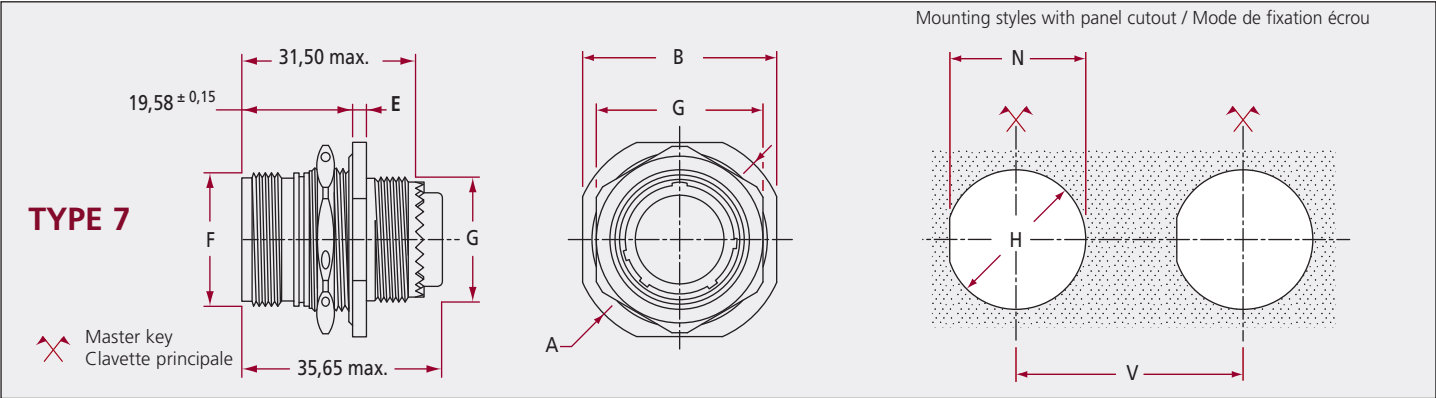
Square flange / Collettere carrée



| Size<br>Taille | B     | C      | F     | G     | H             | V     | Weight max. (gr) *<br>Masse max. (gr) * |     |
|----------------|-------|--------|-------|-------|---------------|-------|-----------------------------------------|-----|
|                | max.  | ± 0,05 | max.  | max.  | ± 0<br>- 0,02 | Mini. | Inox                                    | Alu |
| 08             | 20,75 | 15,09  | 14,27 | 12,70 | 15,80         | 31,70 | 19                                      | 11  |
| 10             | 23,93 | 18,26  | 17,47 | 15,88 | 18,70         | 34,90 | 28                                      | 16  |
| 12             | 26,32 | 20,62  | 22,22 | 19,05 | 23,40         | 39,60 | 39                                      | 27  |
| 14             | 28,71 | 23,01  | 23,82 | 22,23 | 24,90         | 41,25 | 51                                      | 30  |
| 16             | 31,88 | 24,61  | 26,97 | 25,40 | 28,30         | 44,45 | 62                                      | 34  |
| 18             | 34,24 | 26,97  | 30,18 | 26,97 | 31,10         | 47,35 | 73                                      | 36  |
| 20             | 36,63 | 29,36  | 33,32 | 30,18 | 34,50         | 51,90 | 82                                      | 40  |
| 22             | 39,80 | 31,75  | 36,53 | 33,32 | 37,50         | 54,10 | 90                                      | 51  |
| 24             | 43,39 | 34,92  | 39,67 | 36,53 | 40,60         | 57,25 | 105                                     | 58  |
| 28             | 50,93 | 39,67  | 46,02 | 44,45 | 48,00         | 65,25 | 126                                     | 88  |

\* : Without contact / Sans contact

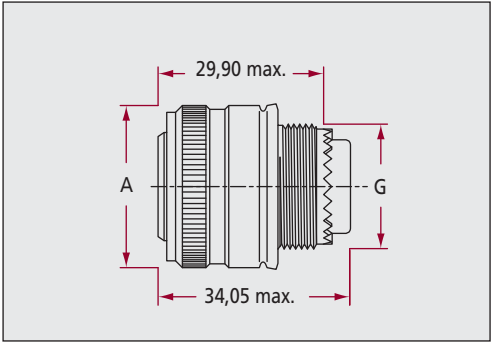
Jam-nut mounting / Collettere ronde



| Size<br>Taille | A     | B     | E    | F     | G     | H            | M     | N            | V     | Weight max. (gr) *<br>Masse max. (gr) * |            | Tightening torque of<br>panel nut<br>Couple de serrage de<br>l'écrou de panneau |
|----------------|-------|-------|------|-------|-------|--------------|-------|--------------|-------|-----------------------------------------|------------|---------------------------------------------------------------------------------|
|                | max.  | max.  | max. | max.  | max.  | ± 0<br>± 0,2 | max.  | + 0<br>- 0,2 | Mini. | Stainless steel<br>Acier inox           | Alu<br>Alu |                                                                                 |
| 08             | 27,38 | 24,89 | 3,48 | 14,27 | 12,70 | 16,26        | 21,06 | 15,50        | 31,70 | 32                                      | 15         | 7m.N max.                                                                       |
| 10             | 30,28 | 28,04 | 3,48 | 17,47 | 15,88 | 19,43        | 24,23 | 18,67        | 34,90 | 41                                      | 21         | 10m.N max.                                                                      |
| 12             | 35,05 | 32,79 | 3,48 | 22,22 | 19,05 | 24,18        | 29,01 | 23,42        | 39,60 | 58                                      | 30         | 12m.N max.                                                                      |
| 14             | 38,51 | 35,33 | 3,48 | 23,82 | 22,23 | 25,78        | 30,61 | 25,02        | 41,25 | 68                                      | 35         | 15m.N max.                                                                      |
| 16             | 41,68 | 38,51 | 3,48 | 26,97 | 25,40 | 28,96        | 33,75 | 28,20        | 44,45 | 82                                      | 46         | 18m.N max.                                                                      |
| 18             | 44,86 | 41,68 | 3,48 | 30,18 | 26,97 | 32,13        | 36,96 | 31,25        | 47,35 | 88                                      | 51         | 22m.N max.                                                                      |
| 20             | 49,63 | 44,86 | 3,48 | 33,32 | 30,18 | 35,31        | 40,11 | 34,42        | 51,90 | 100                                     | 56         | 25m.N max.                                                                      |
| 22             | 52,78 | 49,63 | 3,76 | 36,53 | 33,32 | 38,48        | 43,31 | 37,59        | 54,10 | 123                                     | 69         | 27m.N max.                                                                      |
| 24             | 55,42 | 52,81 | 3,76 | 39,67 | 36,53 | 41,65        | 46,46 | 40,77        | 57,25 | 137                                     | 82         | 29m.N max.                                                                      |
| 28             | 61,82 | 59,21 | 3,76 | 46,02 | 44,45 | 48,01        | 54,41 | 47,14        | 65,25 | 191                                     | 120        | 30m.N max.                                                                      |

\* : Without contact / Sans contact

# 983 Plug / Fiche



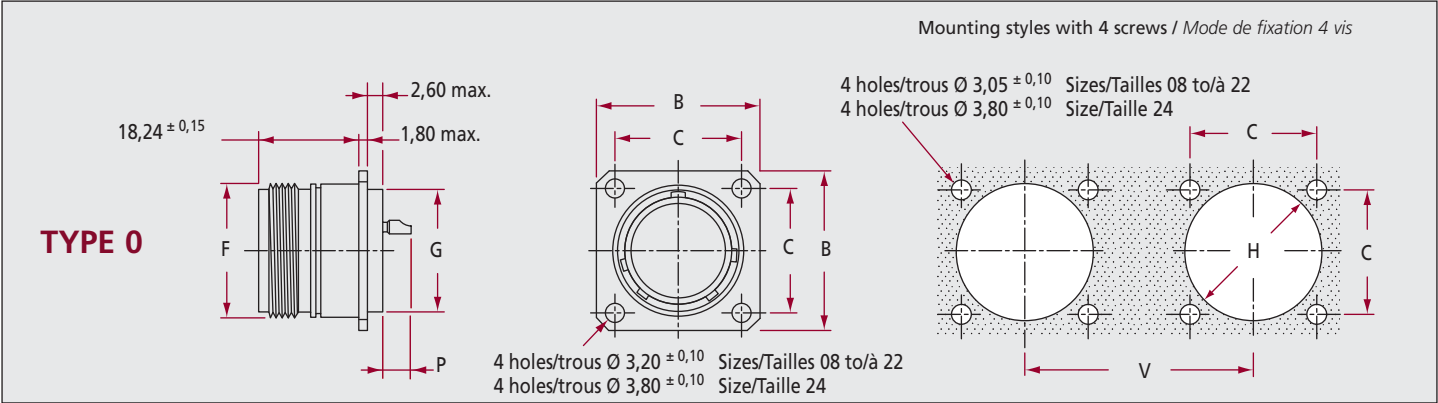
| Size<br>Taille | A<br>max. | G<br>max. | Weight max. (gr) *<br>Masse max. (gr) * |     |
|----------------|-----------|-----------|-----------------------------------------|-----|
|                |           |           | Stainless steel<br>Acier inox           | Alu |
| 08             | 21,30     | 12,70     | 31                                      | 14  |
| 10             | 24,90     | 15,85     | 44                                      | 21  |
| 12             | 29,60     | 19,05     | 57                                      | 26  |
| 14             | 31,24     | 22,20     | 72                                      | 38  |
| 16             | 32,42     | 25,40     | 82                                      | 39  |
| 18             | 37,34     | 26,95     | 95                                      | 43  |
| 20             | 41,91     | 30,15     | 108                                     | 48  |
| 22             | 44,07     | 33,30     | 121                                     | 65  |
| 24             | 47,24     | 36,50     | 134                                     | 67  |
| 28             | 55,24     | 44,45     | 160                                     | 103 |

\* : Without contact / Sans contact



# 983 Hermetic Receptacles / Embases Hermétiques

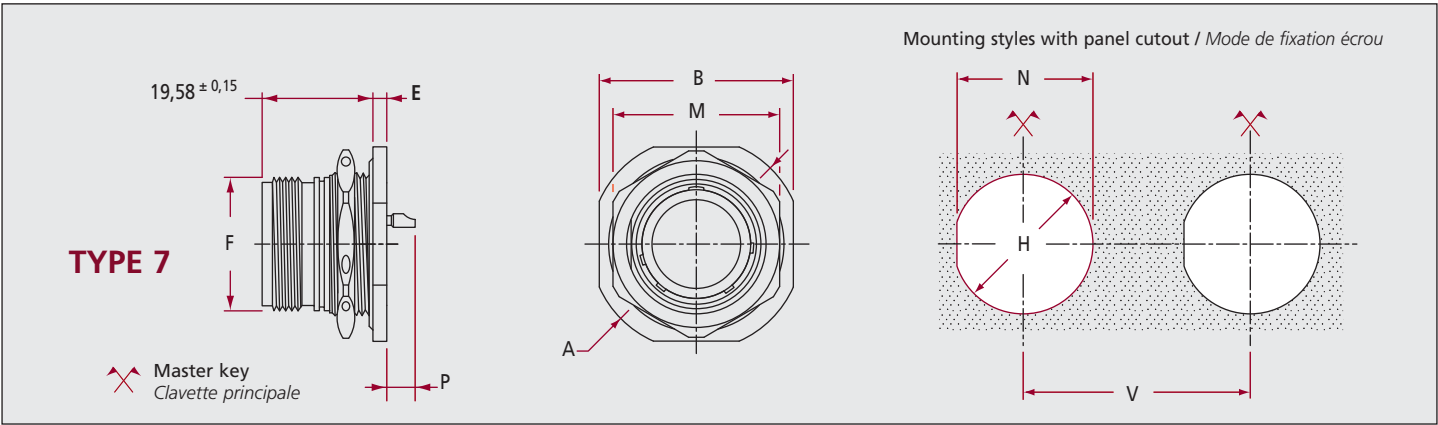
## Square flange / Colerette carrée



| Size<br>Taille | B<br>max. | C<br>± 0,05 | F<br>max. | G<br>max. | H<br>± 0<br>- 0,2 | P max.<br>Size / taille |       | V<br>mini. | Weight max. (gr) *<br>Masse max. (gr) * |
|----------------|-----------|-------------|-----------|-----------|-------------------|-------------------------|-------|------------|-----------------------------------------|
|                |           |             |           |           |                   | 20                      | 16-12 |            |                                         |
| 08             | 20,75     | 15,09       | 14,27     | 12,70     | 15,80             | 4,93                    | 5,69  | 31,70      | 18                                      |
| 10             | 23,93     | 18,26       | 17,47     | 15,88     | 18,70             | 4,93                    | 5,69  | 34,90      | 24                                      |
| 12             | 26,32     | 20,62       | 22,22     | 19,05     | 23,40             | 4,93                    | 5,69  | 39,60      | 31                                      |
| 14             | 28,71     | 23,01       | 23,82     | 22,23     | 24,90             | 4,93                    | 5,69  | 41,25      | 40                                      |
| 16             | 31,88     | 24,61       | 26,97     | 25,40     | 28,30             | 4,93                    | 5,69  | 44,45      | 49                                      |
| 18             | 34,24     | 26,97       | 30,18     | 26,97     | 31,10             | 4,93                    | 5,69  | 47,35      | 54                                      |
| 20             | 36,63     | 29,36       | 33,32     | 30,18     | 34,50             | 4,93                    | 5,69  | 51,90      | 62                                      |
| 22             | 39,80     | 31,75       | 36,53     | 33,32     | 37,50             | 4,93                    | 5,69  | 54,10      | 77                                      |
| 24             | 43,39     | 34,92       | 39,67     | 36,53     | 40,60             | 4,93                    | 5,69  | 57,25      | 88                                      |

\* : Without contact / Sans contact

## Jam-nut mounting / Colerette ronde

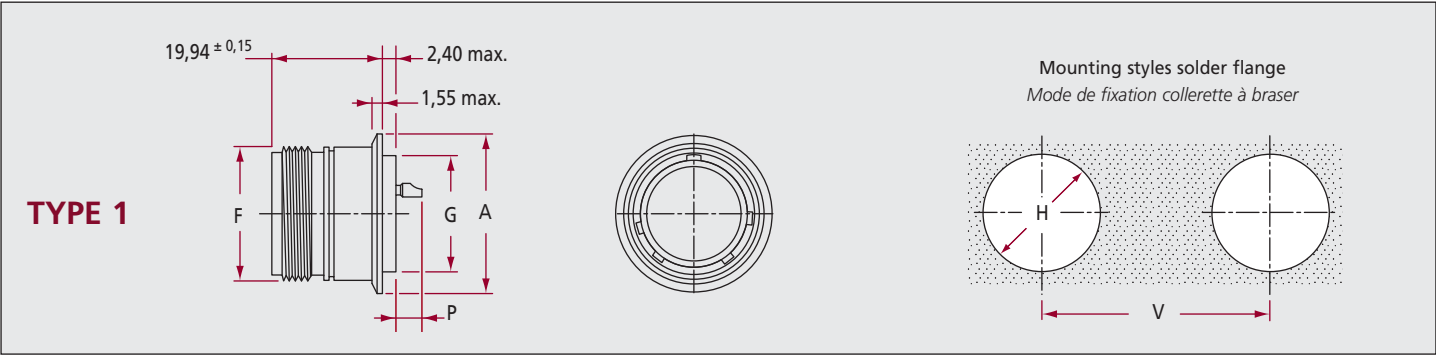


| Size<br>Taille | A<br>max. | B<br>max. | E<br>max. | F<br>max. | H<br>± 0<br>± 0,2 | M<br>max. | N<br>+ 0<br>- 0,2 | P max.<br>Size / taille |       | V<br>mini. | Weight max. (gr) *<br>Masse max. (gr) * | Tightening torque of<br>panel nut<br>Couple de serrage de<br>l'écro de panneau |
|----------------|-----------|-----------|-----------|-----------|-------------------|-----------|-------------------|-------------------------|-------|------------|-----------------------------------------|--------------------------------------------------------------------------------|
|                |           |           |           |           |                   |           |                   | 20                      | 16-12 |            |                                         |                                                                                |
| 08             | 27,38     | 24,89     | 3,48      | 14,27     | 16,26             | 21,06     | 15,50             | 4,57                    | 5,33  | 31,70      | 29                                      | 7m.N max.                                                                      |
| 10             | 30,28     | 28,04     | 3,48      | 17,47     | 19,43             | 24,23     | 18,67             | 4,57                    | 5,33  | 34,90      | 37                                      | 10m.N max.                                                                     |
| 12             | 35,05     | 32,79     | 3,48      | 22,22     | 24,18             | 29,01     | 23,42             | 4,57                    | 5,33  | 39,60      | 50                                      | 12m.N max.                                                                     |
| 14             | 38,51     | 35,33     | 3,48      | 23,82     | 25,78             | 30,61     | 25,02             | 4,57                    | 5,33  | 41,25      | 58                                      | 15mN. max.                                                                     |
| 16             | 41,68     | 38,51     | 3,48      | 26,97     | 28,96             | 33,76     | 28,20             | 4,57                    | 5,33  | 44,45      | 72                                      | 18mN. max.                                                                     |
| 18             | 44,86     | 41,68     | 3,48      | 30,18     | 32,13             | 36,96     | 31,25             | 4,57                    | 5,33  | 47,35      | 79                                      | 22m.N max.                                                                     |
| 20             | 49,63     | 44,86     | 3,48      | 33,32     | 35,31             | 40,11     | 34,42             | 4,57                    | 5,33  | 51,90      | 87                                      | 25m.N max.                                                                     |
| 22             | 52,78     | 49,63     | 3,76      | 36,53     | 38,48             | 43,31     | 37,59             | 4,29                    | 5,05  | 54,10      | 108                                     | 27mN. max.                                                                     |
| 24             | 55,42     | 52,81     | 3,76      | 39,67     | 41,66             | 46,46     | 40,77             | 4,29                    | 5,05  | 57,25      | 122                                     | 29mN. max.                                                                     |

\* : Without contact  
Sans contact

# 983 Hermetic Receptacle / Embase Hermétique

## Solder round flange / Colerette ronde à souder



| Size<br>Taille | A<br>± 0<br>- 0,2 | F<br>max. | G<br>max. | H<br>± 0<br>- 0,2 | P max.<br>Size / taille |       | V<br>mini. | Weight max. (gr) *<br>Masse max. (gr) * |
|----------------|-------------------|-----------|-----------|-------------------|-------------------------|-------|------------|-----------------------------------------|
|                |                   |           |           |                   | 20                      | 16-12 |            |                                         |
| 08             | 18,30             | 14,27     | 12,70     | 12,96             | 4,93                    | 5,69  | 31,70      | 15                                      |
| 10             | 21,50             | 17,47     | 14,27     | 14,53             | 4,93                    | 5,69  | 34,90      | 21                                      |
| 12             | 26,90             | 22,22     | 19,05     | 19,30             | 4,93                    | 5,69  | 39,60      | 31                                      |
| 14             | 27,90             | 23,82     | 20,62     | 20,88             | 4,93                    | 5,69  | 41,25      | 35                                      |
| 16             | 30,90             | 26,97     | 23,80     | 24,05             | 4,93                    | 5,69  | 44,45      | 46                                      |
| 18             | 34,30             | 30,18     | 26,97     | 27,25             | 4,93                    | 5,69  | 47,35      | 51                                      |
| 20             | 37,30             | 33,32     | 30,15     | 30,40             | 4,93                    | 5,69  | 51,90      | 59                                      |
| 22             | 40,60             | 36,53     | 33,32     | 33,58             | 4,93                    | 5,69  | 54,10      | 73                                      |
| 24             | 43,60             | 39,67     | 36,50     | 36,75             | 4,93                    | 5,69  | 57,25      | 86                                      |

\* : Without contact / Sans contact

Stainless steel shell exempt of sulphur E.B. welding and laser.  
Boîtier en acier inox exempt de soufre pour soudure par bombardement électronique et laser.



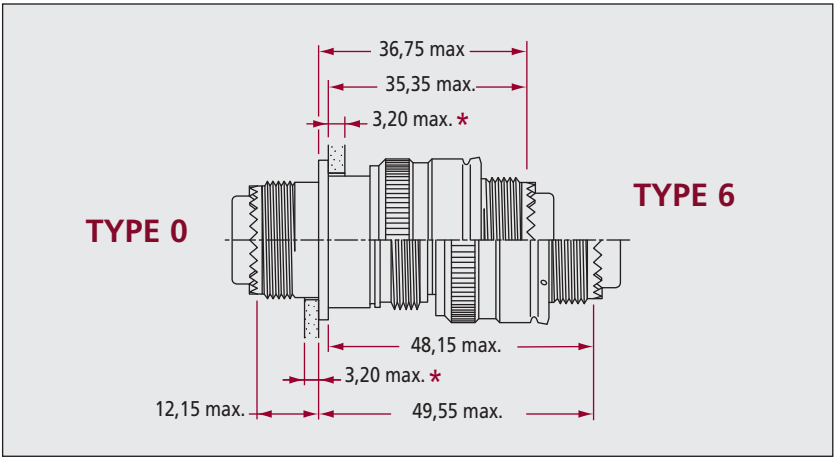




# Mating and Unmating Dimensions / Accouplements

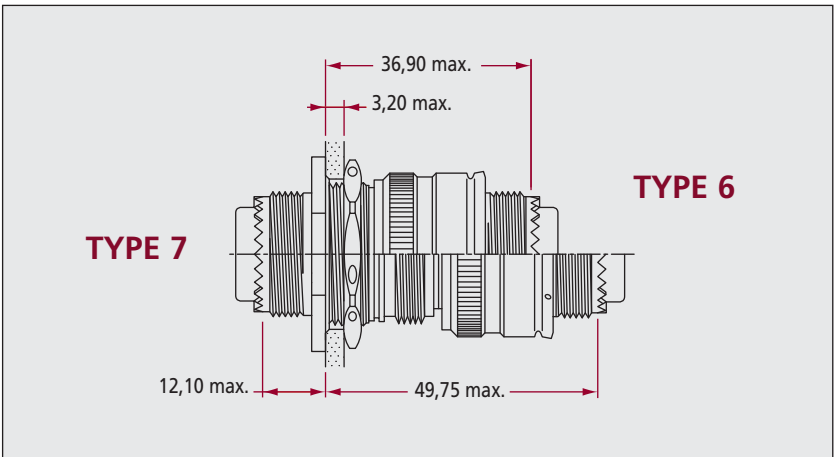
## Square flange / Colerette carrée

Sealed version / Version étanche



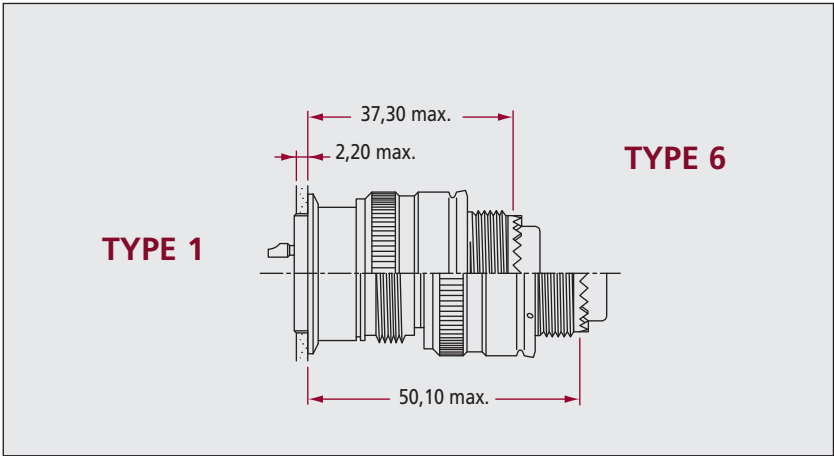
\* Nota : Maxi dimension given with panel seal. Côte maxi. donnée avec joint plat

## Jam-nut mounting / Colerette ronde



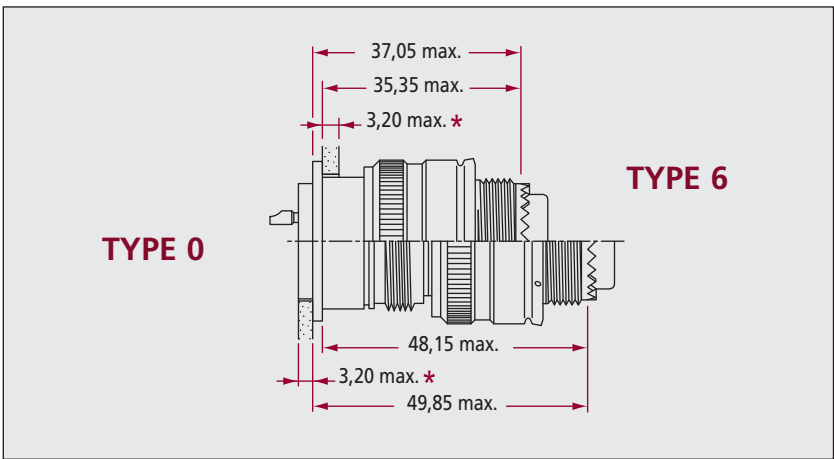
# 983 Mating and Unmating Dimensions / Accouplements

## Solder hole mounting / Colerette ronde à souder



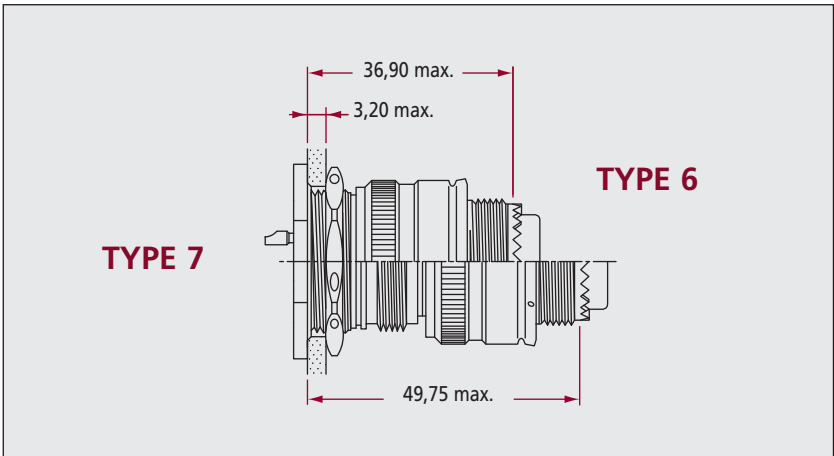
## Square flange / Colerette carrée

### Hermetic version / Version hermétique



\* Nota : Maxi dimension given with panel seal. Côte maxi. donnée avec joint plat

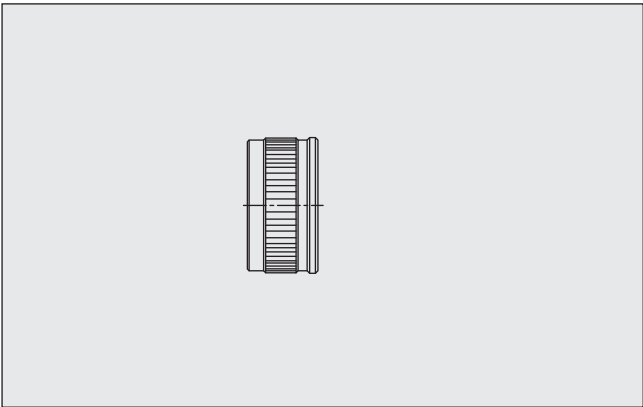
## Jam-nut mounting / Colerette ronde





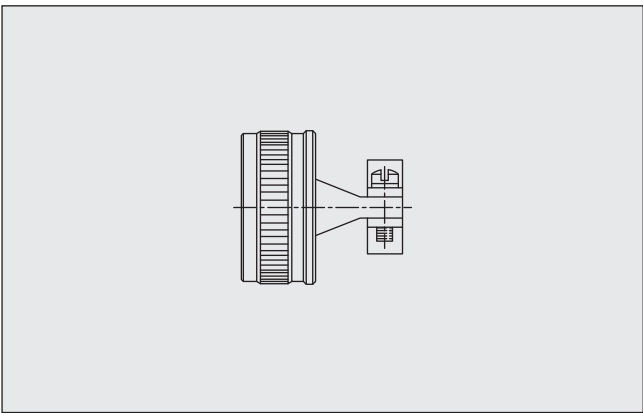
# 983 Accessories / Accessoires

## Nut / Ecrou arrière



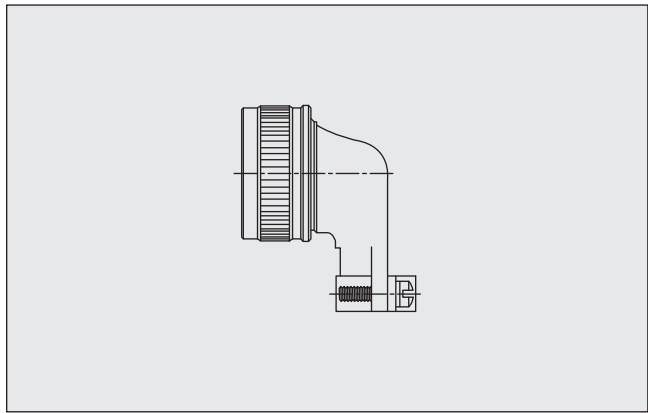
| Size<br>Taille                                    | Stainless steel<br>Acier inox | Part Number / Référence     |                             |                                           |
|---------------------------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------------------|
|                                                   |                               | Alu. nickel<br>Alu. nickelé | Alu. cadmium<br>Alu. cadmié | Alu. black anodize<br>Alu anodisé<br>Noir |
| 08                                                | 66240-08                      | 006-0909-08 A499            | 006-0909-08 A838            | 006-0909-08                               |
| 10                                                | 66240-10                      | 006-0909-10 A499            | 006-0909-10 A838            | 006-0909-10                               |
| 12                                                | 66240-12                      | 006-0909-12 A499            | 006-0909-12 A838            | 006-0909-12                               |
| 14                                                | 66240-14                      | 006-0909-14 A499            | 006-0909-14 A838            | 006-0909-14                               |
| 16                                                | 66240-16                      | 006-0909-16 A499            | 006-0909-16 A838            | 006-0909-16                               |
| 18                                                | 66240-18                      | 006-0909-18 A499            | 006-0909-18 A838            | 006-0909-18                               |
| 20                                                | 66240-20                      | 006-0909-20 A499            | 006-0909-20 A838            | 006-0909-20                               |
| 22                                                | 66240-22                      | 006-0909-22 A499            | 006-0909-22 A838            | 006-0909-22                               |
| 24                                                | 66240-24                      | 006-0909-24 A499            | 006-0909-24 A838            | 006-0909-24                               |
| 28                                                | 66240-28                      | 006-0909-28 A499            | 006-0909-28 A838            | 006-0909-28                               |
| Used for connectors / Utilisable pour connecteurs |                               |                             |                             |                                           |
| Models<br>Modèles                                 | K - KE<br>S - SE              | R - RS                      | W - WS                      | A                                         |

## Straight cable clamp / Serre-câble droit



| Size<br>Taille                                    | Stainless steel<br>Acier inox | Part Number / Référence     |                             |                                            |
|---------------------------------------------------|-------------------------------|-----------------------------|-----------------------------|--------------------------------------------|
|                                                   |                               | Alu. nickel<br>Alu. nickelé | Alu. cadmium<br>Alu. cadmié | Alu. black anodize<br>Alu. anodisé<br>noir |
| 08                                                | 66241-08 A                    | 006-0910-08 A499            | 006-0910-08 A838            | 006-0910-08                                |
| 10                                                | 66241-10 A                    | 006-0910-10 A499            | 006-0910-10 A838            | 006-0910-10                                |
| 12                                                | 66241-12 A                    | 006-0910-12 A499            | 006-0910-12 A838            | 006-0910-12                                |
| 14                                                | 66241-14 A                    | 006-0910-14 A499            | 006-0910-14 A838            | 006-0910-14                                |
| 16                                                | 66241-16 A                    | 006-0910-16 A499            | 006-0910-16 A838            | 006-0910-16                                |
| 18                                                | 66241-18 A                    | 006-0910-18 A499            | 006-0910-18 A838            | 006-0910-18                                |
| 20                                                | 66241-20 A                    | 006-0910-20 A499            | 006-0910-20 A838            | 006-0910-20                                |
| 22                                                | 66241-22 A                    | 006-0910-22 A499            | 006-0910-22 A838            | 006-0910-22                                |
| 24                                                | 66241-24 A                    | 006-0910-24 A499            | 006-0910-24 A838            | 006-0910-024                               |
| 28                                                | 66241-28 A                    | 006-0910-28 A499            | 006-0910-28 A838            | 006-0910-28                                |
| Used for connectors / Utilisable pour connecteurs |                               |                             |                             |                                            |
| Models<br>Modèles                                 | K - KE<br>S - SE              | R - RS                      | W - WS                      | A                                          |

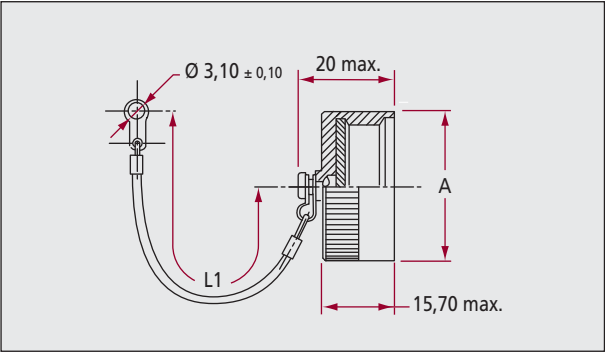
## Elbowed cable clamp / Serre-câble coudé



| Size<br>Taille                                    | Stainless steel<br>Acier inox | Part Number / Référence     |                             |                                           |
|---------------------------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------------------|
|                                                   |                               | Alu. nickel<br>Alu. nickelé | Alu. cadmium<br>Alu. cadmié | Alu. black anodize<br>Alu anodisé<br>noir |
| 08                                                | 66332-08 A                    | 006-0908-08 A499            | 006-0908-08 A838            | 006-0908-08                               |
| 10                                                | 66332-10 A                    | 006-0908-10 A499            | 006-0908-10 A838            | 006-0908-10                               |
| 12                                                | 66332-12 A                    | 006-0908-12 A499            | 006-0908-12 A838            | 006-0908-12                               |
| 14                                                | 66332-14 A                    | 006-0908-14 A499            | 006-0908-14 A838            | 006-0908-14                               |
| 16                                                | 66332-16 A                    | 006-0908-16 A499            | 006-0908-16 A838            | 006-0908-16                               |
| 18                                                | 66332-18 A                    | 006-0908-18 A499            | 006-0908-18 A838            | 006-0908-18                               |
| 20                                                | 66332-20 A                    | 006-0908-20 A499            | 006-0908-20 A838            | 006-0908-20                               |
| 22                                                | 66332-22 A                    | 006-0908-22 A499            | 006-0908-22 A838            | 006-0908-22                               |
| 24                                                | 66332-24 A                    | 006-0908-24 A499            | 006-0908-24 A838            | 006-0908-24                               |
| 28                                                | 66332-28 A                    | 006-0908-28 A499            | 006-0908-28 A838            | 006-0908-28                               |
| Used for connectors / Utilisable pour connecteurs |                               |                             |                             |                                           |
| Models<br>Modèles                                 | K - KE<br>S - SE              | R - RS                      | W - WS                      | A                                         |

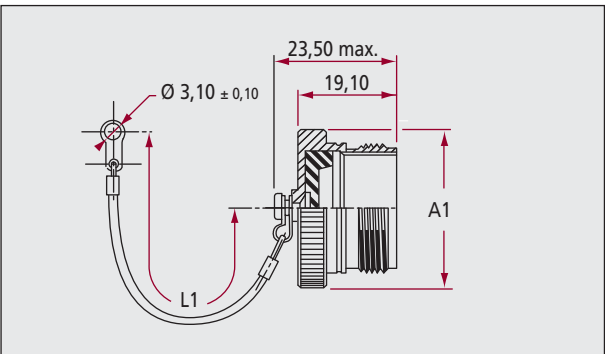
# 983 Protective covers / Bouchons de protection

## For receptacle / Pour embase



| Keying<br>Position                                | Part Number / Référence       |                             |                            |
|---------------------------------------------------|-------------------------------|-----------------------------|----------------------------|
|                                                   | Stainless steel<br>Acier inox | Alu. nickel<br>Alu. nickelé | Alu. cadmium<br>Alu. camié |
| N                                                 | 983-3KE-* **                  | 983-3R-* **                 | 983-3W-* **                |
| 6                                                 | 983-3KE-* **                  | 983-3R-* **                 | 983-3W-* **                |
| 7                                                 | 983-3KE-* **                  | 983-3R-* **                 | 983-43W-* **               |
| 8                                                 | 983-3KE-* **                  | 983-3R-* **                 | 983-3W-* **                |
| 9                                                 | 983-3KE-* **                  | 983-3R-* **                 | 983-3W-* **                |
| Y                                                 | 983-3KE-* **                  | 983-3R-* **                 | 983-3W-* **                |
| Used for connectors / Utilisable pour connecteurs |                               |                             |                            |
| Models<br>Modèles                                 | K - KE<br>S - SE              | R - RS                      | W - WS                     |

## For plug / Pour fiche



| Keying<br>Position                                | Part Number / Référence       |                             |                             |
|---------------------------------------------------|-------------------------------|-----------------------------|-----------------------------|
|                                                   | Stainless steel<br>Acier inox | Alu. nickel<br>Alu. nickelé | Alu. cadmium<br>Alu. cadmié |
| N                                                 | 983-4KE-* **                  | 983-4R-* **                 | 983-4W-* **                 |
| 6                                                 | 983-4KE-* **                  | 983-4R-* **                 | 983-4W-* **                 |
| 7                                                 | 983-4KE-* **                  | 983-4R-* **                 | 983-4W-* **                 |
| 8                                                 | 983-4KE-* **                  | 983-4R-* **                 | 983-4W-* **                 |
| 9                                                 | 983-4KE-* **                  | 983-4R-* **                 | 983-4W-* **                 |
| Y                                                 | 983-4KE-* **                  | 983-4R-* **                 | 983-4W-* **                 |
| Used for connectors / Utilisable pour connecteurs |                               |                             |                             |
| Models<br>Modèles                                 | K - KE<br>S - SE              | R - RS                      | W - WS                      |

| Size<br>Taille | A<br>max. | A1<br>max. | L1<br>± 6 mm |
|----------------|-----------|------------|--------------|
| 08             | 19,70     | 19,45      | 127          |
| 10             | 23,00     | 23,00      | 127          |
| 12             | 27,35     | 27,35      | 127          |
| 14             | 28,95     | 28,95      | 127          |
| 16             | 32,15     | 32,15      | 127          |
| 18             | 34,90     | 34,90      | 127          |
| 20             | 38,35     | 38,35      | 127          |
| 22             | 41,25     | 41,25      | 127          |
| 24             | 44,70     | 44,70      | 127          |
| 28             | 50,80     | 51,30      | 127          |

- \* C : With chain and small eyelet / Avec chaîne et petit oeillet
- \* D : With cord and small eyelet / Avec corde et petit oeillet
- \* N : Without chain or cord and with holes for locking wire / Sans chaîne ni corde et avec trous pour fil de freinage
- \*\* : Shell size / Taille boîtier

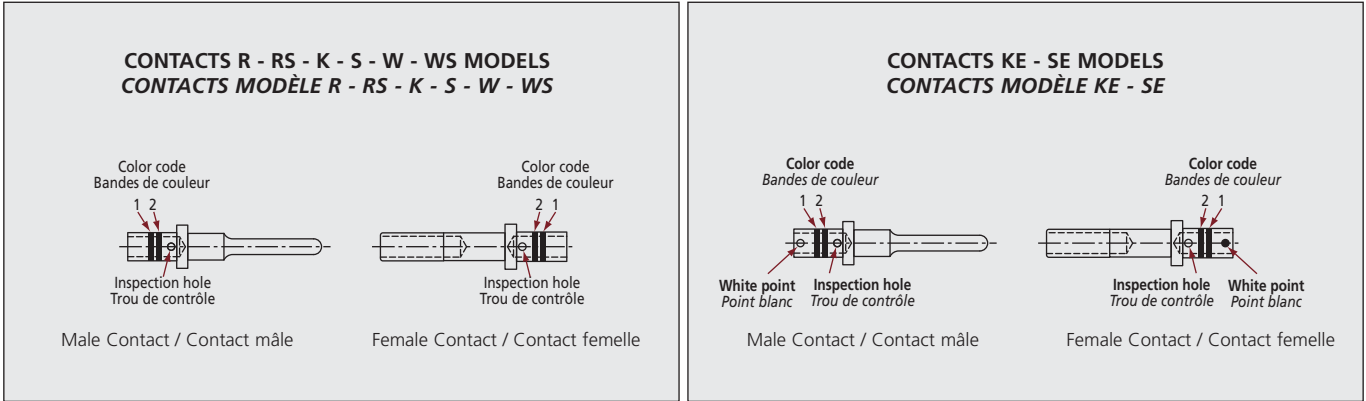


## Panel seal / Joints plats

### For square flange receptacle / Pour embase collerette carrée.

Panel seal is never delivered with the connector. Order it separately. Le joint plat n'est jamais livré avec le connecteur. Le commander séparément. Consult us / Nous consulter.

983 Contacts and tools / Contacts et outillages



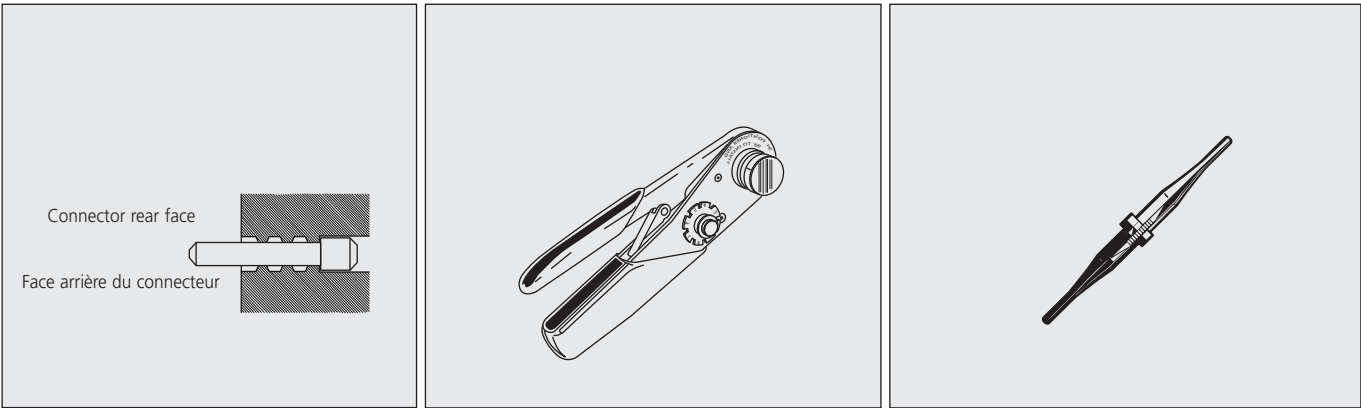
| CONTACTS / CONTACTS             |                                    |               |                |                                           | CABLES / CÂBLES  |                                 |                        |                              |                                                                                             |
|---------------------------------|------------------------------------|---------------|----------------|-------------------------------------------|------------------|---------------------------------|------------------------|------------------------------|---------------------------------------------------------------------------------------------|
| New PN<br>Nouvelle<br>Reference | Former PN<br>Ancienne<br>Reference | Type<br>Genre | Size<br>Taille | Mark or Color<br>Couleur ou repère<br>1 2 |                  | Section<br>Section<br>in/en mm2 | AWG Wire<br>Taille Fil | Ø over sheath<br>Ø sur gaine | Observations                                                                                |
| 006-0937-20<br>006-0912-20      | 0641-10-2059-B<br>0603-34-2059-B   | P<br>S        | 20             | Red/Rouge                                 |                  | 0,21 to/à 0,60                  | 20 to/à 24             | 0,85 to/à 2,10               | Standards contacts delivered with connector<br>Contacts standards livrés avec le connecteur |
| 006-0937-16<br>006-0912-16      | 0641-12-1659-B<br>0603-33-1659-B   | P<br>S        | 16             | Blue/Bleu                                 |                  | 0,60 to/à 1,34                  | 16 to/à 20             | 1,20 to/à 2,70               | Standards contacts delivered with connector<br>Contacts standards livrés avec le connecteur |
| 006-0937-12<br>006-0912-12      | 0641-32-1259-B<br>0603-32-1259-B   | P<br>S        | 12             | Yellow/Jaune                              |                  | 1,93 to/à 3,18                  | 12 to/à 14             | 1,90 to/à 4,00               | Standards contacts delivered with connector<br>Contacts standards livrés avec le connecteur |
| 006-0044-20<br>006-0055-20      | DF 06-044-20-B<br>DF 06-A-055-20-B | P<br>S        | 20             | Purple<br>Violet                          | Red<br>Rouge     | 0,21 to/à 0,93                  | 18 to/à 24             | 0,85 to/à 2,10               | Contacts to be ordered separately<br>Contacts à commander séparément                        |
| 006-0972-20<br>006-0973-20      | 0641-24-2059-B<br>0603-21-2059-B   | P<br>S        | 20             | White<br>Blanc                            | Red<br>Rouge     | 0,055 to/à 0,15                 | 26 to/à 30             | 0,85 to/à 2,10               | Contacts to be ordered separately<br>Contacts à commander séparément                        |
| 006-1102-16<br>006-1104-16      | -                                  | P<br>S        | 16             | Orange<br>Orange                          | Blue<br>Bleu     | 0,93 to/à 1,91                  | 14 to/à 18             | 1,20 to/à 2,70               | Contacts to be ordered separately<br>Contacts à commander séparément                        |
| 182-0450-16<br>182-0451-16      | -                                  | P<br>S        | 16             | Red<br>Rouge                              | Blue<br>Bleu     | 0,25 to/à 0,60                  | 20 to/à 24             | 1,20 to/à 2,70               | Contacts to be ordered separately<br>Contacts à commander séparément                        |
| 025-0870-16<br>025-0871-16      | -                                  | P<br>S        | 16             | Black<br>Noir                             | Blue<br>Bleu     | 0,055 to/à 0,60                 | 26 to/à 30             | 1,20 to/à 2,70               | Contacts to be ordered separately<br>Contacts à commander séparément                        |
| 097-0015-20<br>097-0016-20      | 45045-A<br>45109-A                 | P<br>S        | 20             | Red/Rouge                                 |                  | 0,22 to/à 0,60                  | 20 to/à 24             | 0,85 to/à 2,10               | Standards contacts delivered with connector<br>Contacts standards livrés avec le connecteur |
| 097-0047-20<br>097-0053-20      | 47815-A<br>47816-A                 | P<br>S        | 20             | Blue<br>Bleu                              | Red<br>Rouge     | 0,22                            | 24                     | 1                            | Contacts to be ordered separately<br>Contacts à commander séparément                        |
| 097-0014-16<br>097-0013-16      | -                                  | P<br>S        | 16             | Blue/Bleu                                 |                  | 0,60 to/à 1,34                  | 16 to/à 20             | 1,20 to/à 2,70               | Standards contacts delivered with connector<br>Contacts standards livrés avec le connecteur |
| 097-0177-16<br>097-0178-16      | -                                  | P<br>S        | 16             | Blue<br>Bleu                              | Orange<br>Orange | 1,91                            | 14                     | 1,20 to/à 2,70               | Contacts to be ordered separately<br>Contacts à commander séparément                        |
| 097-0165-12<br>097-0166-12      | -                                  | P<br>S        | 12             | Yellow/Jaune                              |                  | 1,91 to/à 3,18                  | 12 to/à 14             | 1,90 to/à 4,00               | Standards contacts delivered with connector<br>Contacts standards livrés avec le connecteur |

Power contacts K6 / Contacts de puissance K6

For arrangements 18-02, 20-04 and 28-06 only / Pour les arrangements 18-02, 20-04 et 28-06 uniquement

| KIT CONTACT / CONTACT KIT<br>(CONTACTS + SLEEVE)<br>(CONTACTS + MANCHON) |               |                           | COLOR CODE<br>BANDE DE COULEUR |              | TOOLS / OUTILS                  |                            |                                       | SEALING PLUG<br>OBTURATEUR |
|--------------------------------------------------------------------------|---------------|---------------------------|--------------------------------|--------------|---------------------------------|----------------------------|---------------------------------------|----------------------------|
| Commercial P N<br>Réf. commerciale                                       | Type<br>Genre | Wire size<br>Taille câble | 1                              | 2            | Crimping tool<br>Pince à sertir | Positioner<br>Positionneur | Extraction tool<br>Outil d'extraction | K6                         |
| 182-0672-06<br>182-0673-06                                               | P<br>S        | 6                         | Green/Vert                     | Green/Vert   | M22520/23-01                    | M22520/23-03               | 025-0711-06                           | 182-8004-08 A              |
| 182-0672-08<br>182-0673-08                                               | P<br>S        | 8                         | Green/Vert                     | Red/Rouge    | M22520/23-01                    | M22520/23-02               | 025-0711-06                           | 182-8004-08 A              |
| 182-0672-10<br>182-0673-10                                               | P<br>S        | 10-12                     | Green/Vert                     | Brown/Marron | M22520/23-01                    | TP1498                     | 025-0711-06                           | 182-8004-08 A              |

983 Contacts and tools / Contacts et outillages



| SEALING PLUG / OBTURATEURS |                            | TOOLS / OUTILLAGE                |                                  |                                    |                                      |
|----------------------------|----------------------------|----------------------------------|----------------------------------|------------------------------------|--------------------------------------|
| Part number<br>Référence   | Color code<br>Code couleur | Crimping tool<br>Pince à sertir  | Pilot stop<br>Butée              | Tool/Outil<br>Insertion/Extraction | Strip length in mm<br>Dénudage en mm |
| 097-0140-20                | Red/Rouge                  | 057-0461-11                      | 057-0462-21                      | M 15570-20                         | 4,00 to/à 5,50                       |
| 097-0139-16                | Blue/Bleu                  | M22520/1-01 or/ou<br>057-0461-11 | M22520/1-02 or/ou<br>057-0462-21 | M 15570-16                         | 6,40 to/à 8,00                       |
| 097-0138-12                | Yellow/Jaune               | 057-0461-11                      | 057-0462-21                      | M 15570-12                         | 6,40 to/à 8,00                       |
| 097-0140-20                | Red/Rouge                  | 057-0461-11                      | 057-0462-21                      | M 15570-20                         | 4,00 to/à 5,50                       |
| 097-0140-20                | Red/Rouge                  | 057-0461-11                      | 057-0462-21                      | M 15570-20                         | 4,00 to/à 5,50                       |
| 097-0139-16                | Blue/Bleu                  | 057-0461-11                      | 057-0462-21                      | M 15570-16                         | 6,40 to/à 8,00                       |
| 097-0139-16                | Blue/Bleu                  | 057-0461-11                      | 057-0462-21                      | M 15570-16                         | 6,40 to/à 8,00                       |
| 097-0139-16                | Blue/Bleu                  | 057-0461-11                      | 057-0462-21                      | M 15570-16                         | 6,40 to/à 8,00                       |
| 097-0139-16                | Blue/Bleu                  | 057-0461-11                      | 057-0462-21                      | M 15570-16                         | 6,40 to/à 8,00                       |
| 097-0139-16                | Red/Rouge                  | 057-0461-11                      | 057-0462-21                      | M 15570-20                         | 4,00 to/à 5,50                       |
| 097-0139-16                | Red/Rouge                  | 057-0461-11                      | 057-0462-21                      | M 15570-20                         | 4,00 to/à 5,50                       |
| 097-0140-20                | Blue/Bleu                  | 057-0461-11                      | 057-0462-21                      | M 15570-16                         | 6,40 to/à 8,00                       |
| 097-0139-16                | Blue/Bleu                  | 057-0461-11                      | 057-0462-21                      | M 15570-16                         | 6,40 to/à 8,00                       |
| 097-0138-12                | Yellow/Jaune               | 057-0461-11                      | 057-0462-21                      | M 15570-12                         | 6,40 to/à 8,00                       |

Quadrax contacts / Contacts quadrax

For arrangements 18-02, 20-04 and 28-06 only / Pour les arrangements 18-02, 20-04 et 28-06 uniquement

| CONTACT KIT (CONTACTS + SLEEVE) / KIT CONTACT (CONTACTS + MANCHON) |                                   |               |                | TOOLS / OUTILLAGES                                  |                                              |             |
|--------------------------------------------------------------------|-----------------------------------|---------------|----------------|-----------------------------------------------------|----------------------------------------------|-------------|
| Arrangements<br>Arrangements                                       | Com. part number<br>Référence com | Type<br>Genre | Size<br>Taille | For size 24 contacts<br>Pour les contacts taille 24 | For contact body<br>Pour le corps de contact | Extraction  |
| 18-02                                                              | 182-0611-08<br>182-0612-08        | P<br>S        | 8              | M22520/2-01 + K709                                  | M22520/5-01<br>M22520/5-45B                  | 025-0711-06 |
| 20-04                                                              | 182-0611-08<br>182-0612-08        | P<br>S        | 8              | M22520/2-01 + K709                                  | M22520/5-01<br>M22520/5-45B                  | 025-0711-06 |
| 28-06                                                              | 182-0611-08<br>182-0612-08        | P<br>S        | 8              | M22520/2-01 + K709                                  | M22520/5-01<br>M22520/5-45B                  | 025-0711-06 |

# 983    Contacts and tools / Contacts et outillages

## Thermocouple contacts / Contacts thermocouples

| CONTACTS / CONTACTS                                   |               |                         |                                          |     |    |                            |              |   |                 |                   |             |
|-------------------------------------------------------|---------------|-------------------------|------------------------------------------|-----|----|----------------------------|--------------|---|-----------------|-------------------|-------------|
| Commercial<br>part number<br>Référence<br>Commerciale | Type<br>Genre | Size<br>index<br>Taille | Old<br>Part number<br>Ancienne Référence | MIL | EN | Color code<br>Code couleur |              |   | ind.            | Marking<br>Repère | Observation |
|                                                       |               |                         |                                          |     |    | 1                          | 2            | 3 |                 |                   |             |
| 006-1186-20<br>006-1187-20                            | P<br>S        | 20                      | 006-1131-20A<br>006-1134-20A             | -   | -  | Red<br>Rouge               | Red<br>Rouge | - | Yellow<br>Jaune | Ch                | Ch          |
| 006-1188-20<br>006-1189-20                            | P<br>S        | 20                      | 097-0173-20<br>097-0036-20               | -   | -  | Red<br>Rouge               | Red<br>Rouge | - | Noir<br>Black   | Al                | Al          |
| 006-1131-20<br>006-1134-20                            | P<br>S        | 20                      | 0641-14-2001<br>0603-16-2001             | -   | -  | Black<br>Noir              | -            | - | -               | Ch                | Ch          |
| 006-1132-20<br>006-1133-20                            | P<br>S        | 20                      | 0641-15-2001<br>0603-15-2001             | -   | -  | Orange<br>Orange           | -            | - | -               | Al                | Al          |
| 025-0402-20<br>025-0403-20                            | P<br>S        | 20                      | -                                        | -   | -  | Violet<br>Purple           | Red<br>Rouge | - | Noir<br>Black   | Al                | ■           |
| 025-0404-20<br>025-0405-20                            | P<br>S        | 20                      | -                                        | -   | -  | Violet<br>Purple           | Red<br>Rouge |   | Yellow<br>Jaune | Ch                | ■           |
| 006-0982-16<br>097-0037-16                            | P<br>S        | 16                      | -                                        | -   | -  | -                          | -            | - | -               | Ch                | Ch          |
| 006-0983-16<br>097-0036-16                            | P<br>S        | 16                      | 097-0173-16<br>097-0175-16               | -   | -  | -                          | -            | - | -               | Al                | Al          |

■ Standard barrel is the enlarged one. Le fût standard est un fût agrandi.

983    Contacts and tools / Contacts et outillages

| CABLES                        |                       | SEALING PLUG / OBTURATEUR |                  | CRIMPING TOOL / PINCE A SERTIR |                     | INSERTION AND EXTRACTION TOOL<br>OUTIL DE MONTAGE ET DE DEMONTAGE |            |
|-------------------------------|-----------------------|---------------------------|------------------|--------------------------------|---------------------|-------------------------------------------------------------------|------------|
| Section<br>mini - max.<br>mm² | AWG<br>Wire<br>Taille | MIL                       |                  | Part number<br>Référence       | Pilot stop<br>Butée | Wired contacts                                                    |            |
|                               |                       | Part number<br>Référence  | Color<br>Couleur |                                |                     | Contacts câblés<br>Insertion                                      | Extraction |
| 0,21 - 0,60                   | 24 - 20               | 097-0140-20               | Red/Rouge        | M 22520/1-01                   | M 22520/1-02        | M 15570-20                                                        | M 15570-20 |
| 0,21 - 0,60                   | 24 - 20               | 097-0140-20               | Red/Rouge        | M 22520/1-01                   | M 22520/1-02        | M 15570-20                                                        | M 15570-20 |
| 0,21 - 0,60                   | 24 - 20               | 097-0140-20               | Red/Rouge        | M 22520/1-01                   | M 22520/1-02        | M 15570-20                                                        | M 15570-20 |
| 0,21 - 0,60                   | 24 - 20               | 097-0140-20               | Red/Rouge        | M 22520/1-01                   | M 22520/1-02        | M 15570-20                                                        | M 15570-20 |
| 0,38 - 0,93                   | 22 - 18               | 097-0140-20               | Red/Rouge        | M 22520/1-01                   | M 22520/1-02        | M 15570-20                                                        | M 15570-20 |
| 0,38 - 0,93                   | 22 - 18               | 097-0140-20               | Red/Rouge        | M 22520/1-01                   | M 22520/1-02        | M 15570-20                                                        | M 15570-20 |
| 0,60 - 1,34                   | 20 - 16               | 097-0139-16               | Blue/bleu        | M 22520/1-01                   | M 22520/1-02        | M 15570-16                                                        | M 15570-16 |
| 0,60 - 1,34                   | 20 - 16               | 097-0139-16               | Blue/bleu        | M 22520/1-01                   | M 22520/1-02        | M 15570-16                                                        | M 15570-16 |



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### JAPAN

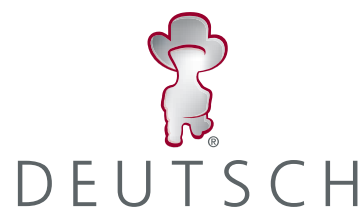
Deutsch Japan Ltd.  
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