



KVBS

BAYONET CONNECTORS FOR RAILWAY APPLICATIONS

Bayonet Connectors
with insert in Thermoplastic Resin



Radiall

VanSystem

About Us



Radiall has been enabling technology and innovation through collaboration with customers since 1952.

This has resulted in a range of innovative and award-winning products that customers trust for unrivaled repeatability and performance. Radiall's success is built on strong customer relationships and quality components, which have been established since its foundation.

With a focus on simplification and innovation, Radiall has become an industry leader in providing innovative solutions to customers. From connectors to in-house technologies, Radiall's commitment to collaboration and innovation has made it a trusted partner for customers looking to build the future.

The VanSystem brand in the Radiall world distinguishes "heavy duty" connectors for railways and industrial applications.

The name origin is related to VanSystem, an Italian company founded in Milan in 1985 and specialized in the design and production of industrial connectors.

During 30 years of activity the company has gained a strong market position by developing interconnection solutions compliant with the SAE AS 50151 (ex MIL-DTL-5015) standard and tailor-made connectors for the railway, machine tools, automation, construction sites, power supply, extractive industries markets.

In 2015 Radiall SA took over the company; Radiall Italia was born in 2021, from the merger between VanSystem srl and Radiall Elettronica srl.

Radiall Italia S.r.l. Quality System is qualified according ISO 9001:2015 and ISO/TS 22163:2017 (IRIS)



KVBS Connectors - Introduction

Bayonet Connectors with insert in Thermoplastic Resin



KVBS connector series derives from the RF CVBS one and it is based on Mil-DTL-5015 and VG95234 specs.

The most important advantage is the simpler and faster cable assembly.

Components materials have been chosen in order match railways vehicles requirements.

Key characteristics

- 3 ramps reverse bayonet
- Thermoplastic contact holder and insulator
- Contacts retained by a high elasticity clip
- Front grommet
- Rear side grommet supplied with holes closed by a flash of rubber and equipped with side gasket

Advantages

- Reliable mating even under vibrations, shock and sealing requirements
- Simpler and faster cable assembly
- More reliable contact retention inside the insulator
- When mated guarantee a better sealing and creepage distance between the contacts
- The connector can resist to axial pressure shock, the characteristics are maintained even when it is not fileld with all the contacts
- The size 16 contact cavity has a wider internal diameter able to accept flame retardant cableup to 2.5mm²

Material and plating *

| | |
|-------------------------------------|---|
| Shells | Alluminium alloy - can be protected against corrosion with the following plating process: CCF - Black passivation - conductive (<i>RoHS compliance</i>) Hard anodization (<i>RoHS compliance</i>) |
| Insulators | Thermoplastic resin according to UL 94 V0, flame retardant according to EN 45545-2 HL3 R22/23 (Meets NF F 16-101/NF F 16-102 standards) |
| Grommet and Interfacial Seal | Flame retardant rubber |

* Different materials and platings can be used on application request.

General characteristics

| | |
|------------------------------|--|
| Working temperature | -40°C ÷ +125°C (+ 100°C according NF F 61-030) |
| Insulation resistance | > 5.000 MΩ |
| IP protection degree | up to IP68 (waterproof to 10 meters - 12 hours) (when mated connectors with adequate accessories) |

Insulation according to NFF 61030 ***

| Operating voltage | Operating voltage | Test voltage | Creepage distance = Min insulation distance in air *** |
|--------------------------|--------------------------|---------------------|---|
| 500 Vdc | 380 Vac RMS | 3.250 Vac RMS | 8 ÷ 12 mm. Min |

*** Values are related to mated connectors

Part number explanation

P/N Sample: KVBS 303 030DAT 24-10SX M32 LC F7 G N101

| | | | | | | | | | | | | | | |
|---|------|-----|-----|----|---|-------|---|---|-----|----|---|----|---|------|
| - | KVBS | 303 | 030 | DA | T | 24-10 | S | X | M32 | LC | - | F7 | G | N101 |
|---|------|-----|-----|----|---|-------|---|---|-----|----|---|----|---|------|

| | | | |
|-------|--|-----------|---|
| - | Insulating material | - | Thermoplastic resin |
| KVBS | Series Code | KVBS | Bayonet Connector |
| | | KVBSG | Bayonet Connector with external insulated coating |
| 303 | Shell Material | - | Aluminum |
| | | 303 | Stainless Steel 303 (contact Sales office) |
| 030 | Shell Type | 316 | Stainless Steel 316L (contact Sales office) |
| | | xx | With ramp/threaded or with nut |
| DA | Connector Class | xx | With backshell |
| T | Connector Modification** | T | With plastic caps |
| | | FF | Receptacle connector with threaded holes (to specify for 00/02/05 shell only) |
| | | FP | Receptacle connector with through holes (to specify for 03 shell only) |
| | | GG | Rubber covered nut (bayonet version only) |
| 24-10 | Insert Arrangement | xx-xx | Size - Arrangement |
| S | Contact Gender | S | Socket contacts |
| | | P | Pin contacts |
| X | Polarization Code** | - | No rotation |
| | | W,X,Y,Z,Q | Rotation |
| M32 | Backshell Conduits size or internal thread | - | Without internal thread |
| | | xx | Conduits size or internal thread |
| LC | Contact Termination | - | Crimp contacts (pages 100/101) |
| | | LC | Less contacts |
| - | Contact Plating | - | Silver plating |
| | | CD5 | Gold plating |
| | | CDN | Gold plating NPGR |
| F26 | Shell finishes | F16 | CCF - Black passivation - conductive (RoHS compliance) |
| | | F26 | Black Hard Anodization (RoHS compliance) |
| | | F30 | colorless passivation for stainless steel (RoHS compliance) |
| G | Panel Gasket | - | Without gasket |
| | | G | With waterproof panel gasket |
| | | G3 | With waterproof shielded panel gasket |
| N101 | Modification Code** | Nxx | Contacts and hole plugs (Consult our sales office) |
| | | Sxx | Customization (Consult our sales office) |

** If required

Part number explanation

030 Shell type

| FF | FP | FS | Shell Type with ramp |
|-------|-----------|---|----------------------|
| ● ● ● | Shell 030 | Rear mounting receptacle connector with thread to accept backshells | |
| - - - | Shell 01 | In-line receptacle able to accept rear accessories. | |

● Standard version

● On request

FF = threaded holes FP = through holes FS = countersunk holes

| | | |
|-----|------------|---|
| 9 | 1 | Shell Type with coupling nut |
| | | Shell 06 Plug connector, for straight backshell |
| ● | Shell 61 | Plug connector, for straight backshell, coupling nut rubber covered (short version) |
| | Shell 06GG | Plug connector, for straight backshell with rubber covered coupling nut |
| ● | Shell 96 | Plug connector, provided with grounding finger - with straight backshell |
| | Shell 96GG | Plug connector, provided with grounding finger - with straight backshell - with rubber covered coupling nut |
| | Shell 08 | Plug connector, with 90° elbow |
| ● | Shell 81 | Plug connector, with 90° elbow, coupling nut rubber covered (short version) |
| | Shell 08GG | Plug connector, with 90° elbow with rubber covered coupling nut |
| ● | Shell 98 | Plug connector, with 90° elbow, with grounding finger |
| | Shell 98GG | Plug connector, with 90° elbow, with grounding finger with rubber covered coupling nut |
| ● ● | Shell 961 | Plug connector, provided with grounding finger - with straight backshell, coupling nut rubber covered (short version) |
| ● ● | Shell 981 | Plug connector, provided with grounding finger - with 90° elbow, coupling nut rubber covered (short version) |

● Available

9 = with grounding finger 1 = rubber covered coupling nut, short version

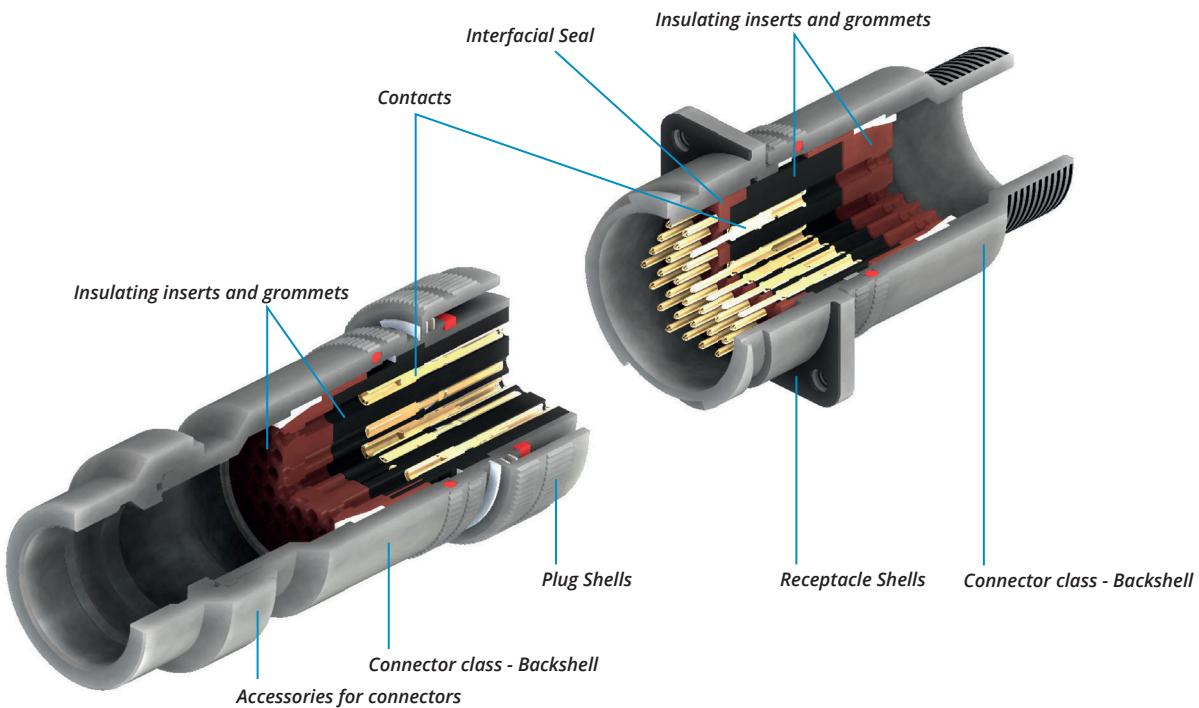
DA Connector Class - backshell

- 1 Without O-ring and Grommet (non-watertight)
- 2 With waterproof O-ring
- 3 With waterproof O-ring and Grommet

| KVBS | KVBSG | 1 | 2 | 3 | Connector Class - backshell |
|------|-------|---------|--------|-----|---|
| ● | - | A | DA | RA | Backshell having an external thread suitable for MS3057...A or C type cable-clamps |
| ● | - | SA | SDA | SRA | Short Backshell having an external thread suitable for MS3057...A or C type cable-clamps |
| ● ● | | DA..M | RA..M | | Provided with an internal Metric thread |
| ● | - | | R | | Suitable to connect single wires (when strain relief is not necessary) |
| ● | - | AST | ST | | Backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an external unef thread |
| ● | - | AST..M | ST..M | | Backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an internal Metric thread |
| ● | - | AST..FS | ST..FS | | Backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with a special adapter for UNI4883 rubber conduits |
| ● | - | DA..FS | RA..FS | | Provided with a special adapter for UNI4883 rubber conduits |

● Available

General Characteristics



INSERTS

VanSystem is able to offer connectors with 11 Arrangements manufactured in Thermoplastic material.

The connectors are supplied with interfacial seal to guarantee the sealing of mating over the entire area of the interface and around each contact.

SHELLS

Available in several versions suitable for all applications and manufactured in different materials and finishes:

- Aluminum alloy with different types of protection finishes according to RoHS directives.
- Stainless steel, brass nickel plated and other materials to be chosen according to the application
- Coupling nut in bayonet version

The bayonet connectors provide faster coupling and anti-vibration resistance.

In the KVBS serie the coupling system is composed of 3 bayonet ramps machined on the external side of the receptacle connector and 3 stainless steel studs mounted inside the plug connector's coupling nut.

CONTACTS

Available in crimp, machined copper alloys and finished with gold or silver platings.

All contacts are manufactured in order to guarantee optimum connection properties and to provide resistance to vibration and continuous mating and unmating cycles.

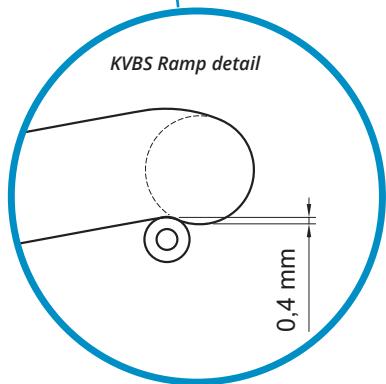
KVBS - General Characteristics



BAYONET CONNECTORS PROTECTED BY A STAINLESS STEEL STUD

This series, deriving from Mil-DTL-5015 and VG95234 specs, has become a popular standard among railway connection applications.

The coupling point at the end of the ramp is protected by a stainless steel roller able to increase the number of mating cycles.



Main characteristics:

- Fast and reliable coupling (coupling-nut rotation of 120° only and mating is audible, visible and tactile)
- Vibration and impact resistance
- Manufactured in several shell versions as panel connectors (with front or rear mounting) or plug connectors (with straight backshell or 90°)
- Accessories for all types of cables and shielding protection hoses are also available
- Crimp contacts are suitable for wires of many sections

Advantages:

- Faster coupling, continuous and reliable service in the harshest use conditions
- Wave washer installed under the plug connector coupling nut
- IP68 waterproof protection (when connectors are mated and harnessed by using the correct accessories)



Circular Connectors

International Standard Document Compliance

- MIL-DTL-5015: Connectors, Electrical, Circular threaded, an type, general specification for
- SAE AS 39029: Contacts, Electrical Connectors, general specification for
- VG 95234: Electrical connectors with bayonet coupling pressure-water tight, up to 245A
- EN 50124-1: Railway applications - Insulation coordination
- IEC 60077-1: Railway applications - Electric equipment for rolling stock
- EN 45545-2: Railway applications - Fire protection on railway vehicles
- NFPA 130 (ASTM E 162, ASTM E 662): Standard for Fixed Guideway Transit and Passenger Rail Systems
- UNI CEI 11170-3 : Guidelines for railway vehicle protection for tramways and with guided rail
- NFF 16-102: Railway Rolling Stock - Fire Behavior
- EN 50467: Railway applications - Rolling stock - Electrical connectors, requirements and test methods
- IEC 61373: Railway applications. Rolling stock equipment. Shock and vibration tests
- IEC 60529: Degrees of protection provided by enclosures (IP Code)
- European Directive 2011/65: RoHS complying

Features and Benefits

Robust Connection

- Fully protected connectors: no risk to damage the contacts thanks the robust shell
- Supplied with grounding finger, conductive plating and the proper rear accessory
- Suitable for polarizations to prevent un-correct coupling

Easy installation

- Fast and reliable coupling
- Backshell and accessories for fastening cable/conduit fixation

Suitable for harsh environments (adapted for outdoor use)

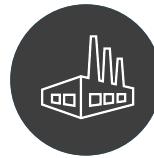
- Waterproof connection
- Dust proof
- Corrosion resistant

High level of performance

- Working temperature -40°C ÷ 125°C (according to the inserts material)
- EMI protection with grounding finger
- Power connection up to 73A

APPLICATIONS

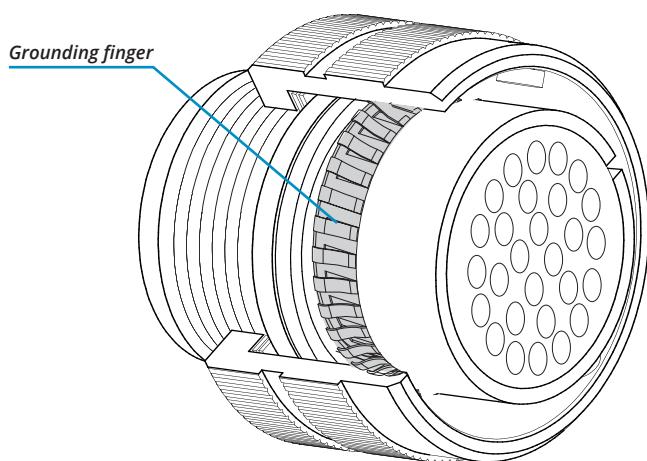
- Railway
- Energy
- Naval
- Industrial



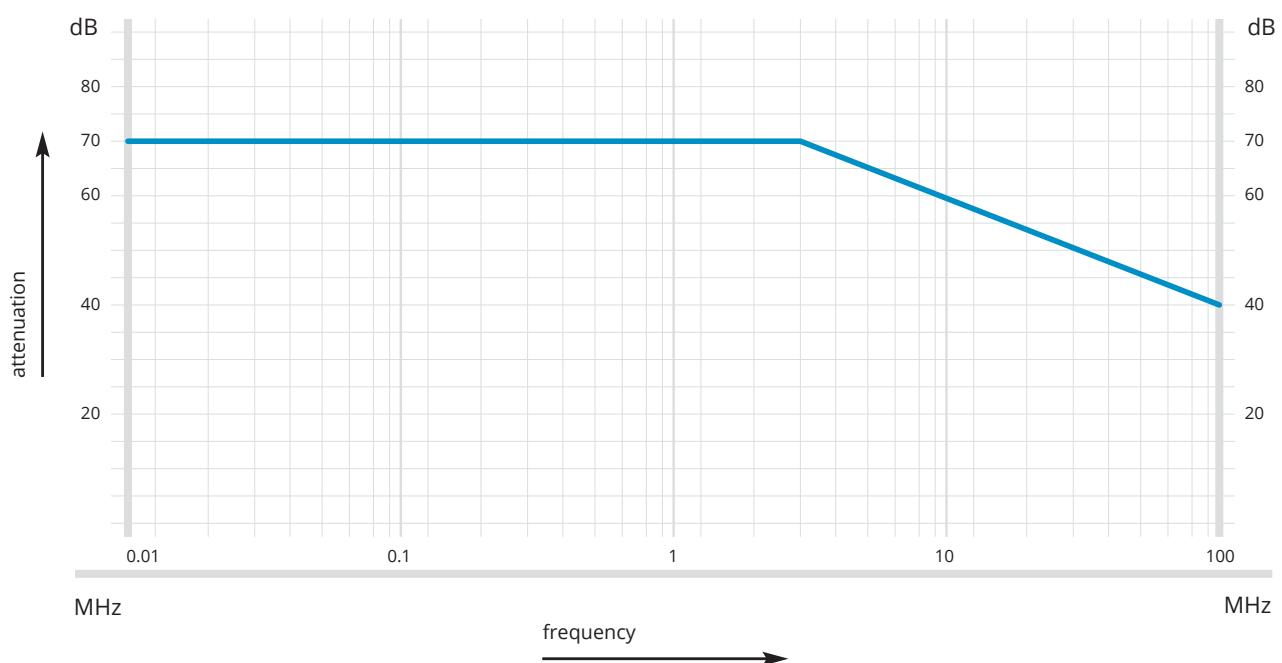
General Characteristics - Shells - Shielding characteristics

Plug connectors with grounding finger (type 96 - 98 - 96GG - 98GG) when mated with receptacle connectors (type 030) and provided with rear accessories for shielded cables have shielding characteristics according to VG95234 specs.

F16 Shell Finishes is recommended for electrical conductivity from receptacle to plug.



VG95234 specs: Shielding effectiveness data over frequency range (with conductive shells)



General Characteristics - Shells - Material and Finish



Shells

They are manufactured in aluminum alloy or stainless steel and can be protected against corrosion by the following finishes (Halogen-free):

- **F16** : CCF-Black passivation (conductive) - complies RoHS directives (*)
- **F26** : Hard anodization (RoHS compliance)
- **F30** : Colorless passivation for stainless steel (for AISI 303 and AISI 304. Without passivation for AISI 316L)

(*) *Restriction of Hazardous Substances Directives of the European Parliamentn°2002/95/EC issued on 27 January 2003*
Alternative materials and finishes are available to suit specific requirements.

| Surface Treatment Code | F16 | F26 | F30 |
|---|-------------------------|-------------------------|-------------------------|
| Shell-material | Aluminium alloy | | Stainless Steel |
| Surface finish | CCF cadmium free | Hard anodization | Colorless |
| Type of surface | passivated | passivated | passivated |
| Surface colour | black | black | - |
| Rohs conformity | yes | yes | yes |
| Corrosion resistance | 500*** h | 1000 h ** | > 2000 h |
| Operat. Temperature | | -40°C ÷ + 125°C ** | |
| Electrical conductivity | good | non-conductive | good |
| Shock and vibrations tests according EN 61373 | Cat. 2 bogie mounted | Cat. 2 bogie mounted | Cat. 2 bogie mounted |

IP protection degree (EN 60529)

** *Consult our sales office*

*** *200h in case of components, panel and screws in stainless steel (galvanic corrosion)*

Mechanical Characteristics

| | |
|---------------------------------------|--|
| Coupling mechanism | Reverse Bayonet Connector |
| Mating endurance (IEC 61300-2-2) | 500 mating cycles minimum (for use up to 2000 mating cycles, consult our commercial office) |
| Shock and vibrations tests (EN 61373) | Category 1 body mounted Category 2 bogie mounted |

General Characteristics - Rated Current and Rated Voltage



The values mentioned below are valid for usage at 20°C ambient temperature. Let us remind you that:

- when temperatures rise, the conductivity of the contacts and therefore the value of the applicable current decreases
- at the operating current and 20°C ambient temperature the connection temperature increases anyway
- in consequence to all of the above, the current applicable to a given temperature and a determined contact size must be carefully considered

The material of the insert must be chosen to comply with both room temperature and the one produced by the electrical connection.

If in doubt we suggest you consult our Sales Office.

| Contact size | Maximum current* | Rated current*** | Maximum voltage drop** | Test current |
|--------------|------------------|------------------|------------------------|--------------|
| 16 | 22A | 13A | 49mV | 13A |
| 12 | 41A | 23A | 42mV | 23A |
| 8 | 73A | 46A | 26mV | 46A |

Rated current with one contact loaded in a contact arrangement.

* Valid for ambient temperature at 20°C.

** Test according to SAE AS39029 with silver plated wire.

*** Valid for ambient temperature at 80°C.

INSULATING CHARACTERISTICS AND RATED VOLTAGE

The values of the following table:

- are valid for usage at sea level
- refer to a clean environment of application. The pollution due to metallic or other impurities has to be taken into consideration.
- concern contacts with standard termination, solder or crimping, with size suitable for AWG section wires matching the relevant contact size. It is therefore necessary to pay attention when using contacts with crimp termination bigger than the nominal AWG size.

| Service code | Operating Voltage Vdc | Operating Voltage Vac RMS**** | Test Voltage Vac RMS**** |
|-----------------|-----------------------|-------------------------------|--------------------------|
| I (instruments) | 250 | 200 | 1000 |
| A | 700 | 500 | 2000 |
| D | 1250 | 900 | 2800 |
| E | 1750 | 1250 | 3500 |
| B | 2450 | 1750 | 4500 |
| C | 4200 | 3000 | 7000 |

** The connectors do not show any sign of breakdown when the voltage indicated in the table is applied for one minute between the two closest contacts and between the shell and the contact closest to the shell.*

Caution : When nominal operating voltage exceeds 50V towards earth, the appropriate safety measures have to be adopted as described by CEI 23, IEC 309-1, BS 2618, VDE 0100 specs. The data shown on the above table are applicable only when the above mentioned safety rules are fulfilled.

*** according MIL-DTL-5015 spec

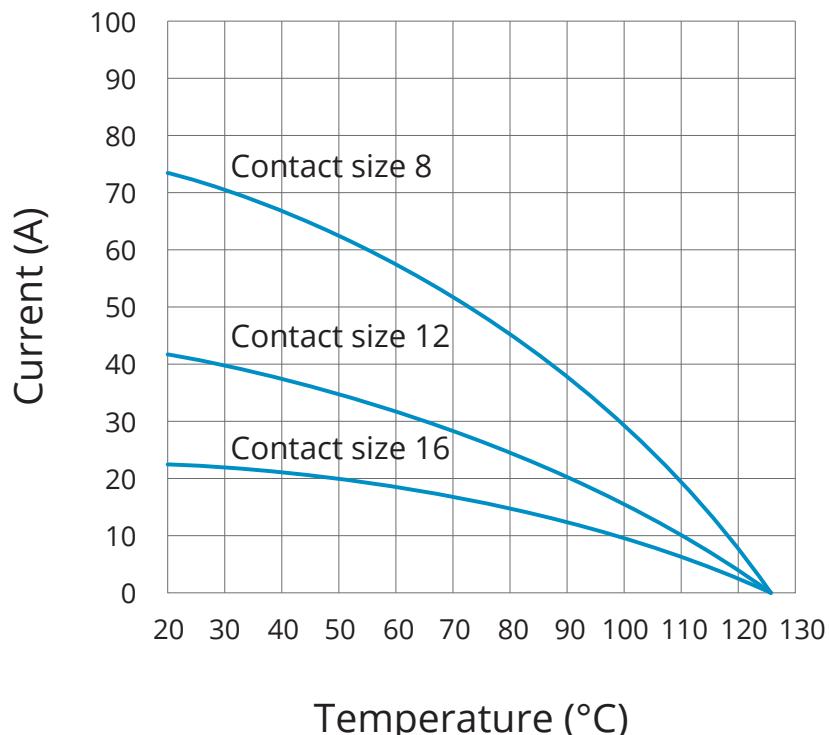
General Characteristics - Contacts - Electrical characteristics

RATED CURRENT

Recommended current according to the temperature.

Rated current with one contact loaded in a contact arrangement.

Electrical design and production parameters of threaded or bayonet coupling connectors are derived from Mil-DTL-5015 and VG 95234 standards. All circular connectors are produced and tested in accordance of VG 95234 standards.



General Characteristics - Crimp Contacts

They are machined in high conductivity copper alloy in order to guarantee optimum connection properties and to provide resistance to vibration and continuous mating and unmating cycles.

They are protected by a silver (standard production) or gold finish with varying plating thickness on request.

As for connector codes to be supplied with specific finish contacts please consult the section referring to the P/N explanations on page 4.

Contacts for particular applications, alternative termination types and with special finishes are available to suit specific requirements.

Engagement and disengagement force between contacts

| Contact size | Engagement * in N. Max | Disengagement * in N. Max |
|--------------|------------------------|---------------------------|
| 16 | 5 | 0.56 |
| 12 | 7.5 | 0.83 |
| 8 | 15 | 1.39 |

* Test according to SAE AS39029

| | |
|-------------------|--------------------------------|
| Contact Retention | 16 contact size = 70 N minimum |
| | 12 contact size = 90 N minimum |
| | 8 contact size = 110 N minimum |

Crimp Rating

| Inserts Arrangement | Contact Resistance mΩ max. | Contact size | Nº of Contacts | Rated Current* A | |
|---------------------|----------------------------|--------------|----------------|------------------|------------------|
| | | | | Single Contact | Grouped Contacts |
| 18-19 | 2.5 | 16 | 10 | 15 | 12 |
| 20-15 | 1.3 | 12 | 7 | 23 | 20 |
| 22-14 | 2.5 | 16 | 19 | 15 | 11.5 |
| 24-10 | 0.9 | 8 | 7 | 46 | 33 |
| 28-21 | 2.5 | 16 | 37 | 15 | 12 |
| 36-10 | 2.5 | 16 | 48 | 15 | 7.5 |
| 36A22 | 1.3 | 12 | 22 | 23 | 19 |
| 40A35 | 1.3 | 12 | 35 | 23 | 15.5 |
| 40A60 | 2.5 | 16 | 60 | 15 | 9 |
| 40A70 | 2.5 | 16 | 70 | 15 | 7.5 |

* Acc. To NF F 61-030. Max heating allowed: 50°C

Single Contact: loaded into insulator. - Grouped Contacts: fully populated insulator, all contacts loaded.

Insulating Inserts and Grommets - List by Shell size / Alternate Positions

KVBS - Inserts Arrangement

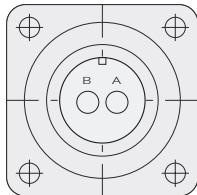
The following table lists the possible available positions for each arrangement.

| Grommet | Inserts Arrangement | N° of Contacts | Contacts Size / Current Rating | | | Service Rating (Mil-DTL-5015) | Degrees for alternate positions | | | |
|---------|---------------------|----------------|--------------------------------|-----------|-----------|-------------------------------|---------------------------------|-----|-----|-----|
| | | | 8 46A | 12 23A | 16 13A | | W | X | Y | Z |
| ● | 18-19 | 10 | | | 10 | A (700 Vdc - 500 Vac) * | - | 120 | 240 | - |
| ● | 20-15 | 7 | | 7 | | A (700 Vdc - 500 Vac) * | 80 | - | - | 280 |
| ● | 22-14 | 19 | | | 19 | A (700 Vdc - 500 Vac) * | 80 | 110 | 250 | 280 |
| ● | 24-10 | 7 | 7 | | | A (700 Vdc - 500 Vac) * | 80 | - | - | 280 |
| ● | 28-21 | 37 | | | 37 | A (700 Vdc - 500 Vac) * | 80 | 110 | 250 | 280 |
| ● | 36-10 | 48 | | | 48 | A (700 Vdc - 500 Vac) * | 80 | 125 | 235 | 280 |
| ● | 36A22 | 22 | | 22 | | D (1250 Vdc - 900 Vac) * | 80 | 110 | 250 | 280 |
| ● | 40A35 | 35 | | 35 | | D (1250 Vdc - 900 Vac) * | 70 | 130 | 230 | 290 |
| ● | 40A60 | 60 | | | 60 | A (700 Vdc - 500 Vac) * | 80 | 110 | 250 | 280 |
| ● | 40A70 | 70 | | | 70 | A (700 Vdc - 500 Vac) * | 80 | 110 | 250 | 280 |

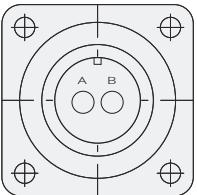
● Grommet Available

* Rated voltage 380Vac / 500Vac - Test Voltage 3.250Vac RMS (according NF F 61-030)

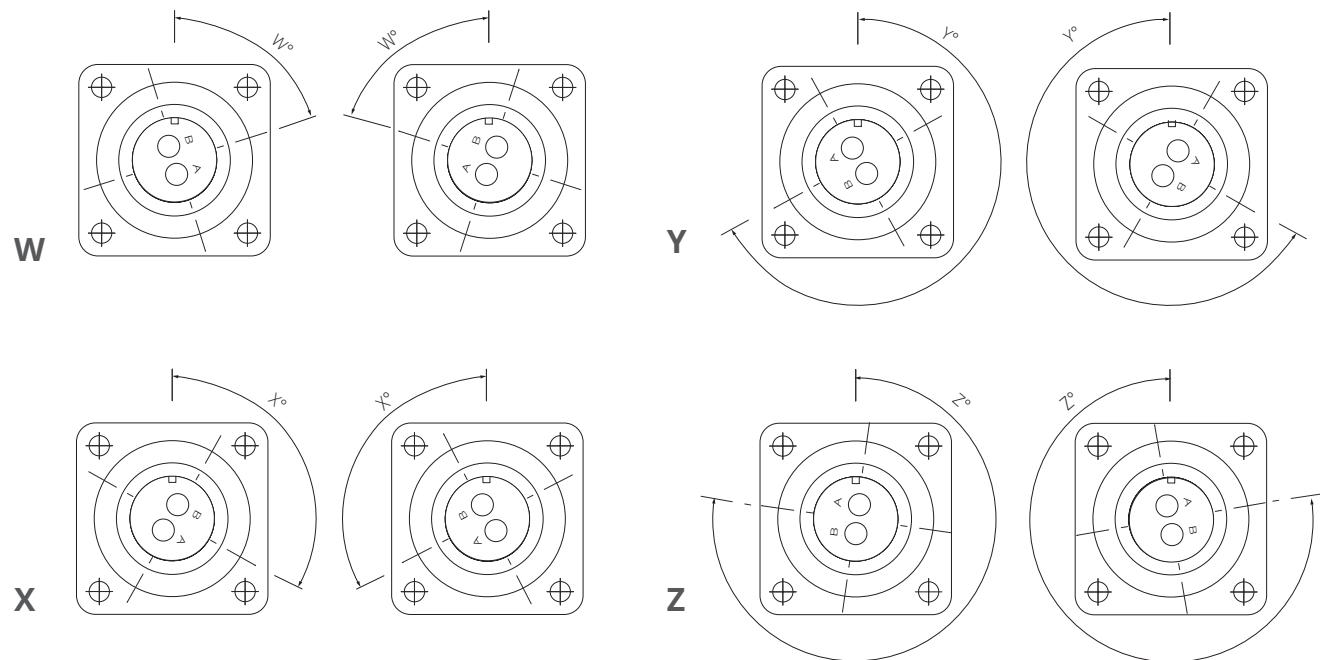
When more than one connector with the same arrangement is mounted on the same panel, it is advisable to orientate the connector. This means to rotate the insert with respect to the polarization key so that the connector can only be mated with the correct mating half.



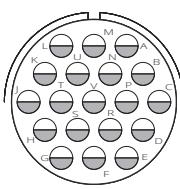
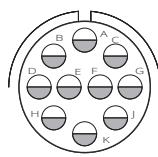
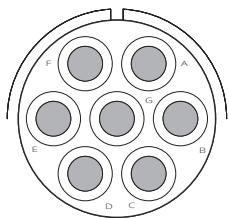
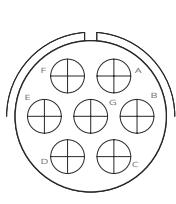
Front view mating side
Pin insert
Insert rotation



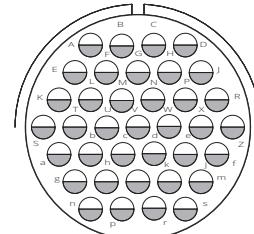
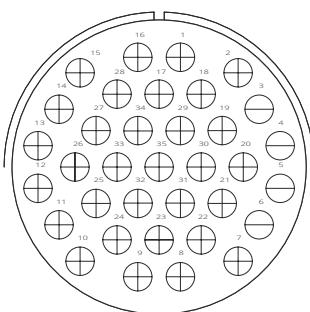
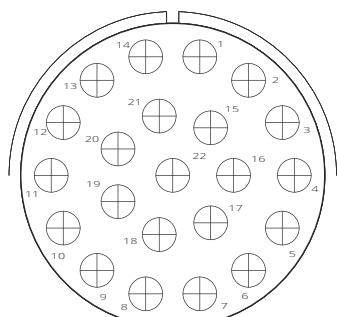
Front view mating side
Socket insert
Insert rotation



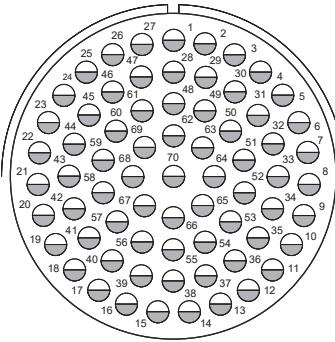
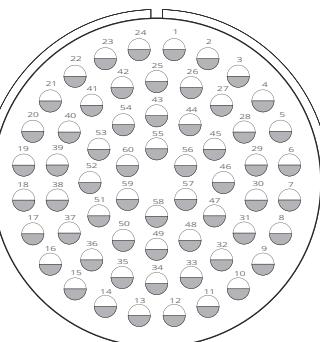
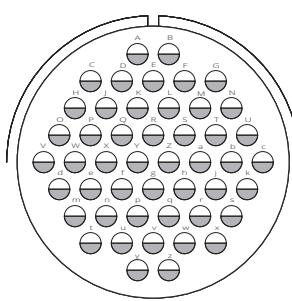
Insulating Inserts and Grommets - List by contacts total quantity



| Insert Arrangement | 20-15 | 24-10 | 18-19 | 22-14 |
|---------------------------------|----------------------|----------------------|----------------------|-------------------|
| N° of Contacts | 7 | 7 | 10 | 19 |
| Contact Size/ Current rating | 12 (23A) | 8 (46A) | 16 (13A) | 16 (13A) |
| Service Rating | A 700 Vdc 500 Vac | A 700 Vdc 500 Vac | A 700 Vdc 500 Vac | A 700 Vdc 500 Vac |
| Grommet | ● | ● | ● | ● |



| Insert Arrangement | 36A22 | 40A35 | 28-21 |
|---------------------------------|--------------------|--------------------|-------------------|
| N° of Contacts | 22 | 35 | 37 |
| Contact Size/ Current rating | 12 (23A) | 12 (23A) | 16 (13A) |
| Service Rating | D 1250 Vdc 900 Vac | D 1250 Vdc 900 Vac | A 700 Vdc 500 Vac |
| Grommet | ● | ● | ● |



| Insert Arrangement | 36-10 | 40A60 | 40A70 |
|---------------------------------|-------------------|-------------------|-------------------|
| N° of Contacts | 48 | 60 | 70 |
| Contact Size/ Current rating | 16 (13A) | 16 (13A) | 16 (13A) |
| Service Rating | A 700 Vdc 500 Vac | A 700 Vdc 500 Vac | A 700 Vdc 500 Vac |
| Grommet | ● | ● | ● |

● Grommet Available

Front view Pin contacts insert

ST Contacts size legend

16 12 8

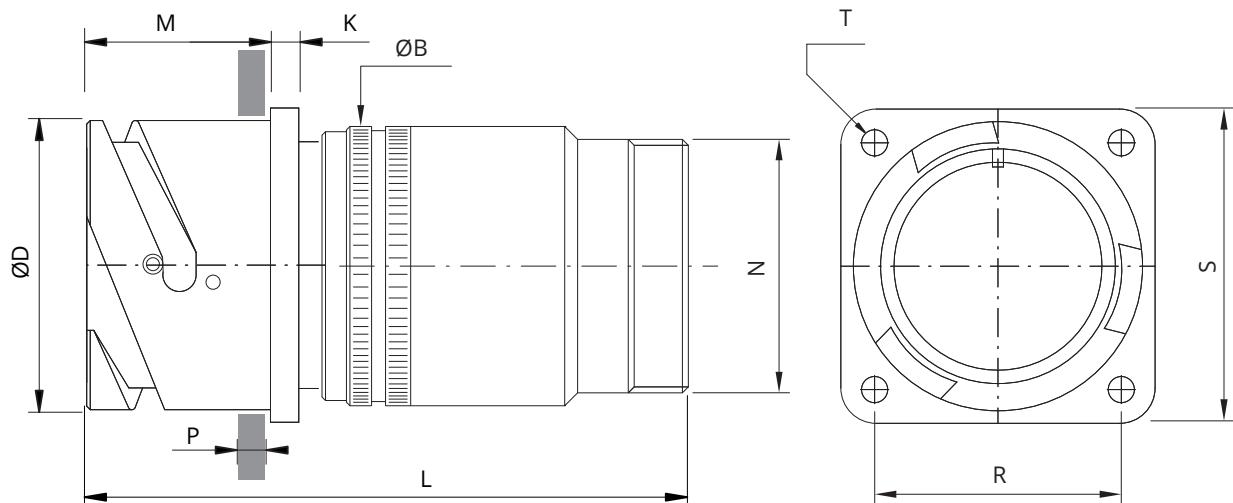
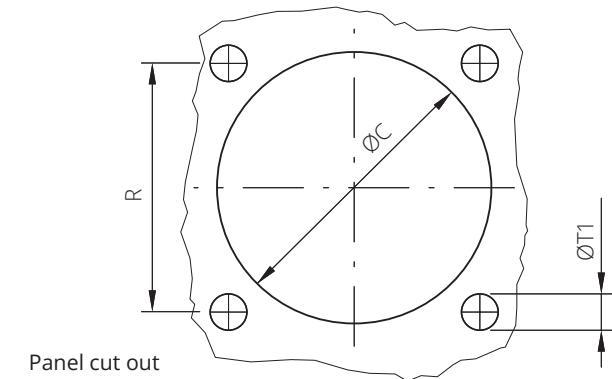


KVBS - Bayonet Connector with protected mating ramps

Rear Mounting Receptacle (030) with Backshell Class (A - DA - RA)

Connector with backshell provided with an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately).

SHELL



| Shell size | ØD +0 -0.15 | ØB ±0.2 | L | M ±0.2 | K ±0.2 | N Backshell Thread in inches | R ±0.1 | S ±0.3 | ØT | ØT1 | ØC ±0.2 | P Panel Thickness Max |
|------------|-------------------|------------|-----|-----------|-----------|------------------------------------|-----------|-----------|----|-----|------------|-----------------------------|
| 18 | 30.8 | 30 | 100 | 23.4 | 4 | 1"-20 UNEF | 27 | 34.9 | M4 | 4.5 | 31.7 | 7.25 |
| 20 | 34.2 | 32 | 100 | 23.4 | 4 | 1" 3/16-18 UNEF | 29.4 | 38.1 | M4 | 4.5 | 35 | 7.3 |
| 22 | 37.4 | 37 | 100 | 23.4 | 4 | 1" 3/16-18 UNEF | 31.8 | 41 | M4 | 4.5 | 38.3 | 7.3 |
| 24 | 40.9 | 40 | 105 | 23.4 | 4 | 1" 7/16-18 UNEF | 34.9 | 44.5 | M4 | 4.5 | 41.8 | 6.85 |
| 28 | 46.7 | 45 | 105 | 24.4 | 4 | 1" 7/16-18 UNEF | 39.7 | 50.8 | M5 | 5.5 | 47.6 | 7.8 |
| 36 | 59.6 | 58 | 125 | 24.4 | 4 | 2"-18 UNS | 49.2 | 63.5 | M5 | 5.5 | 60.5 | 7.5 |
| 40 | 65.5 | 63.8 | 125 | 24.4 | 4 | 2"1/4-16 UN | 55.6 | 69.8 | M5 | 5.5 | 66.4 | 7.5 |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code: KVBS, Shell Material: 030, Shell Type: DA, Connector Class: T, Insert Arrangement: 24-10, Contact Gender: S, Contact Termination: LC, Contact Plating: F26, Panel Gasket: G, Shell finish: N

Shell finish: N

| | | | | | | | |
|--------------|---------------------------------|-------------|---|------------|----------------------------|------------|--|
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | S | Contact Gender | S | Socket contacts |
| 030 | Shell Type | 030 | Rear mounting Receptacle | P | | P | Pin contacts |
| DA | Connector Class | A | non watertight | X | Polarization Code** | | Page 14 |
| | | DA | with waterproof O-ring (IP67***) | LC | Contact Termination | LC | Less contacts |
| | | RA | with waterproof O-ring and grommet (IP67***) | - | Contact Plating | - | Silver plating |
| | | T | With plastic caps | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | Connector Modification** | - | Receptacle connector with threaded holes | | | F26 | hard anodization (*) |
| | | FP | Receptacle connector with through holes | G | Panel Gasket | - | Without gasket |
| 24-10 | Insert Arrangement | | Page 14 | | | G | With waterproof panel gasket |
| | | | | | | G3 | With waterproof shielded panel gasket |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

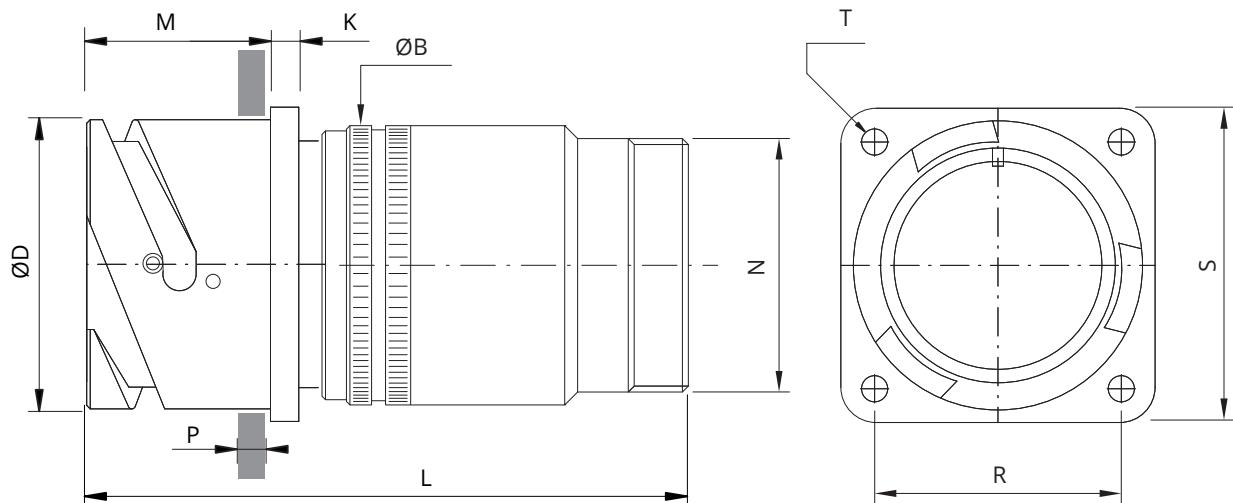
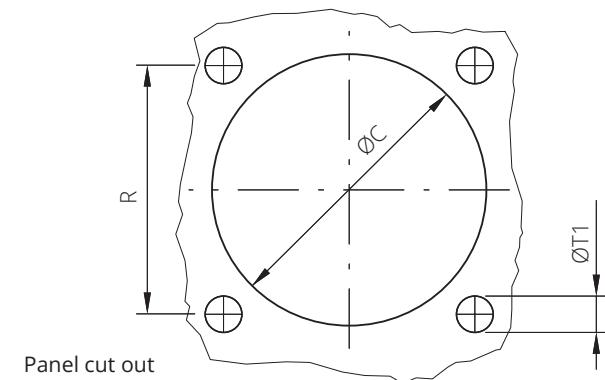
P/N Sample: KVBS 030DAT 24-10SX LC F26 G N

KVBS - Bayonet Connector with protected mating ramps

Rear Mounting Receptacle (030) with Backshell Class (SA - SDA - SRA)

Connector with short backshell provided with an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately).

SHELL



| Shell size | ØD +0 -0.15 | ØB ±0.2 | L | M ±0.2 | K ±0.2 | N Backshell Thread in inches | R ±0.1 | S ±0.3 | ØT | ØT1 | ØC ±0.2 | P Panel Thickness Max |
|------------|-------------------|------------|----|-----------|-----------|------------------------------------|-----------|-----------|----|-----|------------|-----------------------------|
| 18 | 30.8 | 30 | ** | 23.4 | 4 | 1"-20 UNEF | 27 | 34.9 | M4 | 4.5 | 31.7 | 7.25 |
| 20 | 34.2 | 32 | ** | 23.4 | 4 | 1" 3/16-18 UNEF | 29.4 | 38.1 | M4 | 4.5 | 35 | 7.3 |
| 22 | 37.4 | 37 | ** | 23.4 | 4 | 1" 3/16-18 UNEF | 31.8 | 41 | M4 | 4.5 | 38.3 | 7.3 |
| 24 | 40.9 | 40 | ** | 23.4 | 4 | 1" 7/16-18 UNEF | 34.9 | 44.5 | M4 | 4.5 | 41.8 | 6.85 |
| 28 | 46.7 | 45 | ** | 24.4 | 4 | 1" 7/16-18 UNEF | 39.7 | 50.8 | M5 | 5.5 | 47.6 | 7.8 |
| 36 | 59.6 | 58 | ** | 24.4 | 4 | 2"-18 UNS | 49.2 | 63.5 | M5 | 5.5 | 60.5 | 7.5 |
| 40 | 65.5 | 63.8 | ** | 24.4 | 4 | 2"1/4-16 UN | 55.6 | 69.8 | M5 | 5.5 | 66.4 | 7.5 |

** Consult our sales office

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

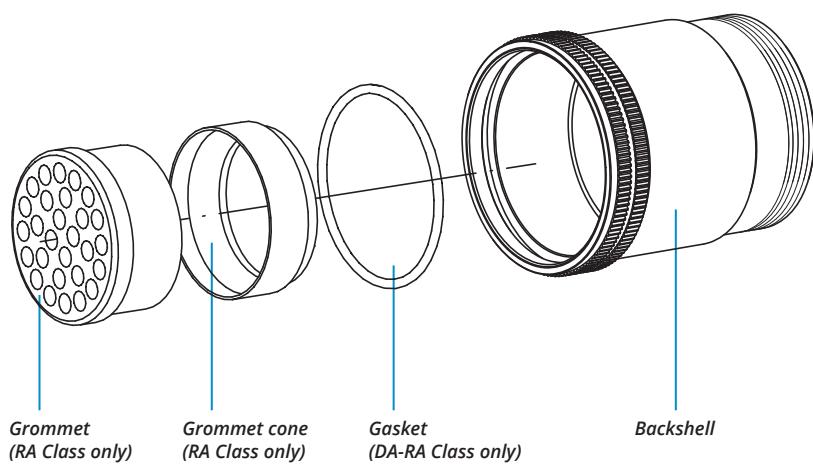
KVBS - Bayonet Connector with protected mating ramps



Series Code Shell Material Shell Type Connector Class

Shell finish

SHELL



| | | | | | | | |
|--------------------------|-----------------------------------|-------------|---|--------------------------|----------------------------|------------|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> | Contact Gender | S | Socket contacts |
| <input type="checkbox"/> | KVBS Series Code | KVBS | Bayonet Connector with protected mating ramps | <input type="checkbox"/> | Polarization Code** | P | Pin contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> | Contact Termination | LC | Less contacts |
| <input type="checkbox"/> | 030 Shell Type | 030 | Rear mounting Receptacle | <input type="checkbox"/> | Contact Plating | - | Silver plating |
| <input type="checkbox"/> | SDA Connector Class | SA | non watertight | <input type="checkbox"/> | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | | SDA | with waterproof O-ring (IP67***) | <input type="checkbox"/> | | F26 | hard anodization (*) |
| | | SRA | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> | | - | Without gasket |
| <input type="checkbox"/> | T Connector Modification** | T | With plastic caps | <input type="checkbox"/> | Panel Gasket | G | With waterproof panel gasket |
| | | - | Receptacle connector with threaded holes | <input type="checkbox"/> | | G3 | With waterproof shielded panel gasket |
| <input type="checkbox"/> | 24-10 Insert Arrangement | | Page 14 | | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

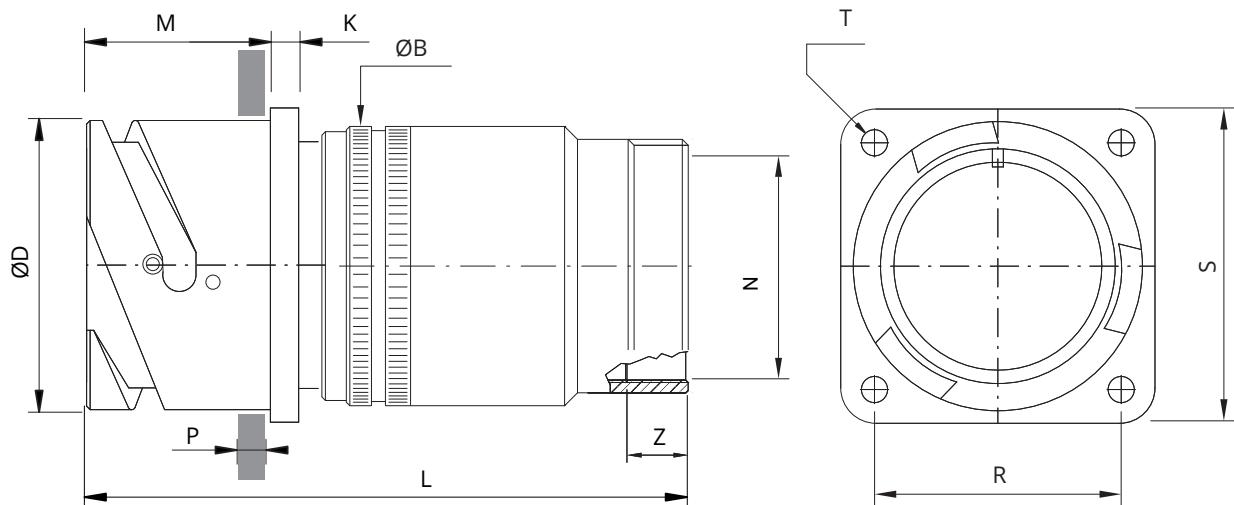
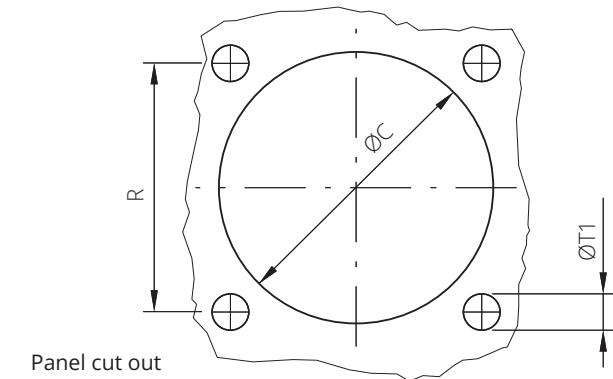
P/N Sample: KVBS 030SDAT 24-10SX LC F26 G N

KVBS - Bayonet Connector with protected mating ramps

Rear Mounting Receptacle (030) with Backshell Class (DA..M - RA..M)

Connector with backshell provided with an internal Metric thread suitable for cable glands or conduit adapters.

SHELL



| Shell size | ØD +0 -0.15 | ØB ±0.2 | L | M ±0.2 | K ±0.2 | Z min | N | Backshell Metric Thread | R ±0.1 | S ±0.3 | ØT | ØT1 | ØC ±0.2 | P Panel Thickness Max |
|------------|-------------------|------------|-----|-----------|-----------|-------|-----------|-------------------------|-----------|-----------|----|-----|------------|-----------------------|
| 18 | 30.8 | 30 | 100 | 23.4 | 4 | * | M20 | | 27 | 34.9 | M4 | 4.5 | 31.7 | 7.25 |
| 20 | 34.2 | 32 | 100 | 23.4 | 4 | 16 | M25 | | 29.4 | 38.1 | M4 | 4.5 | 35 | 7.3 |
| 22 | 37.4 | 37 | 100 | 23.4 | 4 | * | M25 | | 31.8 | 41 | M4 | 4.5 | 38.3 | 7.3 |
| 24 | 40.9 | 40 | 105 | 23.4 | 4 | * | M32 | | 34.9 | 44.5 | M4 | 4.5 | 41.8 | 6.85 |
| 28 | 46.7 | 45 | 105 | 24.4 | 4 | 15 | M32 - M40 | | 39.7 | 50.8 | M5 | 5.5 | 47.6 | 7.8 |
| 36 | 59.6 | 58 | 125 | 24.4 | 4 | * | M40 | | 49.2 | 63.5 | M5 | 5.5 | 60.5 | 7.5 |
| 40 | 65.5 | 63.8 | 125 | 24.4 | 4 | * | M50 | | 55.6 | 69.8 | M5 | 5.5 | 66.4 | 7.5 |

Dimensions in mm

* On Request

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



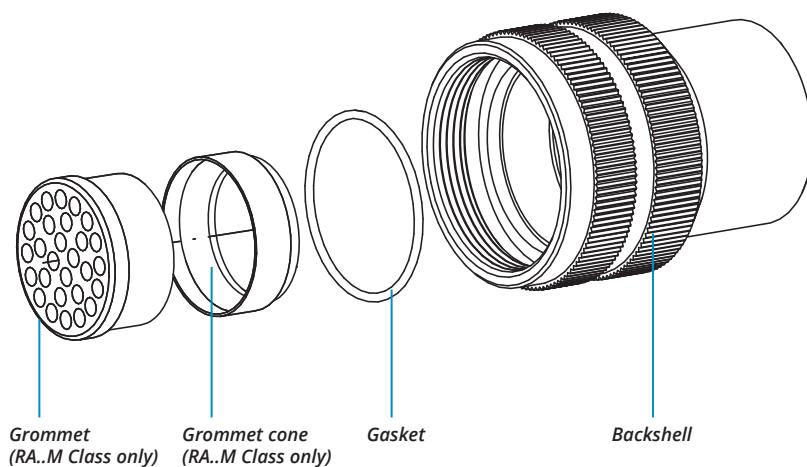
Series Code

Shell Type

Connector Class

Backshell internal thread

Shell finish



| | | | | | |
|--|--------------------------|---|------------------------------|---------------------------|--|
| <input type="checkbox"/> Insulating material | - | Thermoplastic resin | <input type="checkbox"/> X | Polarization Code** | Page 14 |
| <input type="checkbox"/> KVBS | Series Code | KVBS | <input type="checkbox"/> M20 | Backshell internal thread | Mxx |
| | | Bayonet Connector with protected mating ramps | | | Provided with an internal Metric thread |
| <input type="checkbox"/> 030 | Shell Type | 030 | <input type="checkbox"/> LC | Contact Termination | LC |
| | | Rear mounting Receptacle | | | Less contacts |
| <input type="checkbox"/> DA | Connector Class | DA | <input type="checkbox"/> F26 | Shell finish | F16 |
| | | with waterproof O-ring (IP67***) | | | CCF - Black passivation (*) - conductive |
| | | RA | | | F26 |
| | | with waterproof O-ring and grommet (IP67***) | | | hard anodization (*) |
| <input type="checkbox"/> T | Connector Modification** | T | | | - |
| | | With plastic caps | | | Without gasket |
| | | - | <input type="checkbox"/> G | Panel Gasket | G |
| | | Receptacle connector with threaded holes | | | With waterproof panel gasket |
| | | FP | | | G3 |
| | | Receptacle connector with through holes | | | With waterproof shielded panel gasket |
| <input type="checkbox"/> 24-10 | Insert Arrangement | | <input type="checkbox"/> N | Modification Code** | N |
| | | Page 14 | | | |
| <input type="checkbox"/> S | Contact Gender | S | | | S |
| | | Socket contacts | | | Consult our sales office |
| | | P | | | |
| | | Pin contacts | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

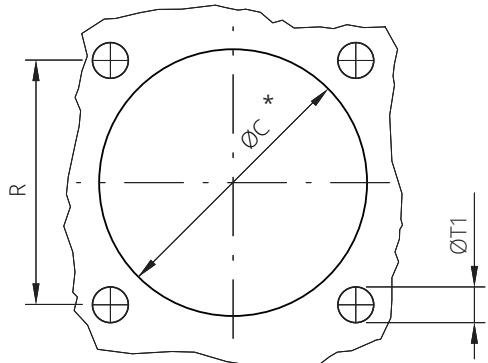
P/N Sample: KVBS 030DAT 24-10SX M20 LC 26 G N

KVBS - Bayonet Connector with protected mating ramps

Rear Mounting Receptacle (030) with Backshell Class (DA...FS - RA...FS)

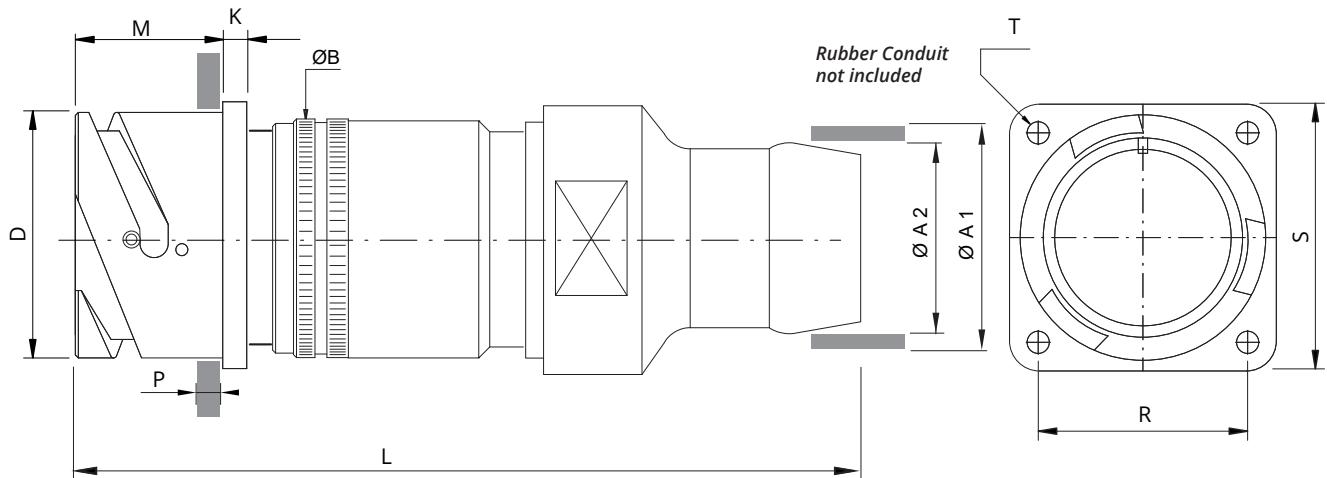
Connector with special adapter for UNI4883 rubber conduits.

Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: KVBS 030DA...FS5040...).



Panel cut out

* For installation with backshell mounted, consult our sales office.



| Shell size | ØD +0.0 | ØB ±0.2 | L | M ±0.2 | K ±0.2 | R ±0.1 | S ±0.3 | ØT | ØT1 | ØC ±0.2 | P | Panel Thickness Max |
|------------|---------|---------|----|--------|--------|--------|--------|----|-----|---------|------|---------------------|
| 18 | 30.8 | 30 | ** | 23.4 | 4 | 27 | 34.9 | M4 | 4.5 | 31.7 | 7.25 | |
| 20 | 34.2 | 32 | ** | 23.4 | 4 | 29.4 | 38.1 | M4 | 4.5 | 35 | 7.3 | |
| 22 | 37.4 | 37 | ** | 23.4 | 4 | 31.8 | 41 | M4 | 4.5 | 38.3 | 7.3 | |
| 24 | 40.9 | 40 | ** | 23.4 | 4 | 34.9 | 44.5 | M4 | 4.5 | 41.8 | 6.85 | |
| 28 | 46.7 | 45 | ** | 24.4 | 4 | 39.7 | 50.8 | M5 | 5.5 | 47.6 | 7.8 | |
| 36 | 59.6 | 58 | ** | 24.4 | 4 | 49.2 | 63.5 | M5 | 5.5 | 60.5 | 7.5 | |
| 40 | 65.5 | 63.8 | ** | 24.4 | 4 | 55.6 | 69.8 | M5 | 5.5 | 66.4 | 7.5 | |

| Shell size | Backshell | ØA1 | ØA2 |
|-------------|-----------|-----|-----|
| 16-18-20 | FS2015 | 20 | 15 |
| 20-22-24-28 | FS2520 | 25 | 20 |
| 18-20-22-24 | FS2722 | 27 | 22 |
| 20-22-24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3530 | 35 | 30 |
| 28-36 | FS4035 | 40 | 35 |
| 28-40 | FS4540 | 45 | 40 |
| 40 | FS5040 | 50 | 40 |
| 36-40 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |
| 40 | FS5945 | 59 | 45 |

** Consult our sales office

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps

| | | | | | | | | | | | | | | |
|--------------------------|-------------|--------------------------|------------|-----------|----------------------------|--------------------------------|----------------------------|----------------------------|-------------|-------------|-----------------------------|------------|----------------------------|----------------------------|
| <input type="checkbox"/> | KVBS | <input type="checkbox"/> | 030 | DA | <input type="checkbox"/> T | <input type="checkbox"/> 24-10 | <input type="checkbox"/> S | <input type="checkbox"/> X | FS.. | xxxx | <input type="checkbox"/> LC | F26 | <input type="checkbox"/> G | <input type="checkbox"/> N |
|--------------------------|-------------|--------------------------|------------|-----------|----------------------------|--------------------------------|----------------------------|----------------------------|-------------|-------------|-----------------------------|------------|----------------------------|----------------------------|

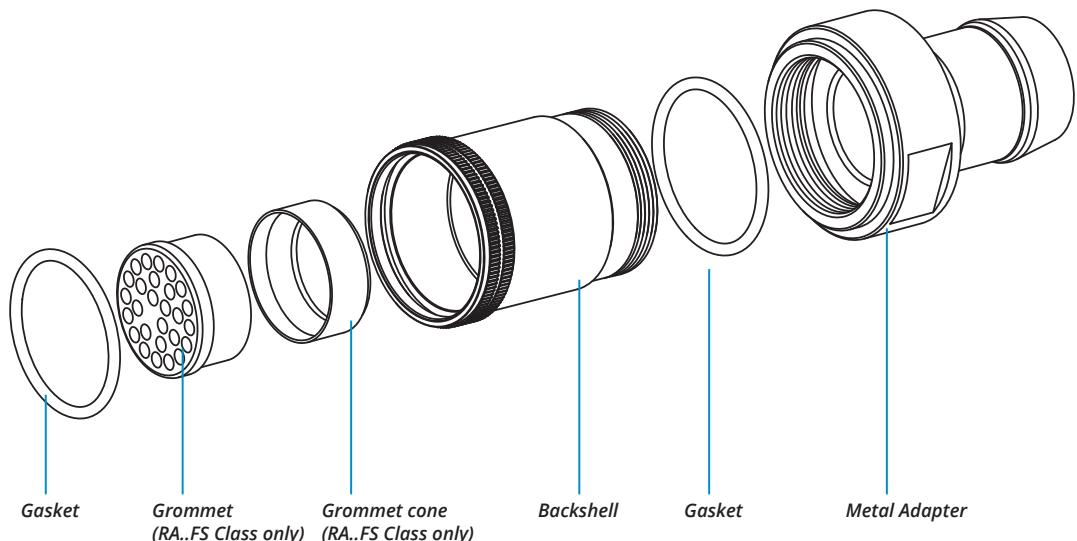
Series Code

Shell Type

Connector Class

Backshell
Conduits size

Shell
finish



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | |
|--------------------------|---------------------------------|-------------|---|-----------------------------|--------------------------------|-------------|---|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> X | Polarization Code** | | Page 14 |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | FS.. | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits |
| <input type="checkbox"/> | Shell Material | - | Aluminum | xxxx | Conduit Size | xxxx | $\varnothing A1 \varnothing A2$ |
| 030 | Shell Type | 030 | Rear mounting Receptacle | <input type="checkbox"/> LC | Contact Termination | LC | Less contacts |
| DA | Connector Class | DA | with waterproof O-ring (IP67***) | <input type="checkbox"/> - | Contact Plating | - | Silver plating |
| | | RA | with waterproof O-ring and grommet (IP67***) | | | CD5 | Gold plating |
| T | Connector Modification** | T | With plastic caps | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | | - | Receptacle connector with threaded holes | | | F26 | hard anodization (*) |
| | | FP | Receptacle connector with through holes | | | - | Without gasket |
| 24-10 | Insert Arrangement | | Page 14 | <input type="checkbox"/> G | Panel Gasket | G | With waterproof panel gasket |
| S | Contact Gender | S | Socket contacts | | | G3 | With waterproof shielded panel gasket |
| | | P | Pin contacts | | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

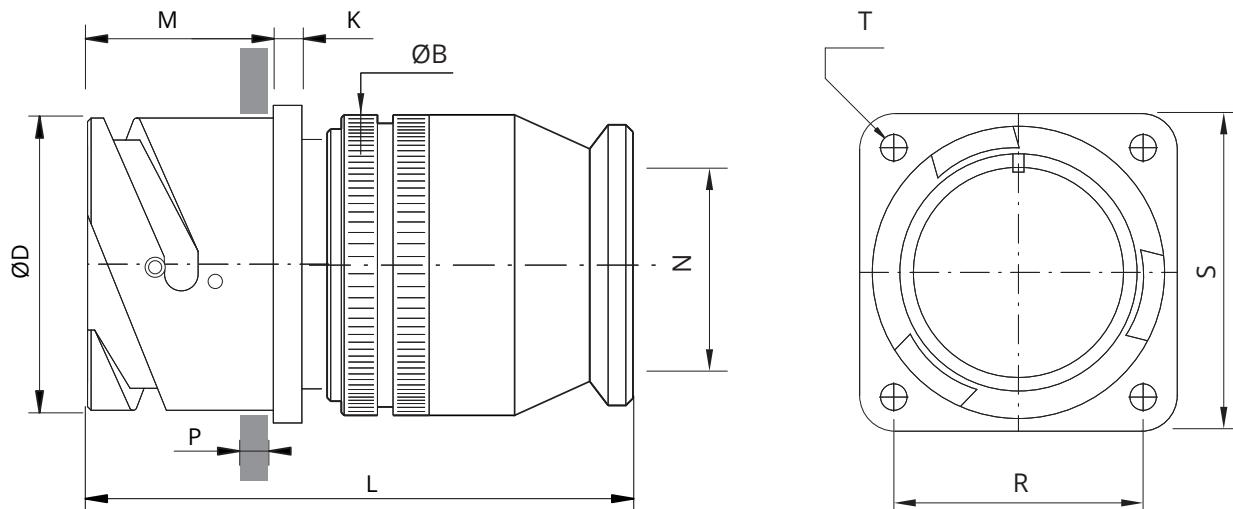
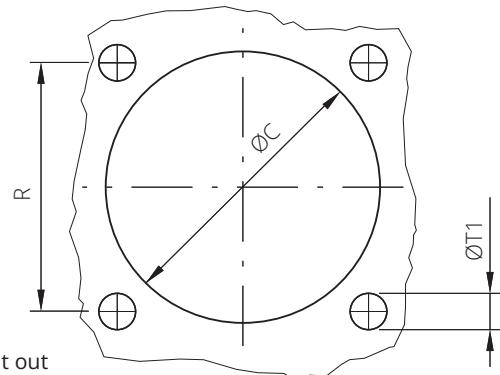
P/N Sample: KVBS 030DAT 24-10SX FS2015 LC F26 G N

KVBS - Bayonet Connector with protected mating ramps

Rear Mounting Receptacle (030) with Backshell Class (R)

This class is suitable to connect single wires when strain relief is not necessary and small longitudinal overall dimensions are needed. As watertightness is guaranteed by the grommet only, it is necessary to make sure the wire diameter matches the grommet sealing range.

SHELL



| Shell size | ØD +0 -0.15 | ØB ±0.2 | L | K ±0.2 | M ±0.2 | N max cable dimension | R ±0.1 | S ±0.3 | ØT | ØT1 | ØC ±0.2 | P Panel Thickness Max |
|------------|-------------------|------------|----|-----------|-----------|--------------------------|-----------|-----------|----|-----|------------|-----------------------|
| 18 | 30.8 | 29.4 | 70 | 4 | 23.4 | 19 | 27 | 34.9 | M4 | 4.5 | 31.7 | 7.25 |
| 20 | 34.2 | 32 | 70 | 4 | 23.4 | 22.2 | 29.4 | 38.1 | M4 | 4.5 | 35 | 7.3 |
| 22 | 37.4 | 37 | 73 | 4 | 23.4 | 24.5 | 31.8 | 41 | M4 | 4.5 | 38.3 | 7.3 |
| 24 | 40.9 | 40 | 73 | 4 | 23.4 | 28 | 34.9 | 44.5 | M4 | 4.5 | 41.8 | 6.85 |
| 28 | 46.7 | 45 | 74 | 4 | 24.4 | 32.6 | 39.7 | 50.8 | M5 | 5.5 | 47.6 | 7.8 |
| 36 | 59.6 | 58 | 75 | 4 | 24.4 | 45 | 49.2 | 63.5 | M5 | 5.5 | 60.5 | 7.5 |
| 40 | 65.5 | 63.2 | 75 | 4 | 24.4 | 51.3 | 55.6 | 69.8 | M5 | 5.5 | 66.4 | 7.5 |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series
Code

Shell
Type

Connector
Class

Shell
finish

KVBS

030

R

T

24-10

S

X

LC

F26

G

N

SHELL

The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | |
|--------------------------|---------------------|--------------------------|---------------------|---|--------------------------|-----|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> | Contact Gender | S | Socket contacts |
| <input type="checkbox"/> | KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | <input type="checkbox"/> | P | Pin contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> | Polarization Code** | | Page 14 |
| <input type="checkbox"/> | 030 | Shell Type | 030 | Rear mounting Receptacle | <input type="checkbox"/> | LC | Contact Termination |
| <input type="checkbox"/> | R | Connector Class | R | With O-ring and grommet | <input type="checkbox"/> | - | Silver plating |
| <input type="checkbox"/> | T | Connector Modification** | T | With plastic caps | <input type="checkbox"/> | CD5 | Gold plating |
| <input type="checkbox"/> | - | | - | Receptacle connector with threaded holes | <input type="checkbox"/> | F16 | CCF - Black passivation (*) - conductive |
| <input type="checkbox"/> | FP | | FP | Receptacle connector with through holes | <input type="checkbox"/> | F26 | hard anodization (*) |
| <input type="checkbox"/> | 24-10 | Insert Arrangement | | Page 14 | <input type="checkbox"/> | - | Without gasket |
| | | | | | <input type="checkbox"/> | G | With waterproof panel gasket |
| | | | | | <input type="checkbox"/> | G3 | With waterproof shielded panel gasket |

P/N Sample: KVBS 030RT 24-10SX LC F26 G N

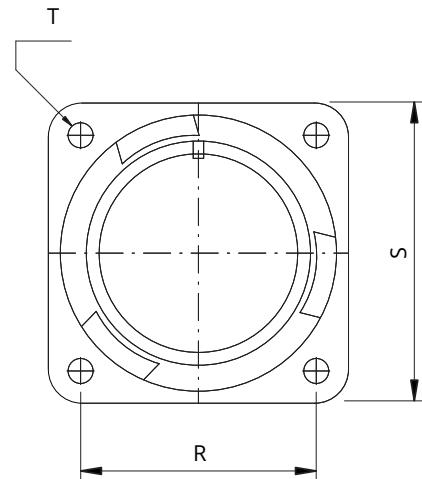
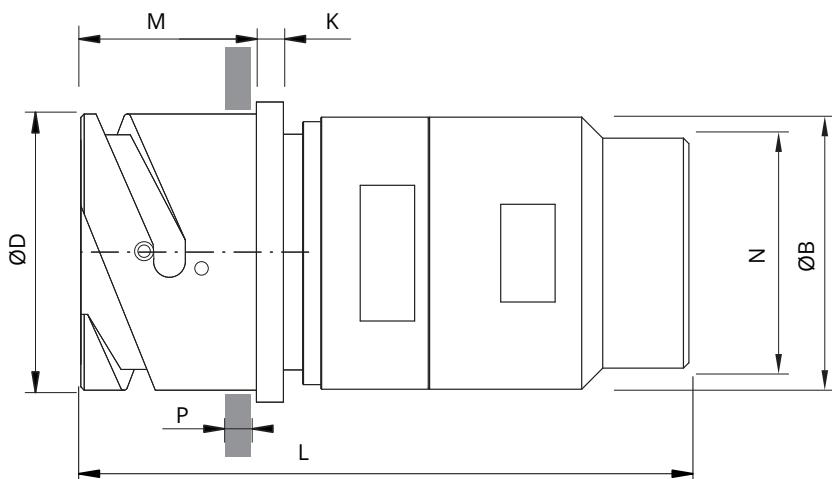
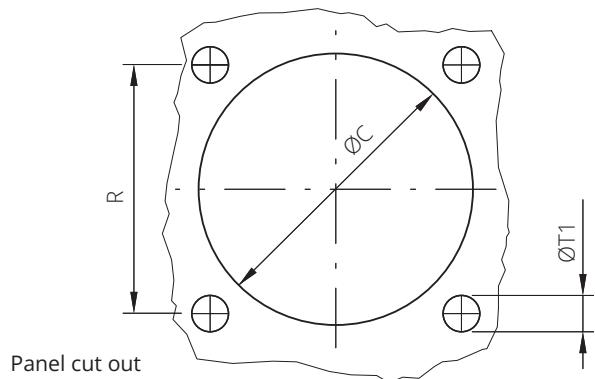
(*) RoHS compliance (**) If required

KVBS - Bayonet Connector with protected mating ramps

Rear Mounting Receptacle (030) with Backshell Class (AST - ST)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an external unef thread

SHELL



| Shell size | ØD +0 -0.15 | ØB ±0.2 | L | M ±0.2 | K ±0.2 | N Backshell Thread in inches | R ±0.1 | S ±0.3 | ØT | ØT1 | ØC ±0.2 | P Panel Thickness Max | Panel | Cable Range | |
|------------|----------------|---------|-------|--------|--------|------------------------------|--------|--------|----|-----|---------|-----------------------|-------|-------------|-------|
| | | | | | | | | | | | | | ST | ST1 | ST2 |
| 18 | 30.8 | 30 | 110 | 23.4 | 4 | 1"-20 UNEF | 27 | 34.9 | M4 | 4.5 | 31.7 | 7.25 | 14-9 | 9-4 | * |
| 20 | 34.2 | 32 | 121 | 23.4 | 4 | 1" 3/16-18 UNEF | 29.4 | 38.1 | M4 | 4.5 | 35 | 7.3 | 19-14 | 14-9 | * |
| 22 | 37.4 | 38 | 122,2 | 23.4 | 4 | 1" 3/16-18 UNEF | 31.8 | 41 | M4 | 4.5 | 38.3 | 7.3 | 19-14 | 14-9 | * |
| 24 | 40.9 | 45 | 115 | 23.4 | 4 | 1" 7/16-18 UNEF | 34.9 | 44.5 | M4 | 4.5 | 41.8 | 6.85 | 23-18 | 18-13 | * |
| 28 | 46.7 | 48 | 115 | 24.4 | 4 | 1" 7/16-18 UNEF | 39.7 | 50.8 | M5 | 5.5 | 47.6 | 7.8 | 23-18 | 18-13 | * |
| 36 | 59.6 | 58 | 135 | 24.4 | 4 | 2"-18 UNS | 49.2 | 63.5 | M5 | 5.5 | 60.5 | 7.5 | 33-25 | 25-18 | * |
| 40 | 65.5 | 65 | 135 | 24.4 | 4 | 2"1/4-16 UN | 55.6 | 69.8 | M5 | 5.5 | 66.4 | 7.5 | 39-31 | 31-24 | 24-16 |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series
Code

Shell
Type

Connector
Class

Shell
finish

Grommet
(ST - ST1 - ST2
Class only)

Grommet cone
(ST - ST1 - ST2
Class only)

Gasket

Backshell

Gasket

Metal Adapter

Adapter
(AST1 - ST1 - AST2 - ST2
Class only)

SHELL

| | | | | | |
|---------------------------------|--------------------|--|---|----------------------------|--|
| Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | Page 14 |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | S | Socket contacts |
| | | | | P | Pin contacts |
| Shell Material | - | Aluminum | X | Polarization Code** | Page 14 |
| 030 | Shell Type | 030 | Rear mounting Receptacle | LC | Contact Termination |
| ST | AST | with waterproof O-ring (IP67***) | - | Contact Plating | Silver plating |
| | ST | with waterproof O-ring and grommet (IP67***) | | CD5 | Gold plating |
| | AST1 | with waterproof O-ring (IP67***) | | F26 | CCF - Black passivation (*) conductive |
| | ST1 | with waterproof O-ring and grommet (IP67***) | | | F26 hard anodization (*) |
| | AST2 | with waterproof O-ring (IP67***) | | | - Without gasket |
| | ST2 | with waterproof O-ring and grommet (IP67***) | | G | With waterproof panel gasket |
| T | T | With plastic caps | | G3 | With waterproof shielded panel gasket |
| Connector Modification** | - | Receptacle connector with threaded holes | N | Modification Code** | Consult our sales office |
| | FP | Receptacle connector with through holes | S | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

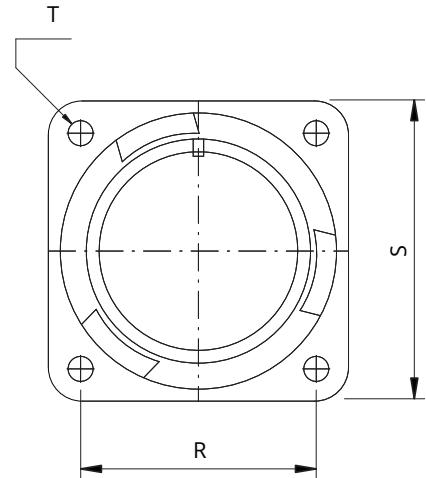
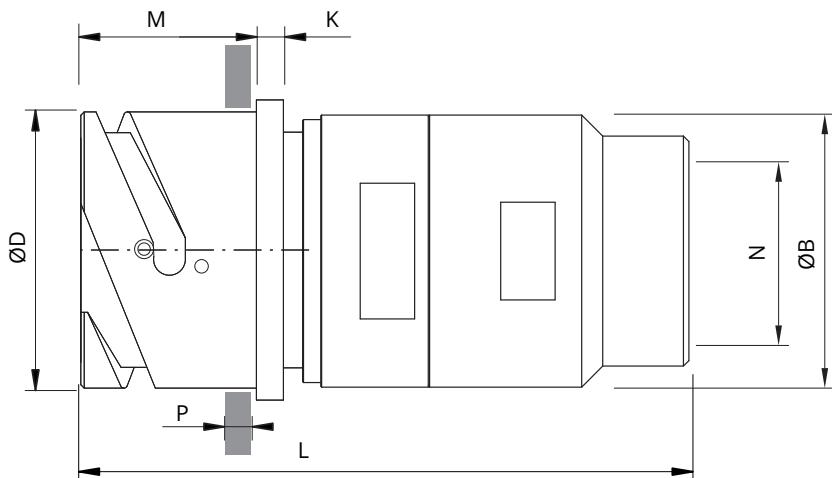
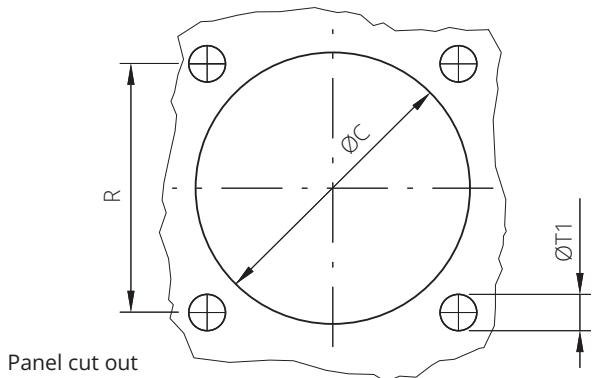
P/N Sample: KVBS 030STT 24-10SX LC F26 G N

KVBS - Bayonet Connector with protected mating ramps

Rear Mounting Receptacle (030) with Backshell Class (AST..M - ST..M)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an internal Metric thread

SHELL



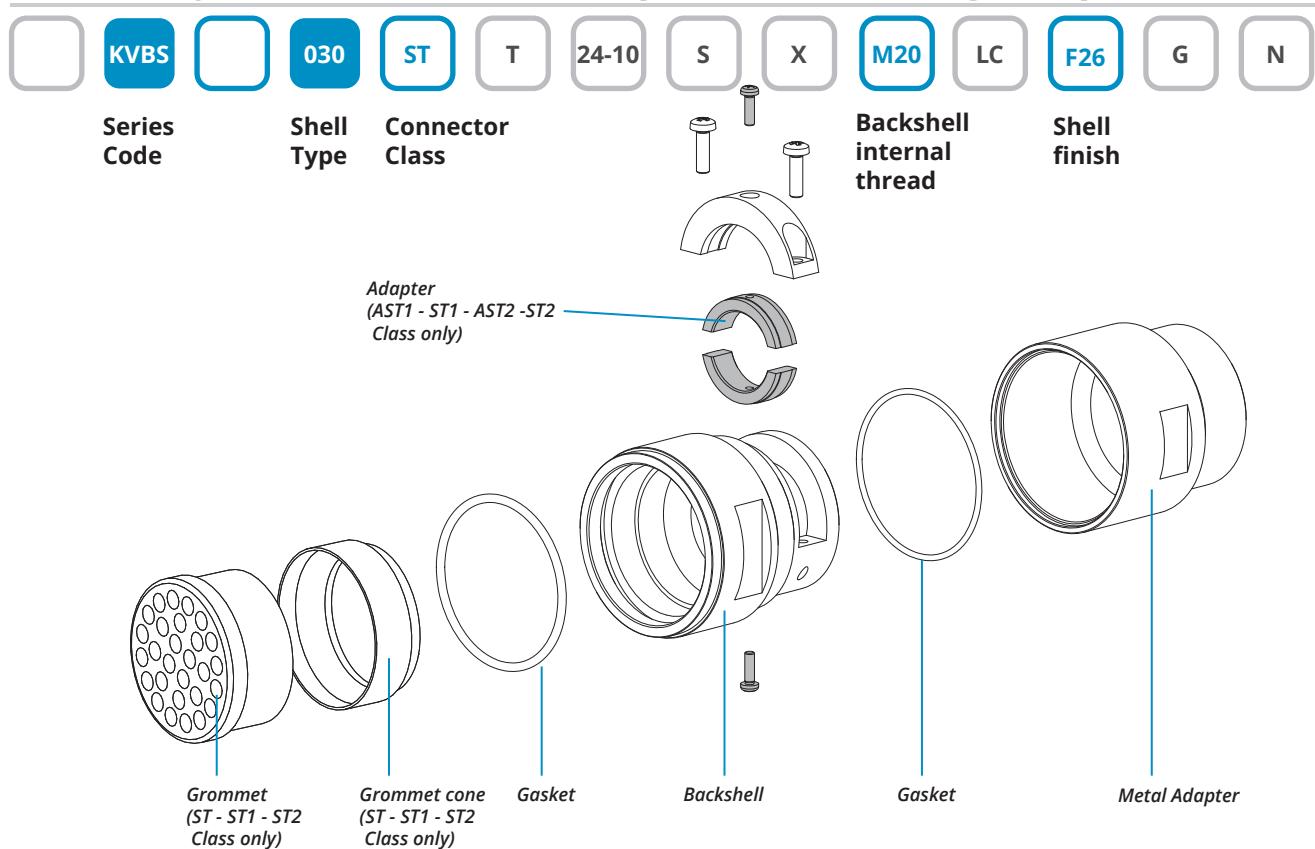
| Shell size | ØD +0 -0.15 | ØB ±0.2 | L | M ±0.2 | K ±0.2 | N Backshell Thread Metric | R ±0.1 | S ±0.3 | ØT | ØT1 | ØC ±0.2 | P Panel Thickness Max | Panel cut out | Cable Range | | |
|------------|-------------------|------------|-------|-----------|-----------|------------------------------|-----------|-----------|----|-----|------------|-----------------------|---------------|-------------|-------|-----|
| | | | | | | | | | | | | | | ST | ST1 | ST2 |
| 18 | 30.8 | 30 | 110 | 23.4 | 4 | M16 - M20 | 27 | 34.9 | M4 | 4.5 | 31.7 | 7.25 | 14-9 | 9-4 | * | |
| 20 | 34.2 | 32 | 121 | 23.4 | 4 | M20 | 29.4 | 38.1 | M4 | 4.5 | 35 | 7.3 | 19-14 | 14-9 | * | |
| 22 | 37.4 | 38 | 122,2 | 23.4 | 4 | M25 | 31.8 | 41 | M4 | 4.5 | 38.3 | 7.3 | 19-14 | 14-9 | * | |
| 24 | 40.9 | 45 | 115 | 23.4 | 4 | M25 | 34.9 | 44.5 | M4 | 4.5 | 41.8 | 6.85 | 23-18 | 18-13 | * | |
| 28 | 46.7 | 48 | 115 | 24.4 | 4 | M32 | 39.7 | 50.8 | M5 | 5.5 | 47.6 | 7.8 | 23-18 | 18-13 | * | |
| 36 | 59.6 | 58 | 135 | 24.4 | 4 | M32 - M40 | 49.2 | 63.5 | M5 | 5.5 | 60.5 | 7.5 | 33-25 | 25-18 | * | |
| 40 | 65.5 | 65 | 135 | 24.4 | 4 | M40 - M50 | 55.6 | 69.8 | M5 | 5.5 | 66.4 | 7.5 | 39-31 | 31-24 | 24-16 | |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



| | | | | | | |
|--------------------------|----------------------------|--|---|--------------|----------------------------------|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | Page 14 |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | S | Contact Gender | S Socket contacts |
| | | | | P | | P Pin contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | X | Polarization Code** | Page 14 |
| 030 | Shell Type | 030 | Rear mounting Receptacle | M20 | Backshell internal thread | Mxx Provided with an internal Metric thread |
| ST | AST | with waterproof O-ring (IP67***) | | LC | Contact Termination | LC Less contacts |
| | ST | with waterproof O-ring and grommet (IP67***) | | | | |
| | AST1 | with waterproof O-ring (IP67***) | | | | |
| | ST1 | with waterproof O-ring and grommet (IP67***) | | - | Contact Plating | - Silver plating |
| ST | AST2 | with waterproof O-ring (IP67***) | | | | CD5 Gold plating |
| | ST2 | with waterproof O-ring and grommet (IP67***) | | F26 | Shell finish | F16 CCF - Black passivation (*) conductive |
| | T | With plastic caps | | | | F26 hard anodization (*) |
| | - | Receptacle connector with threaded holes | | | | - Without gasket |
| T | FP | Receptacle connector with through holes | | G | Panel Gasket | G With waterproof panel gasket |
| | | | | | | G3 With waterproof shielded panel gasket |
| N | N | Modification Code** | | N | | Consult our sales office |
| | S | | | S | | |

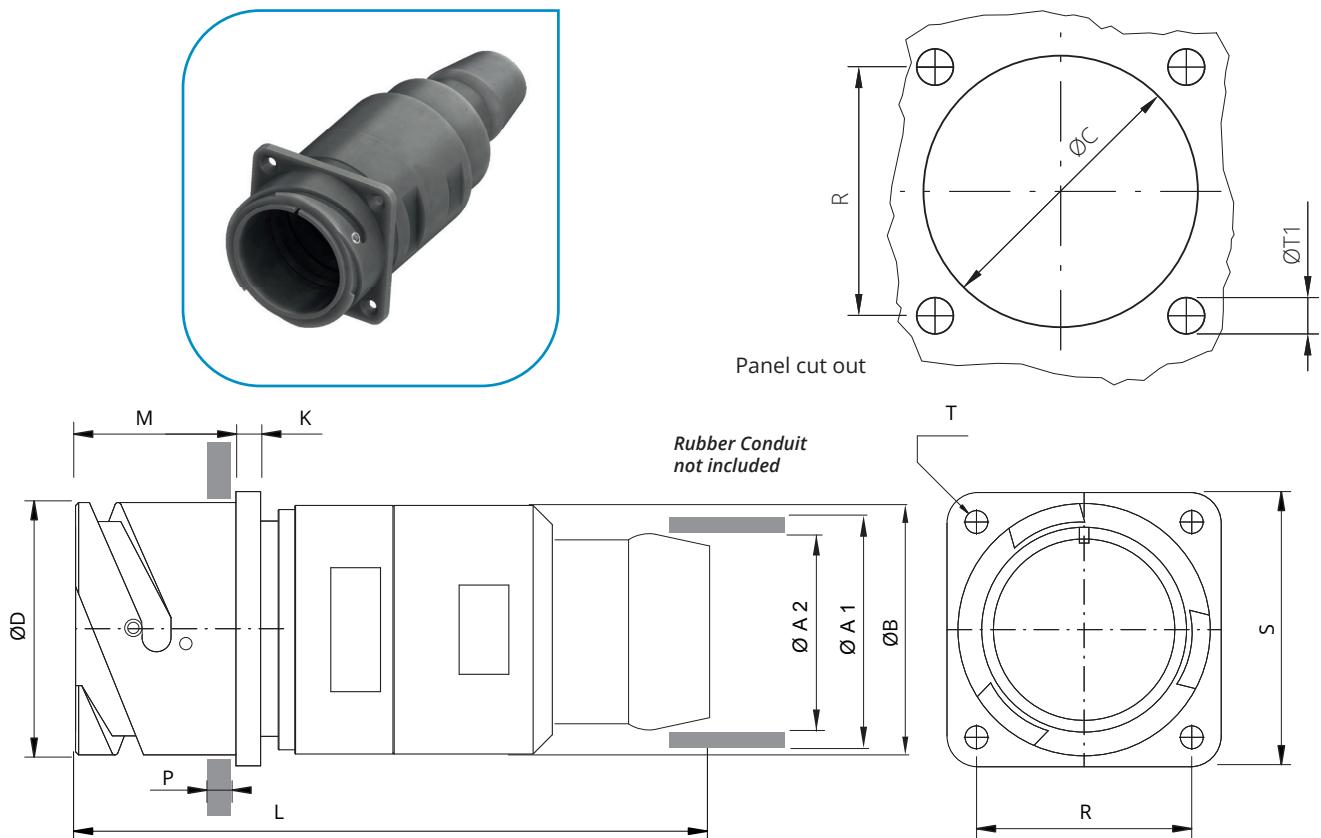
*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBS 030STT 24-10SX M20 F26 G N

KVBS - Bayonet Connector with protected mating ramps

Rear Mounting Receptacle (030) with Backshell Class (AST..FS - ST..FS)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with a special adapter for UNI4883 rubber conduits



| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|------------|------------------------|-----|-----|
| 24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3833 | 38 | 33 |
| 36 | FS4035 | 40 | 35 |
| 40 | FS5040 | 50 | 40 |
| 36 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |

Please consult our Sales Office for further details about this dimension and according to conduit size.

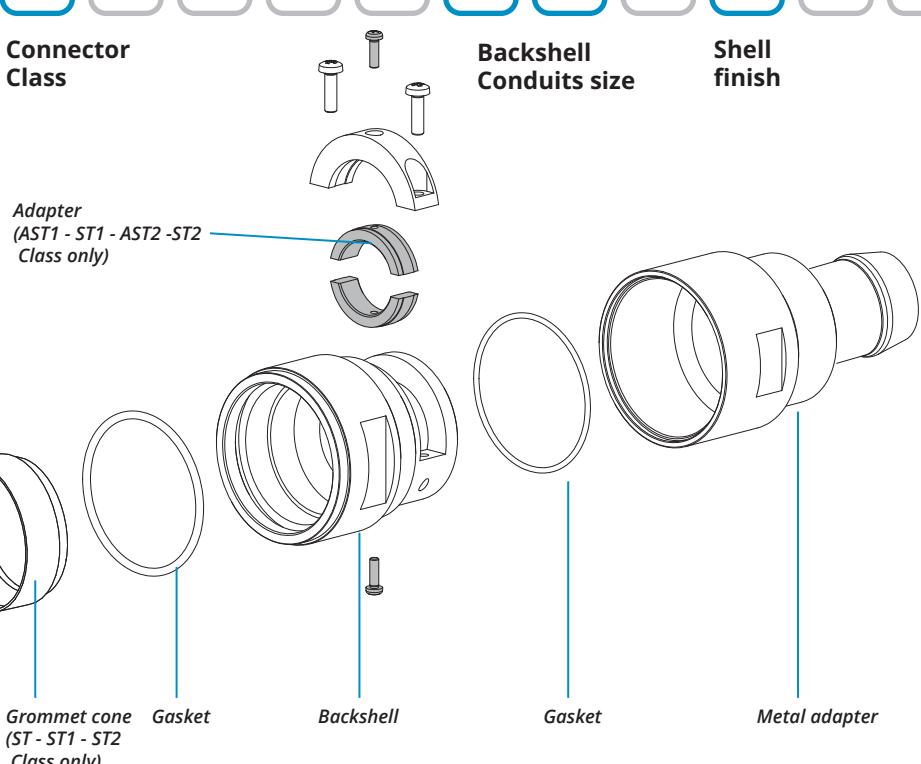
| Shell size | ØD +0 -0.15 | ØB ±0.2 | L ±0.2 | M ±0.2 | K ±0.2 | R ±0.1 | S ±0.3 | ØT | ØT1 | ØC ±0.2 | P Panel Thickness | Cable Range Max | ST | ST1 | ST2 |
|------------|-------------------|------------|-----------|-----------|-----------|-----------|-----------|----|-----|------------|-------------------|-----------------|-------|-------|-----|
| 18 | 30.8 | 30 | 110 | 23.4 | 4 | 27 | 34.9 | M4 | 4.5 | 31.7 | 7.25 | 14-9 | 9-4 | * | |
| 20 | 34.2 | 32 | 121 | 23.4 | 4 | 29.4 | 38.1 | M4 | 4.5 | 35 | 7.3 | 19-14 | 14-9 | * | |
| 22 | 37.4 | 38 | 122,2 | 23.4 | 4 | 31.8 | 41 | M4 | 4.5 | 38.3 | 7.3 | 19-14 | 14-9 | * | |
| 24 | 40.9 | 45 | 115 | 23.4 | 4 | 34.9 | 44.5 | M4 | 4.5 | 41.8 | 6.85 | 23-18 | 18-13 | * | |
| 28 | 46.7 | 48 | 115 | 24.4 | 4 | 39.7 | 50.8 | M5 | 5.5 | 47.6 | 7.8 | 23-18 | 18-13 | * | |
| 36 | 59.6 | 58 | 135 | 24.4 | 4 | 49.2 | 63.5 | M5 | 5.5 | 60.5 | 7.5 | 33-25 | 25-18 | * | |
| 40 | 65.5 | 65 | 135 | 24.4 | 4 | 55.6 | 69.8 | M5 | 5.5 | 66.4 | 7.5 | 39-31 | 31-24 | 24-16 | |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps

| | | | | | | | | | | | | | | |
|---|--------------------------|--------------------------|---|----|---|-------|---|---|----|------|----|-----|---|---|
| <input type="checkbox"/> | KVBS | <input type="checkbox"/> | 030 | ST | T | 24-10 | S | X | FS | xxxx | LC | F26 | G | N |
| Series Code | Shell Type | Connector Class |  | | | | | | | | | | | |
| Adapter (AST1 - ST1 - AST2 - ST2 Class only) | | | | | | | | | | | | | | |
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | | | | | | | | | | | |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | | | | | | | | | | | |
| <input type="checkbox"/> | Shell Material | - | Aluminum | | | | | | | | | | | |
| 030 | Shell Type | 030 | Rear mounting Receptacle | | | | | | | | | | | |
| <input type="checkbox"/> | Connector Class | AST | with waterproof O-ring (IP67***) | | | | | | | | | | | |
| | | ST | with waterproof O-ring and grommet (IP67***) | | | | | | | | | | | |
| | | AST1 | with waterproof O-ring (IP67***) | | | | | | | | | | | |
| | | ST1 | with waterproof O-ring and grommet (IP67***) | | | | | | | | | | | |
| | | AST2 | with waterproof O-ring (IP67***) | | | | | | | | | | | |
| | | ST2 | with waterproof O-ring and grommet (IP67***) | | | | | | | | | | | |
| <input type="checkbox"/> | Connector Modification** | T | With plastic caps | | | | | | | | | | | |
| | | - | Receptacle connector with threaded holes | | | | | | | | | | | |
| | | FP | Receptacle connector with through holes | | | | | | | | | | | |
| 24-10 | Insert Arrangement | Page 14 | | | | | | | | | | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529

(*) RoHS compliance (**) If required

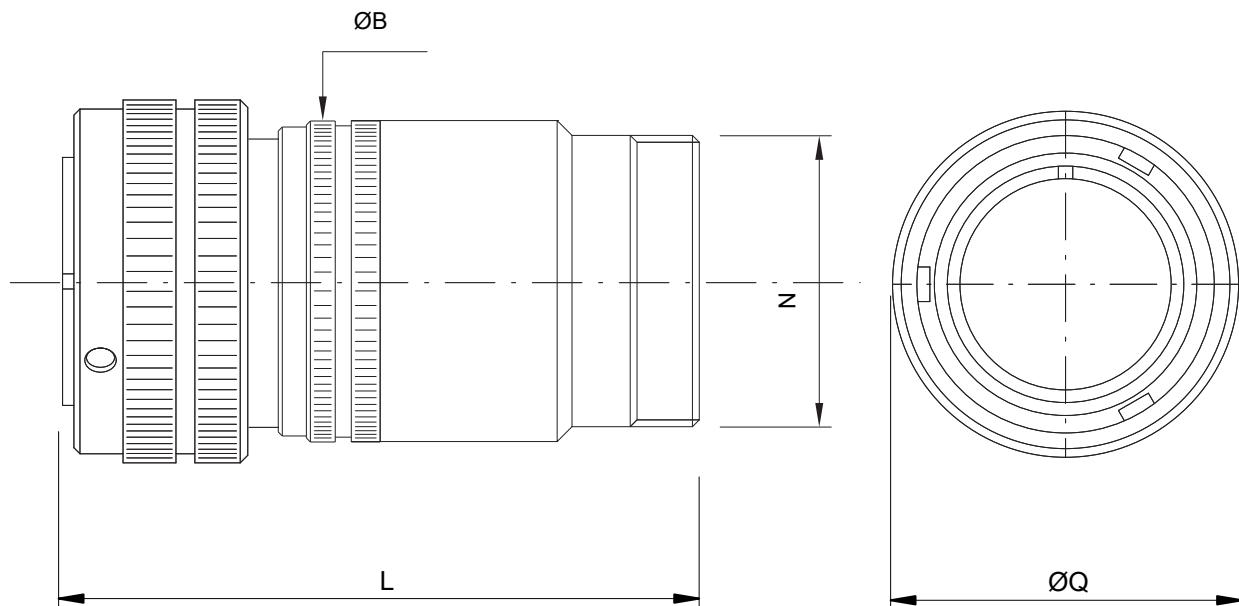
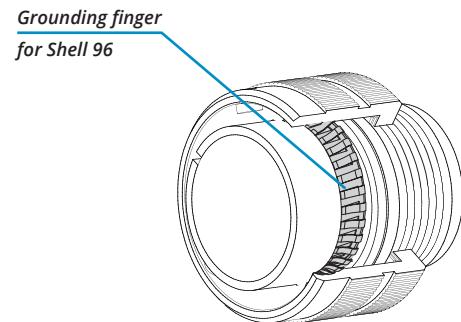
P/N Sample: KVBS 030STT 24-10SX FS2015 LC F26 G N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (06/96) with Backshell Class (A - DA - RA)

Connector with backshell provided with an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately).

SHELL



| Shell size | ØQ ± 0.2 | ØB ± 0.2 | L max | N Backshell Thread in inches |
|------------|--------------------------|--------------------------|----------|------------------------------------|
| 18 | 37 | 30 | 100 | 1"-20 UNEF |
| 20 | 41 | 32 | 100 | 1" 3/16-18 UNEF |
| 22 | 43 | 37 | 100 | 1" 3/16-18 UNEF |
| 24 | 48 | 40 | 105 | 1" 7/16-18 UNEF |
| 28 | 53 | 45 | 105 | 1" 7/16-18 UNEF |
| 36 | 66.2 | 58 | 125 | 2"-18 UNS |
| 40 | 72.4 | 63.8 | 125 | 2"1/4-16 UN |

Dimensions in mm

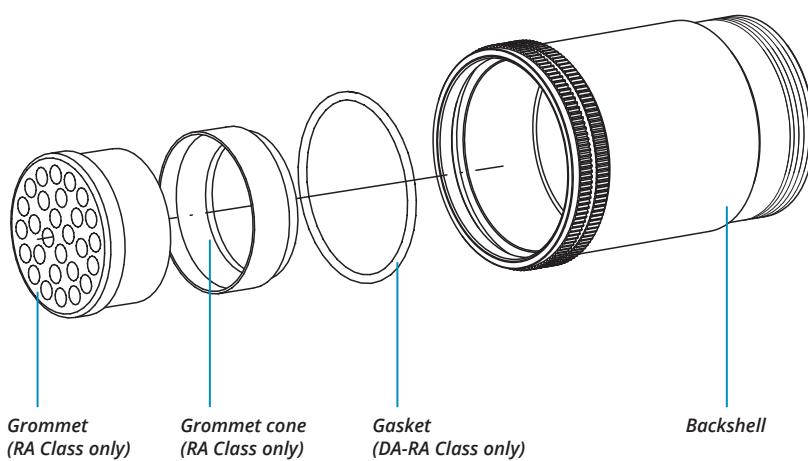
Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code Shell Material Type Shell Class

Shell finish



| | | | | | | |
|---|--------------------------|------|---|-------|---------------------|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | Page 14 |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | S | Contact Gender | Socket contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | P | | Pin contacts |
| 06 | Shell Type | 06 | Plug Connector without grounding finger | X | Polarization Code** | Page 14 |
| | | 96 | Plug Connector with grounding finger | LC | Contact Termination | LC |
| | | A | non watertight | | | Less contacts |
| DA | Connector Class | DA | with waterproof O-ring (IP67***) | - | Contact Plating | Silver plating |
| | | RA | with waterproof O-ring and grommet (IP67***) | CD5 | | Gold plating |
| T | Connector Modification** | T | With plastic caps | F26 | Shell finish | CCF - Black passivation (*) - conductive |
| | | | | | F26 | hard anodization (*) |
| | | | | N | Modification Code** | Consult our sales office |
| | | | | S | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

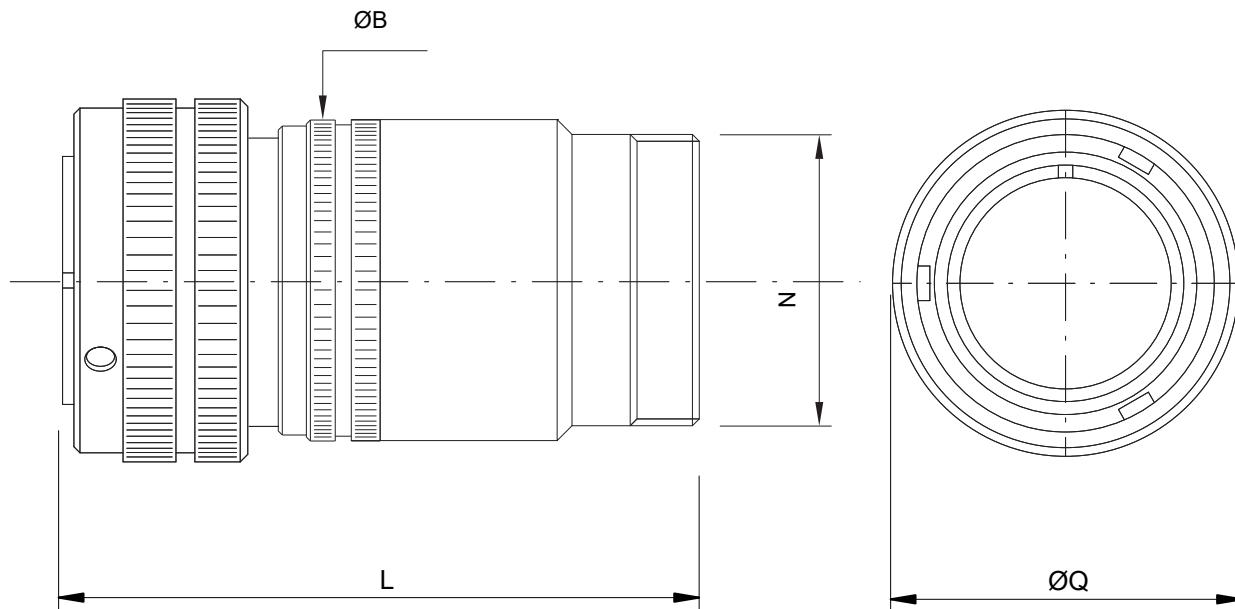
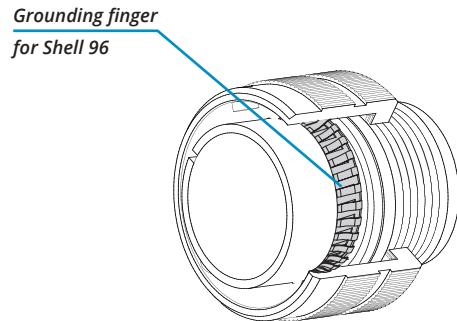
P/N Sample: KVBS 06DAT 24-10SX LC F26N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (06/96) with Backshell Class (SA - SDA - SRA)

Connector with short backshell provided with an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately).

SHELL



| Shell size | ØQ ±0.2 | ØB ±0.2 | L max | N Backshell Thread in inches |
|------------|-------------------|-------------------|-----------------|---|
| 18 | 37 | 30 | * | 1"-20 UNEF |
| 20 | 41 | 32 | * | 1" 3/16-18 UNEF |
| 22 | 43 | 37 | * | 1" 3/16-18 UNEF |
| 24 | 48 | 40 | * | 1" 7/16-18 UNEF |
| 28 | 53 | 45 | * | 1" 7/16-18 UNEF |
| 36 | 66.2 | 58 | * | 2"-18 UNS |
| 40 | 72.4 | 63.8 | * | 2"1/4-16 UN |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code: KVBS, Shell Material: 06, Shell Type: SDA, Connector Class: T, Insert Arrangement: 24-10, Contact Gender: S, Contact Termination: LC, Contact Plating: -, Shell finish: F26, Modification Code: N

Shell finish: N

| | | | | | | |
|-------------------------------|--------------------------|------|---|-------|---------------------|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | Page 14 |
| <input type="checkbox"/> KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | S | Contact Gender | Socket contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | P | | Pin contacts |
| <input type="checkbox"/> 06 | Shell Type | 06 | Plug Connector without grounding finger | X | Polarization Code** | Page 14 |
| | | 96 | Plug Connector with grounding finger | LC | Contact Termination | Less contacts |
| <input type="checkbox"/> SDA | Connector Class | SA | non watertight | - | Contact Plating | Silver plating |
| | | SDA | with waterproof O-ring (IP67***) | CD5 | | Gold plating |
| | | SRA | with waterproof O-ring and grommet (IP67***) | F26 | Shell finish | CCF - Black passivation (*) - conductive |
| <input type="checkbox"/> T | Connector Modification** | T | With plastic caps | | F26 | hard anodization (*) |
| | | | | N | Modification Code** | Consult our sales office |
| | | | | S | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

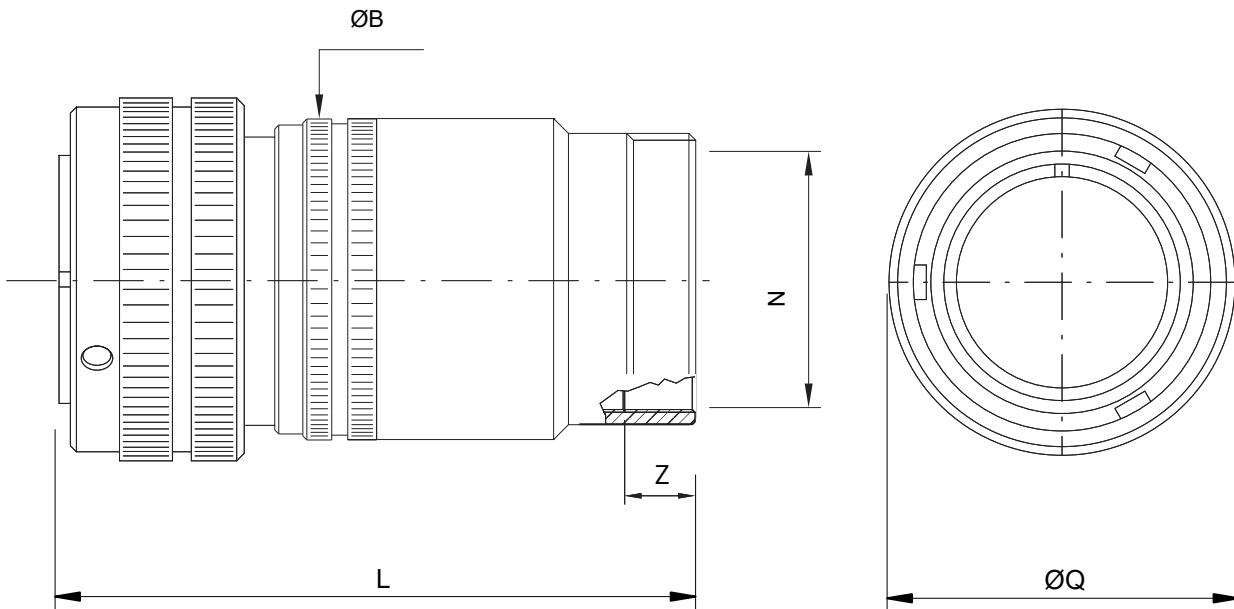
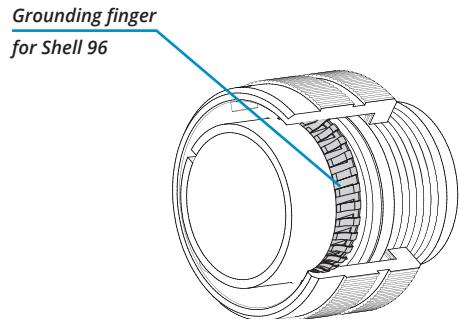
P/N Sample: KVBS 06SDAT 24-10SX LC F26 N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (06/96) with Backshell Class (DA..M - RA..M)

Connector with backshell provided with an internal Metric thread suitable for cable glands or conduit adapters.

SHELL



| Shell size | $\varnothing Q$ ± 0.2 | L max | $\varnothing B$ ± 0.2 | N Backshell Thread | Z min |
|------------|------------------------------|----------|------------------------------|-----------------------|----------|
| Metric | | | | | |
| 18 | 37 | 100 | 30 | M20 | 15 |
| 20 | 41 | 100 | 32 | M25 | 15 |
| 22 | 43 | 100 | 37 | M25 | 15 |
| 24 | 48 | 105 | 40 | M32 | 15 |
| 28 | 53 | 105 | 45 | M32 - M40 | 15 |
| 36 | 66.2 | 125 | 58 | M40 | 15 |
| 40 | 72.4 | 125 | 63.8 | M50 | 15 |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



| | | | | | | |
|-------------|------------|-----------------|---------------------------|--------------|-----|---|
| Series Code | Shell Type | Connector Class | Backshell internal thread | Shell finish | | |
| KVBS | 06 | DA | M20 | LC | F26 | N |

| | | | | | | | |
|----------------------------|---------------------------------|---------------------|--|----------------------------|----------------------------------|---|---|
| Insulating material | - | Thermoplastic resin | Contact Gender | S | Socket contacts | | |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | P | Pin contacts | | |
| Shell Material | - | Aluminum | X | Polarization Code** | Page 14 | | |
| 06 | Shell Type | 06 96 | Plug Connector without grounding finger Plug Connector with grounding finger | M20 | Backshell internal thread | Mxx | Provided with an internal Metric thread |
| DA | Connector Class | DA RA | with waterproof O-ring (IP67***) with waterproof O-ring and grommet (IP67***) | LC | Contact Termination | LC | Less contacts |
| T | Connector Modification** | T | With plastic caps | - | Contact Plating | - | Silver plating |
| 24-10 | Insert Arrangement | | Page 14 | CD5 | | CD5 | Gold plating |
| | | | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive | |
| | | | | | F26 | hard anodization (*) | |
| | | | N | Modification Code** | N | Consult our sales office | |
| | | | | | S | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBS 06DAT 24-10SX M20 LC F26 N

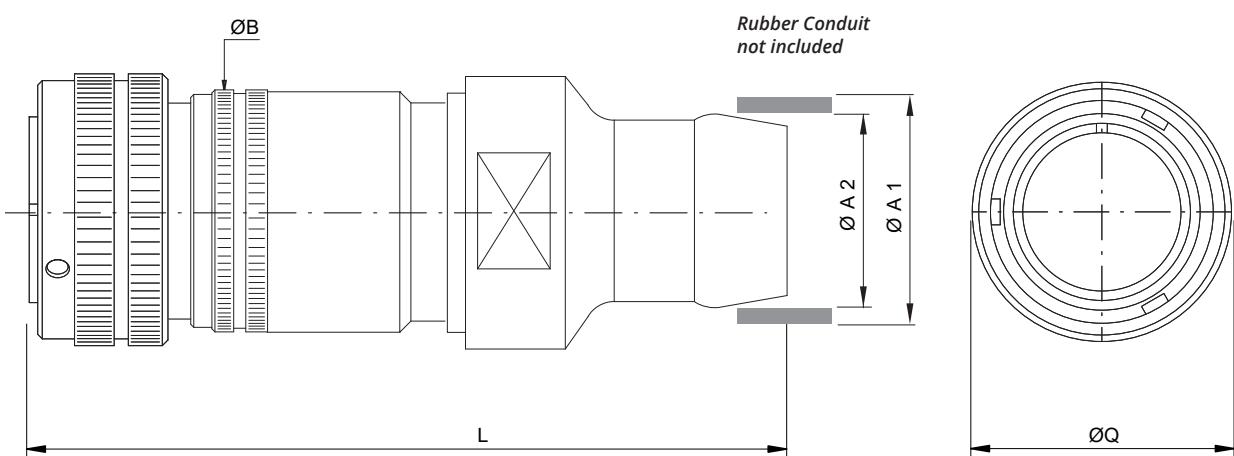
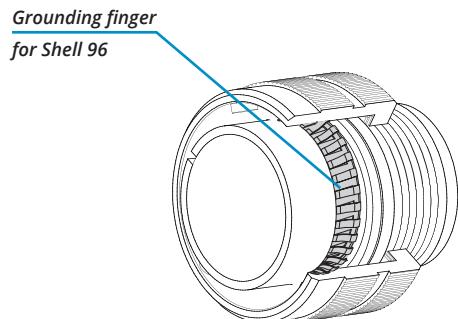
KVBS - Bayonet Connector with protected mating ramps

Plug Connector (06/96) with Backshell Class (DA..FS - RA..FS)

Connector with special adapter for UNI4883 rubber conduits.

Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: KVBS 06DA...FS5040...).

SHELL



Please consult our Sales Office for further details about this dimension and according to conduit size.

| Shell size | ØQ ±0.2 | L max | ØB max |
|------------|---------|-------|--------|
| 18 | 37 | * | 30 |
| 20 | 41 | * | 32 |
| 22 | 43 | * | 37 |
| 24 | 48 | * | 40 |
| 28 | 53 | * | 45 |
| 36 | 66.2 | * | 58 |
| 40 | 72.4 | * | 63.8 |

| Shell size | Backshell | ØA1 | ØA2 |
|-------------|-----------|-----|-----|
| 16-18-20 | FS2015 | 20 | 15 |
| 20-22-24-28 | FS2520 | 25 | 20 |
| 18-20-22-24 | FS2722 | 27 | 22 |
| 20-22-24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3530 | 35 | 30 |
| 28-36 | FS4035 | 40 | 35 |
| 28-40 | FS4540 | 45 | 40 |
| 40 | FS5040 | 50 | 40 |
| 36-40 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |
| 40 | FS5945 | 59 | 45 |

* On request (please consult our Sales Office)

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series
Code

06

DA

T

24-10

S

X

FS

3328

LC

F26

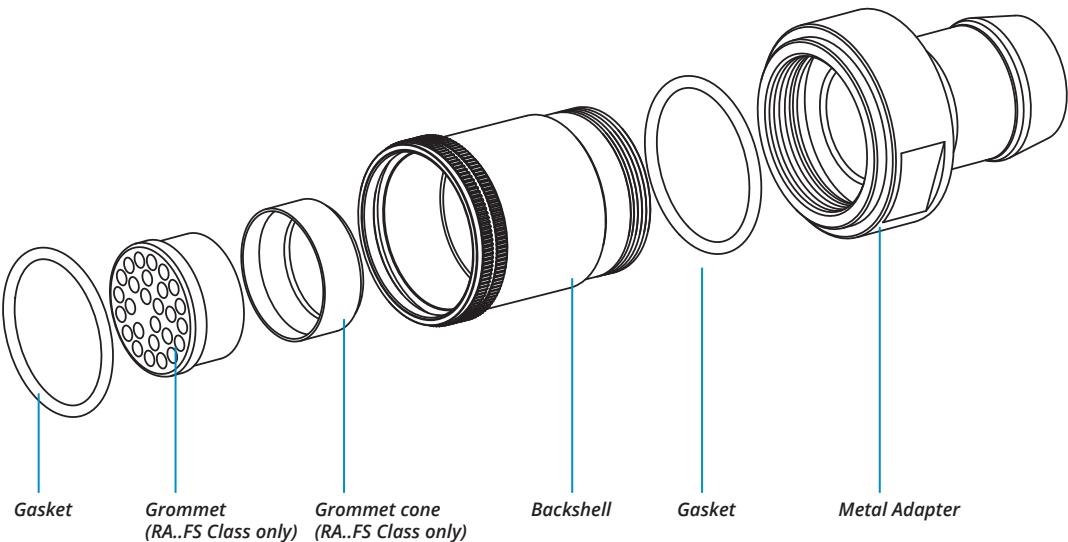
N

Shell
Type

Connector
Class

Backshell
Conduits size

Shell
finish



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | |
|----------------------------|---------------------------------|---------------------|---|-------------|---|
| Insulating material | - | Thermoplastic resin | Contact Gender | S | Socket contacts |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | P | Pin contacts |
| Shell Material | - | Aluminum | Polarization Code** | Page 14 | |
| 06 | Shell Type | 06 | Plug Connector without grounding finger | FS | Backshell Conduits size |
| | | 96 | Plug Connector with grounding finger | FS | Provided with a special adapter for UNI4883 rubber conduits |
| DA | Connector Class | DA | with waterproof O-ring (IP67***) | 3328 | Conduit Size |
| | | RA | with waterproof O-ring and grommet (IP67***) | xxxx | ØA1ØA2 |
| T | Connector Modification** | T | With plastic caps | LC | Contact Termination |
| 24-10 | Insert Arrangement | | Page 14 | LC | Less contacts |
| | | | | - | Contact Plating |
| | | | | - | Silver plating |
| | | | | CD5 | Gold plating |
| | | | | F26 | Shell finish |
| | | | | F16 | Black epoxy varnish (*) |
| | | | | F26 | CCF - Black passivation (*) conductive |
| | | | | | hard anodization (*) |
| | | | | N | Modification Code** |
| | | | | N | Consult our sales office |
| | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

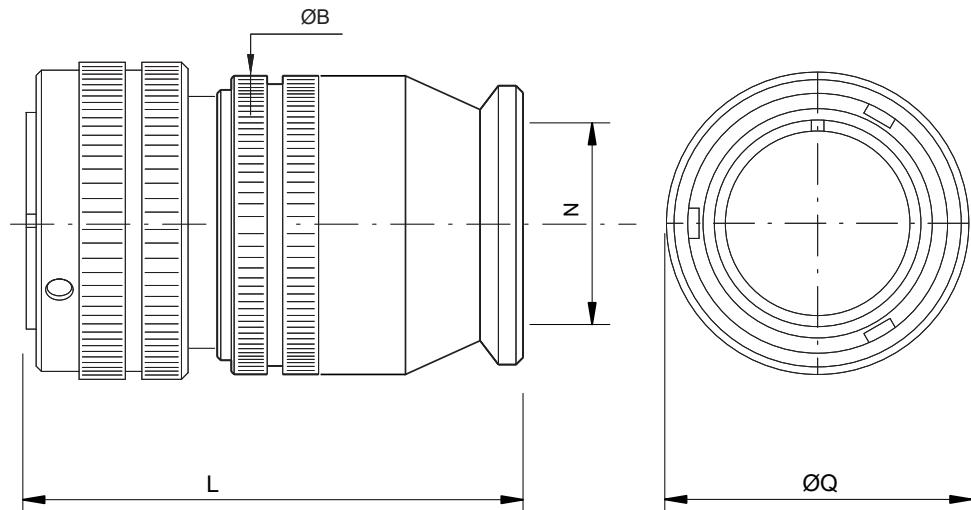
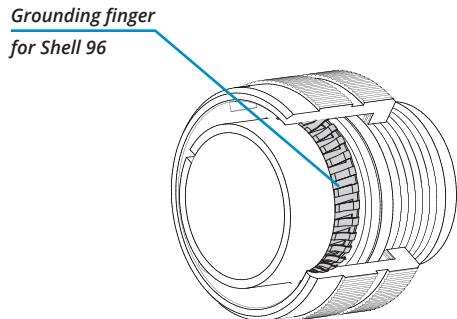
P/N Sample: KVBS 06DAT 24-10SX FS3328 LC F26 N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (06/96) with Backshell Class (R)

This class is suitable to connect single wires when strain relief is not necessary and small longitudinal overall dimensions are needed. As watertightness is guaranteed by the grommet only, it is necessary to make sure the wire diameter matches the grommet sealing range.

SHELL



| Shell size | ØQ ±0.2 | ØB ±0.2 | L max | N max cable dimension |
|------------|--------------------|--------------------|------------------|--------------------------------------|
| 18 | 37 | 30 | 70 | 19 |
| 20 | 41 | 32 | 70 | 22.2 |
| 22 | 43 | 37 | 73 | 24.5 |
| 24 | 48 | 40 | 73 | 28 |
| 28 | 53 | 45 | 74 | 32.6 |
| 36 | 66.2 | 58 | 75 | 45 |
| 40 | 72.4 | 63.8 | 75 | 51.3 |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series
Code

06

R

T

24-10

S

X

LC

-

F26

N

Shell
Type

Connector
Class

Shell
finish

SHELL

The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | | | |
|--------------------------|---------------------|--------------------------|---------------------|---|--------------------------|---------------------|--------------------------|-----|---|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> | S | Contact Gender | <input type="checkbox"/> | S | Socket contacts |
| <input type="checkbox"/> | KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | <input type="checkbox"/> | P | | | Pin contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> | X | Polarization Code** | <input type="checkbox"/> | | Page 14 |
| <input type="checkbox"/> | 06 | Shell Type | 06 | Plug Connector without grounding finger | <input type="checkbox"/> | LC | Contact Termination | LC | Less contacts |
| <input type="checkbox"/> | | | 96 | Plug Connector with grounding finger | <input type="checkbox"/> | - | Contact Plating | - | Silver plating |
| <input type="checkbox"/> | R | Connector Class | R | With O-ring and grommet | <input type="checkbox"/> | | | CD5 | Gold plating |
| <input type="checkbox"/> | T | Connector Modification** | T | With plastic caps | <input type="checkbox"/> | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| <input type="checkbox"/> | 24-10 | Insert Arrangement | | Page 14 | <input type="checkbox"/> | | | F26 | hard anodization (*) |
| | | | | | <input type="checkbox"/> | N | Modification Code** | N | Consult our sales office |
| | | | | | <input type="checkbox"/> | | | S | |

P/N Sample: KVBS 06RT 24-10SX LC F26 N

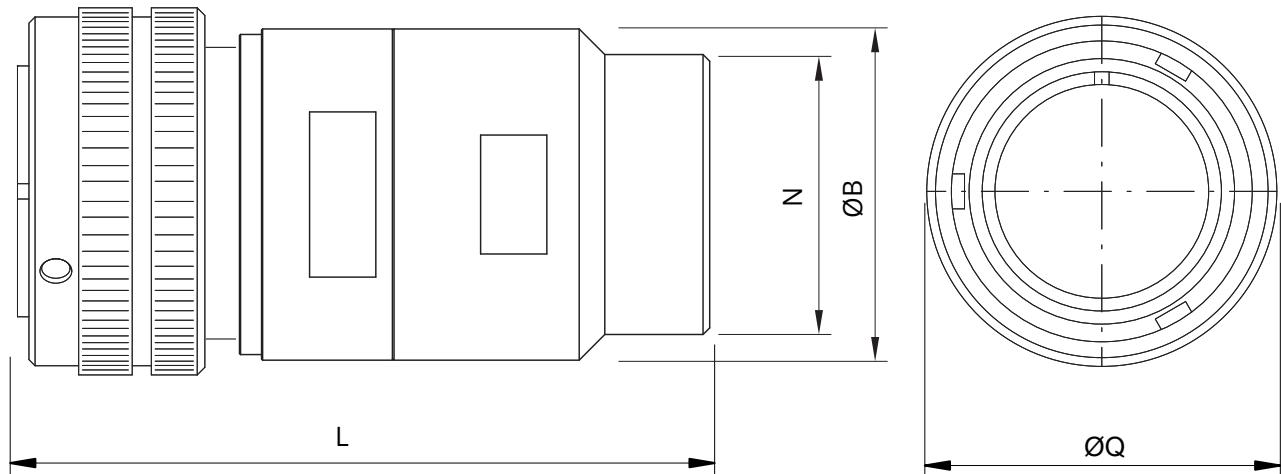
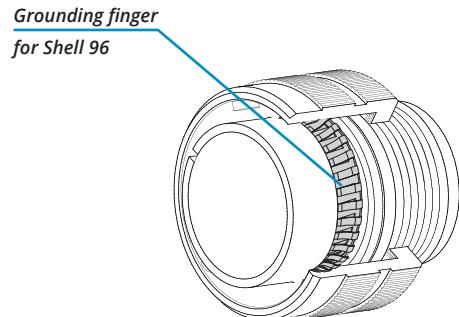
(*) RoHS compliance (**) If required

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (06/96) with Backshell Class (AST - ST)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an external unef thread

SHELL



| Shell size | ØQ | ØB ±0.2 | L | N Backshell Thread in inches | Cable Range | | |
|------------|------|------------|-------|------------------------------------|-------------|-------|-------|
| | | | | | ST | ST1 | ST2 |
| 18 | 37 | 30 | 110 | 1"-20 UNEF | 14-9 | 9-4 | * |
| 20 | 41 | 32 | 121 | 1" 3/16-18 UNEF | 19-14 | 14-9 | * |
| 22 | 43 | 38 | 122,2 | 1" 3/16-18 UNEF | 19-14 | 14-9 | * |
| 24 | 48 | 45 | 115 | 1" 7/16-18 UNEF | 23-18 | 18-13 | * |
| 28 | 53 | 48 | 115 | 1" 7/16-18 UNEF | 23-18 | 18-13 | * |
| 36 | 66.2 | 58 | 135 | 2"-18 UNS | 33-25 | 25-18 | * |
| 40 | 72.4 | 65 | 135 | 2"1/4-16 UN | 39-31 | 31-24 | 24-16 |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps

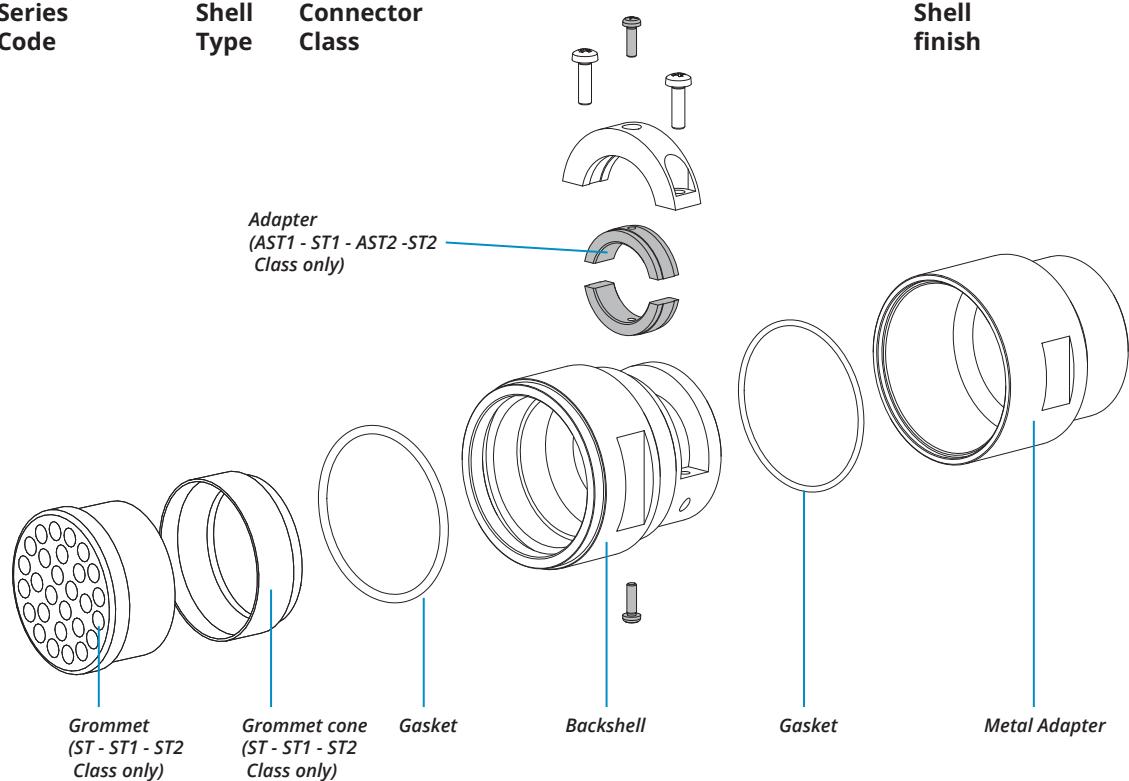


Series Code

Shell Type

Connector Class

Shell finish



SHELL

| | | | | | | | |
|-------------------------------|--------------------------|------|---|--------------------------------|---------------------|-----|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> 24-10 | Insert Arrangement | | Page 14 |
| <input type="checkbox"/> KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | <input type="checkbox"/> S | Contact Gender | S | Socket contacts |
| | | | | <input type="checkbox"/> P | | P | Pin contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> X | Polarization Code** | | Page 14 |
| <input type="checkbox"/> 06 | Shell Type | 06 | Plug Connector without grounding finger | <input type="checkbox"/> LC | Contact Termination | LC | Less contacts |
| | | 96 | Plug Connector with grounding finger | <input type="checkbox"/> - | Contact Plating | - | Silver plating |
| | | AST | with waterproof O-ring (IP67****) | <input type="checkbox"/> CD5 | | CD5 | Gold plating |
| <input type="checkbox"/> ST | Connector Class | ST | with waterproof O-ring and grommet (IP67****) | <input type="checkbox"/> F26 | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | | AST1 | with waterproof O-ring (IP67****) | | | F26 | hard anodization (*) |
| | | ST1 | with waterproof O-ring and grommet (IP67****) | <input type="checkbox"/> N | Modification Code** | N | Consult our sales office |
| | | AST2 | with waterproof O-ring (IP67****) | | | S | |
| | | ST2 | with waterproof O-ring and grommet (IP67****) | | | | |
| <input type="checkbox"/> T | Connector Modification** | T | With plastic caps | | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

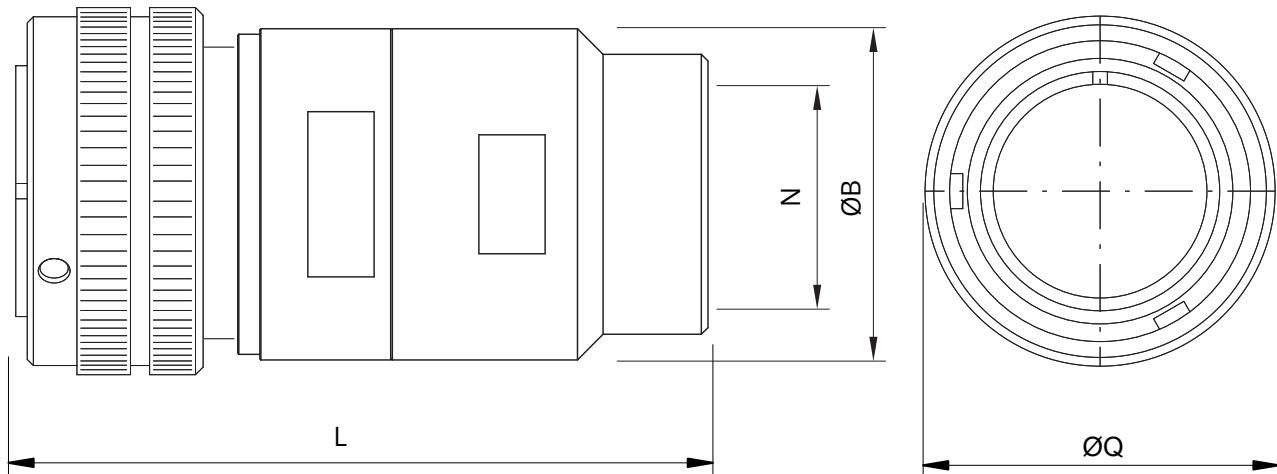
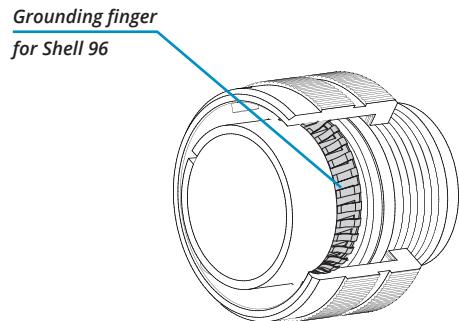
P/N Sample: KVBS 06STT 24-10SX LC F26 N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (06/96) with Backshell Class (AST..M - ST..M)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an internal Metric thread

SHELL



| Shell size | ØQ | ØB ±0.2 | L | N Backshell Thread Metric | Cable Range | | |
|------------|------|------------|-------|------------------------------------|-------------|-------|-------|
| | | | | | ST | ST1 | ST2 |
| 18 | 37 | 30 | 110 | M16 - M20 | 14-9 | 9-4 | * |
| 20 | 41 | 32 | 121 | M20 | 19-14 | 14-9 | * |
| 22 | 43 | 38 | 122,2 | M25 | 19-14 | 14-9 | * |
| 24 | 48 | 45 | 115 | M25 | 23-18 | 18-13 | * |
| 28 | 53 | 48 | 115 | M32 | 23-18 | 18-13 | * |
| 36 | 66.2 | 58 | 135 | M32 - M40 | 33-25 | 25-18 | * |
| 40 | 72.4 | 65 | 135 | M40 - M50 | 39-31 | 31-24 | 24-16 |

Dimensions in mm

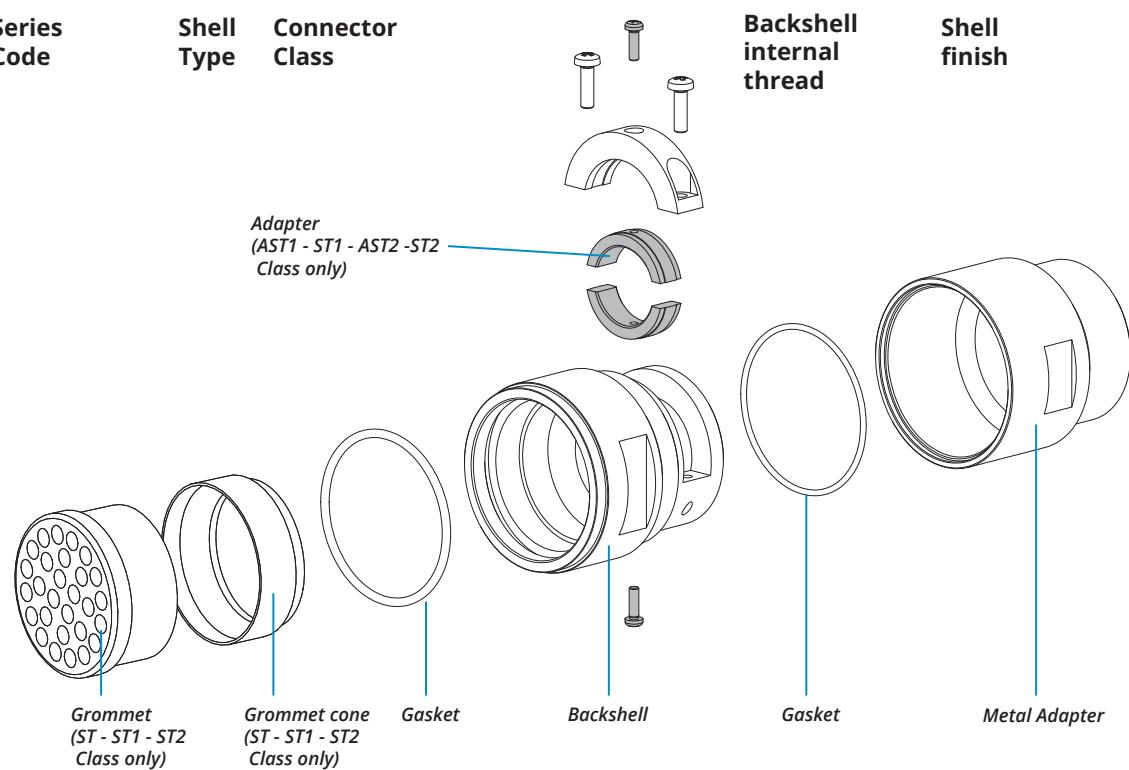
* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps

| | | | | | | | | | | | | | |
|--|------|--|----|----|---|-------|---|---|-----|----|-----|--|---|
| | KVBS | | 06 | ST | T | 24-10 | S | X | M20 | LC | F26 | | N |
|--|------|--|----|----|---|-------|---|---|-----|----|-----|--|---|

Series Code Shell Type Connector Class



| | | | | | | | | |
|-------------------------------|--------------------------|------|---|------------------------------|---------------------------|------------------------------|---|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | Page 14 | | |
| <input type="checkbox"/> KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | <input type="checkbox"/> S | Contact Gender | <input type="checkbox"/> S | Socket contacts | |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> P | Pin contacts | | | |
| <input type="checkbox"/> 06 | Shell Type | 06 | Plug Connector without grounding finger | <input type="checkbox"/> X | Polarization Code** | Page 14 | | |
| | | 96 | Plug Connector with grounding finger | <input type="checkbox"/> M20 | Backshell internal thread | <input type="checkbox"/> Mxx | Provided with an internal Metric thread | |
| <input type="checkbox"/> ST | Connector Class | AST | with waterproof O-ring (IP67***) | <input type="checkbox"/> LC | Contact Termination | <input type="checkbox"/> LC | Less contacts | |
| | | ST | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> - | Contact Plating | <input type="checkbox"/> - | Silver plating | |
| | | AST1 | with waterproof O-ring (IP67***) | <input type="checkbox"/> CD5 | Gold plating | | | |
| | | ST1 | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> F26 | Shell finish | <input type="checkbox"/> F16 | CCF - Black passivation (* conductive | |
| | | AST2 | with waterproof O-ring (IP67***) | | | <input type="checkbox"/> F26 | hard anodization (*) | |
| | | ST2 | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> N | Modification Code** | <input type="checkbox"/> N | Consult our sales office | |
| <input type="checkbox"/> T | Connector Modification** | T | With plastic caps | | | <input type="checkbox"/> S | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

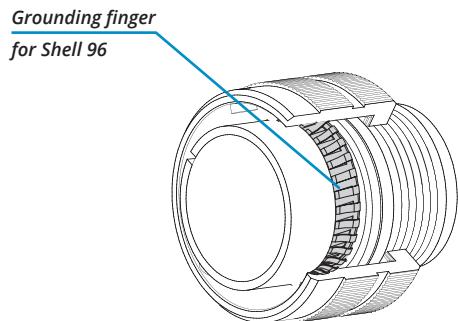
P/N Sample: KVBS 06STT 24-10SX M20 LC F26 N

KVBS - Bayonet Connector with protected mating ramps

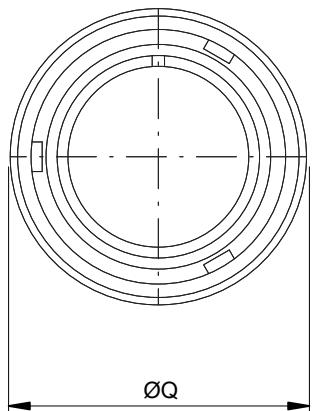
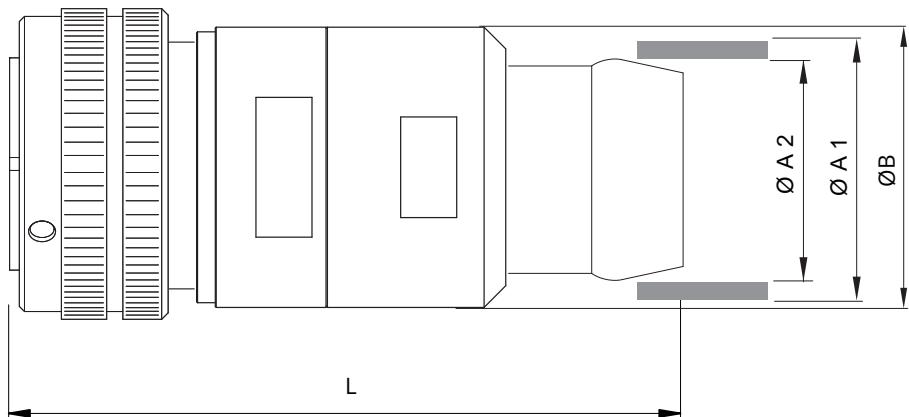
Plug Connector (06/96) with Backshell Class (AST..FS - ST..FS)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with a special adapter for UNI4883 rubber conduits

SHELL



Rubber Conduit
not included



| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|------------|------------------------|-----|-----|
| 24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3833 | 38 | 33 |
| 36 | FS4035 | 40 | 35 |
| 40 | FS5040 | 50 | 40 |
| 36 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |

Please consult our Sales Office for further details about this dimension and according to conduit size.

| Shell size | ØQ | ØB ±0.2 | L | Cable Range | | |
|------------|------|------------|-------|-------------|-------|-------|
| | | | | ST | ST1 | ST2 |
| 18 | 37 | 30 | 110 | 14-9 | 9-4 | * |
| 20 | 41 | 32 | 121 | 19-14 | 14-9 | * |
| 22 | 43 | 38 | 122,2 | 19-14 | 14-9 | * |
| 24 | 48 | 45 | 115 | 23-18 | 18-13 | * |
| 28 | 53 | 48 | 115 | 23-18 | 18-13 | * |
| 36 | 66,2 | 58 | 135 | 33-25 | 25-18 | * |
| 40 | 72,4 | 65 | 135 | 39-31 | 31-24 | 24-16 |

Dimensions in mm

* On request (please consult our Sales Office)

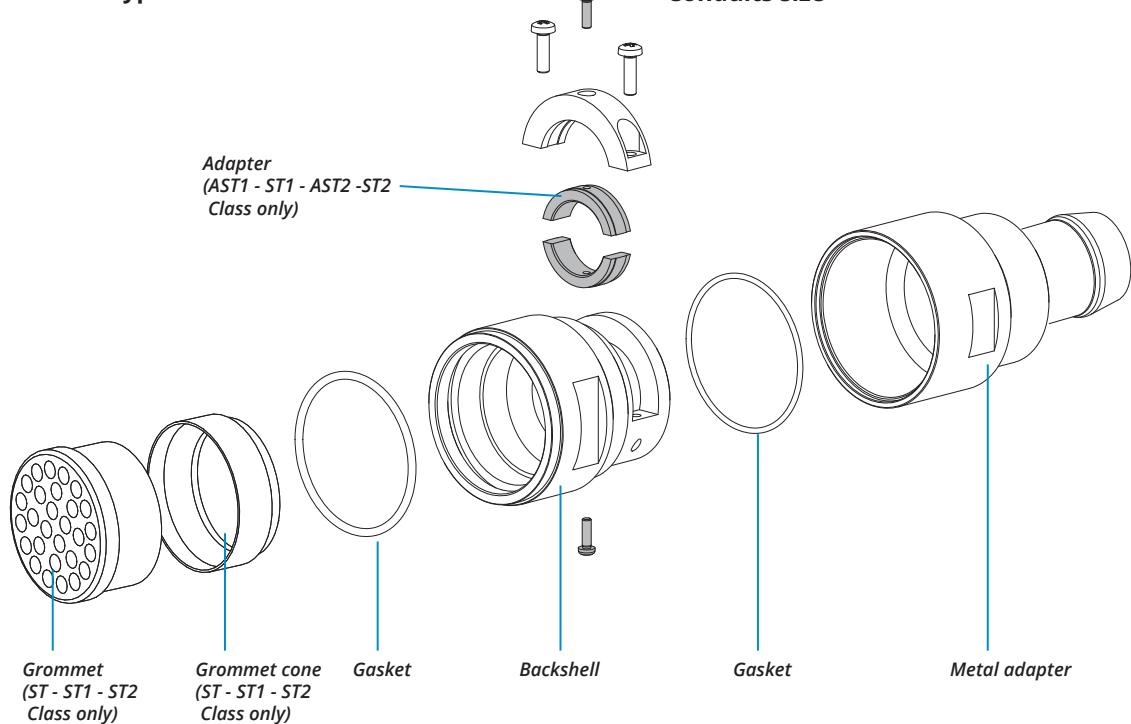
Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code Shell Type Connector Class

Backshell Conduits size Shell finish



SHELL

| | | | | | | | |
|-------------------------------|--------------------------|------|---|------------------------------|-------------------------|------|---|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | | Page 14 |
| <input type="checkbox"/> KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | S | Contact Gender | S | Socket contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | X | Polarization Code** | P | Pin contacts |
| <input type="checkbox"/> 06 | Shell Type | 06 | Plug Connector without grounding finger | FS | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits |
| | | 96 | Plug Connector with grounding finger | xxxx | Conduit Size | xxxx | ØA1ØA2 |
| <input type="checkbox"/> ST | Connector Class | AST | with waterproof O-ring (IP67***) | LC | Contact Termination | LC | Less contacts |
| | | ST | with waterproof O-ring and grommet (IP67***) | - | Contact Plating | - | Silver plating |
| | | AST1 | with waterproof O-ring (IP67***) | | | CD5 | Gold plating |
| | | ST1 | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> F26 | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | | AST2 | with waterproof O-ring (IP67***) | | | F26 | hard anodization (*) |
| | | ST2 | with waterproof O-ring and grommet (IP67***) | N | Modification Code** | N | Consult our sales office |
| <input type="checkbox"/> T | Connector Modification** | T | With plastic caps | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

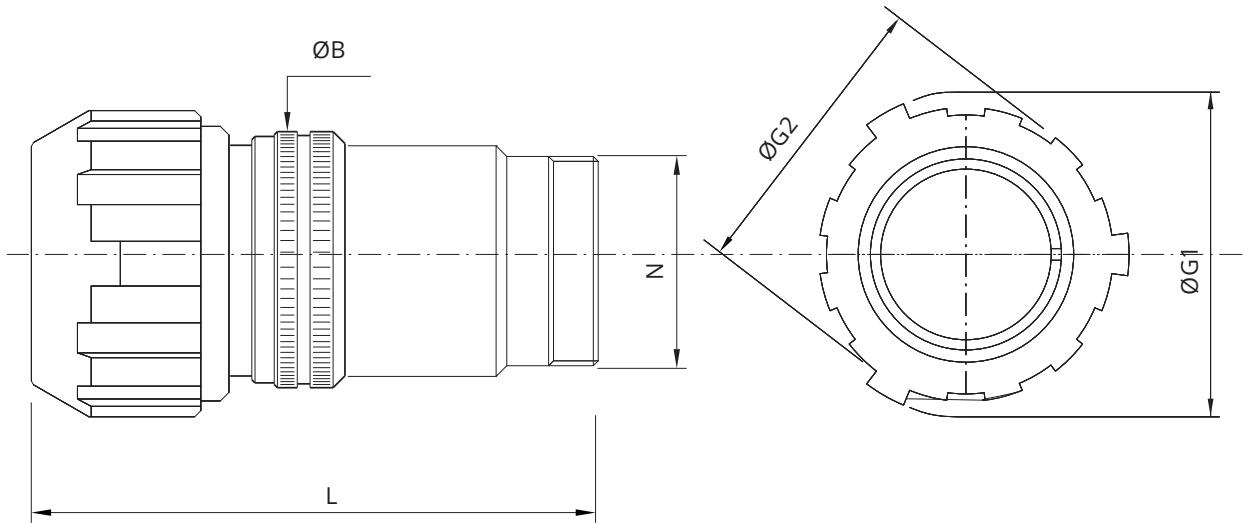
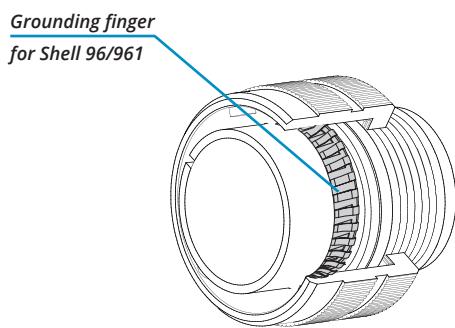
P/N Sample: KVBS 06STT 24-10SX FS2015 LC F26 N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (06..GG - 61..GG - 96..GG - 961..GG) with Backshell Class (A - DA - RA)

Connector with backshell provided with an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately). Rubber covered coupling nut able to protect against dust and impact.

SHELL



| Shell size | ØG1 | ØG2 | ØB ±0.2 | L max | N Backshell Thread in inches |
|------------|------|------|------------|----------|------------------------------------|
| 18 | 49 | 43.5 | 30 | 104 | 1"-20 UNEF |
| 20 | 51.5 | 46 | 32 | 104 | 1" 3/16-18 UNEF |
| 22 | 56 | 50.5 | 37 | 104 | 1" 3/16-18 UNEF |
| 24 | 60 | 54 | 40 | 109 | 1" 7/16-18 UNEF |
| 28 | 67 | 61 | 45 | 109 | 1" 7/16-18 UNEF |
| 36 | 82 | 73.5 | 58 | 129 | 2"-18 UNS |
| 40 | 88 | 80 | 63.8 | 129 | 2"1/4-16 UN |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series
Code

Shell
Type

Connector
Class

Shell
finish

| | | | | | | | | | | | |
|----------------------------|------------------------|-------------|-----------|----------|--------------|----------|----------|-----------|----------|------------|----------|
| KVBS | 06 | DA | GG | T | 24-10 | S | X | LC | - | F26 | N |
| Insulating material | - | | | | | | | | | | |
| | | | | | | | | | | | |
| KVBS | Series Code | KVBS | | | | | | | | | |
| | | | | | | | | | | | |
| Shell Material | - | | | | | | | | | | |
| | | | | | | | | | | | |
| 06 | | | | | | | | | | | |
| Shell Type | | | | | | | | | | | |
| | | | | | | | | | | | |
| DA | Connector Class | | | | | | | | | | |
| | | | | | | | | | | | |

Insulating material

Thermoplastic resin

GG

Coupling Nut Type

GG

Rubber Covered

KVBS

Series Code

KVBS

Bayonet Connector with protected mating ramps

T

Connector Modification**

T

With plastic caps

Shell Material

Shell Material

Aluminum

24-10

Insert Arrangement

Page 14

06

Shell Type

06

Plug Connector without grounding finger

96

Plug Connector with grounding finger

61

Plug Connector without grounding finger
Rubber covered coupling nut (short version)

A

non watertight

DA

with waterproof O-ring (IP67***)

RA

with waterproof O-ring and grommet (IP67***)

LC

Contact Termination

LC

Less contacts

-

Contact Plating

-

Silver plating

CD5

Gold plating

F26

Shell finish

F16

CCF - Black passivation (*) - conductive

F26

hard anodization (*)

N

Modification Code**

N

Consult our sales office

S

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBS 06DAGGT 24-10SX LC F26 N

KVBS - Bayonet Connector with protected mating ramps

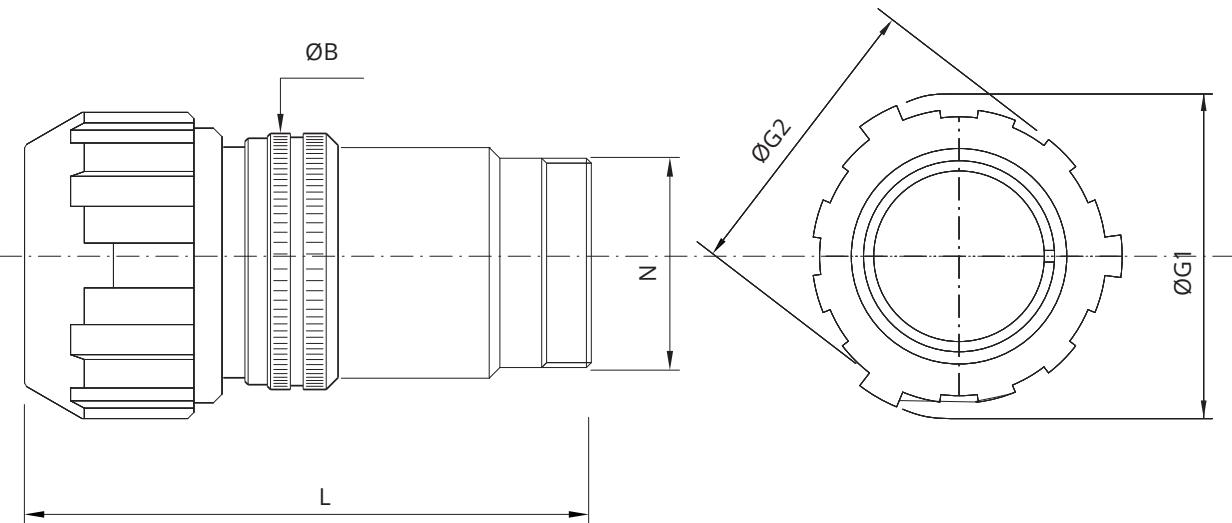
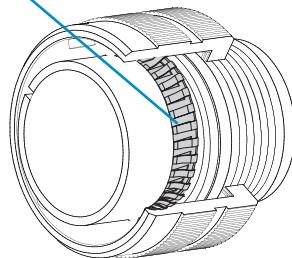
Plug Connector with rubber covered coupling nut (06..GG - 61..GG - 96..GG - 961..GG) with Backshell Class (SA - SDA - SRA)

Connector with SHORT backshell provided with an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately). Rubber covered coupling nut able to protect against dust and impact.

SHELL



Grounding finger
for Shell 96/961



| Shell size | ØG1 | ØG2 | ØB ±0.2 | L max | N Backshell Thread in inches |
|------------|------|------|------------|----------|------------------------------------|
| 18 | 49 | 43.5 | 30 | * | 1"-20 UNEF |
| 20 | 51.5 | 46 | 32 | * | 1" 3/16-18 UNEF |
| 22 | 56 | 50.5 | 37 | * | 1" 3/16-18 UNEF |
| 24 | 60 | 54 | 40 | * | 1" 7/16-18 UNEF |
| 28 | 67 | 61 | 45 | * | 1" 7/16-18 UNEF |
| 36 | 82 | 73.5 | 58 | * | 2"-18 UNS |
| 40 | 88 | 80 | 63.8 | * | 2"1/4-16 UN |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series
Code

Shell
Type

Connector
Class

Shell
finish

KVBS

06

SDA

GG

T

24-10

S

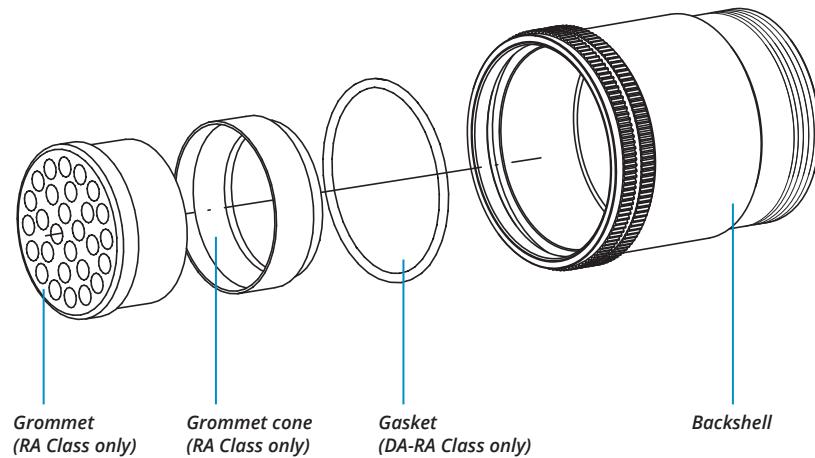
X

LC

-

F26

N



| | | | | | | | |
|--------------------------|---------------------|-------------|--|--------------|--------------------------|------------|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | GG | Coupling Nut Type | GG | Rubber Covered |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | T | Connector Modification** | T | With plastic caps |
| <input type="checkbox"/> | Shell Material | - | Aluminum | 24-10 | Insert Arrangement | | Page 14 |
| | | 06 | Plug Connector without grounding finger | S | Contact Gender | S | Socket contacts |
| | | 96 | Plug Connector with grounding finger | | | P | Pin contacts |
| 06 | Shell Type | 61 | Plug Connector without grounding finger Rubber covered coupling nut (short version) | X | Polarization Code** | | Page 14 |
| | | 961 | Plug Connector Rubber covered coupling nut (short version) with grounding finger | LC | Contact Termination | LC | Less contacts |
| | | SA | non watertight | - | Contact Plating | - | Silver plating |
| SDA | Connector Class | SDA | with waterproof O-ring (IP67***) | | | CD5 | Gold plating |
| | | SRA | with waterproof O-ring and grommet (IP67***) | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | | | | | | F26 | hard anodization (*) |
| | | N | Modification Code** | N | | S | Consult our sales office |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

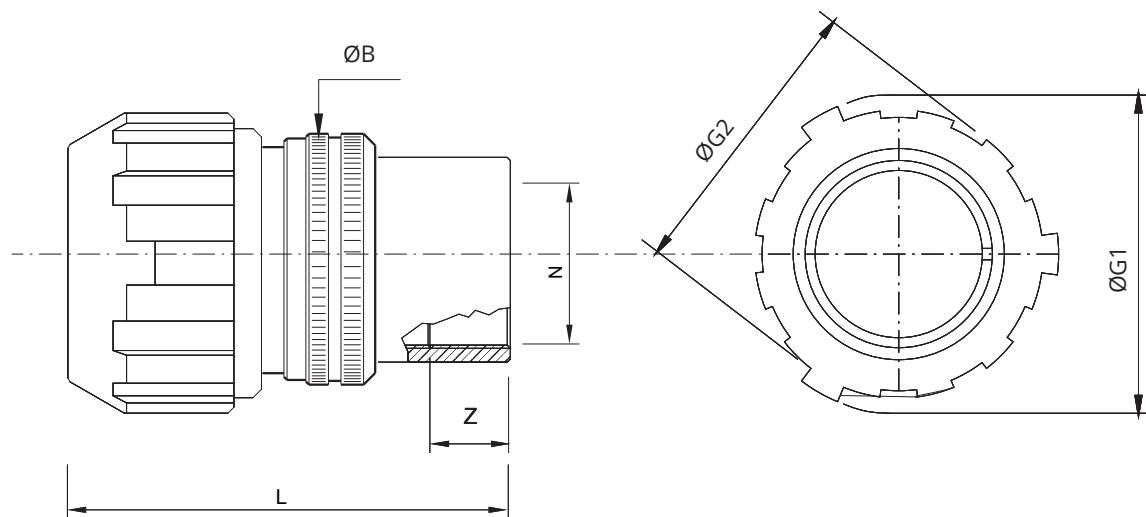
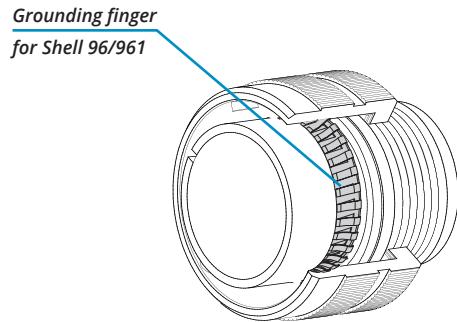
P/N Sample: KVBS 06SDAGGT 24-10SX LC F26 N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (06..GG - 61..GG - 96..GG - 961..GG) with Backshell Class (DA..M - RA..M)

Connector with backshell provided with an internal Metric thread suitable for cable glands or conduit adapters. Rubber covered coupling nut able to protect against dust and impact.

SHELL



| Shell size | ØG1 | ØG2 | ØB ±0.2 | L max | Z min | N Backshell Thread |
|------------|------|------|------------|----------|----------|--------------------------|
| 18 | 49 | 43.5 | 30 | 104 | * | M20 |
| 20 | 51.5 | 46 | 32 | 104 | 16 | M25 |
| 22 | 56 | 50.5 | 37 | 104 | * | M25 |
| 24 | 60 | 54 | 40 | 109 | * | M32 |
| 28 | 67 | 61 | 45 | 109 | 15 | M32 - M40 |
| 36 | 82 | 73.5 | 58 | 129 | * | M40 |
| 40 | 88 | 80 | 63.8 | 129 | * | M50 |

Dimensions in mm

* On Request

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code

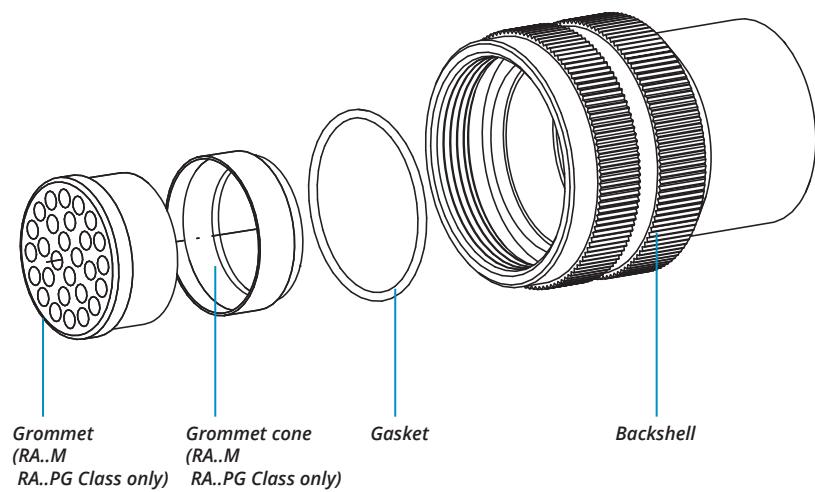
Shell Type

Connector Class

Backshell internal thread

Shell finish

SHELL



| | | | | | | | |
|-------------|----------------------------|-------------|--|--------------|----------------------------------|------------|--|
| KVBS | Insulating material | - | Thermoplastic resin | T | Connector Modification** | T | With plastic caps |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | 24-10 | Insert Arrangement | | Page 14 |
| 06 | Shell Material | - | Aluminum | S | Contact Gender | S | Socket contacts |
| | | 96 | Plug Connector without grounding finger | P | | P | Pin contacts |
| 06 | Shell Type | 61 | Plug Connector without grounding finger Rubber covered coupling nut (short version) | X | Polarization Code** | | Page 14 |
| | | 961 | Plug Connector Rubber covered coupling nut (short version) with grounding finger | M20 | Backshell internal thread | Mxx | Provided with an internal Metric thread |
| DA | Connector Class | DA | with waterproof O-ring (IP67***) | LC | Contact Termination | LC | Less contacts |
| | | RA | with waterproof O-ring and grommet (IP67***) | - | Contact Plating | - | Silver plating |
| GG | Coupling Nut Type | GG | Rubber Covered | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | | | | | | F26 | hard anodization (*) |
| | | | | N | Modification Code** | N | Consult our sales office |
| | | | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBS 06DAGGT 24-10SX M20 LC F26 N

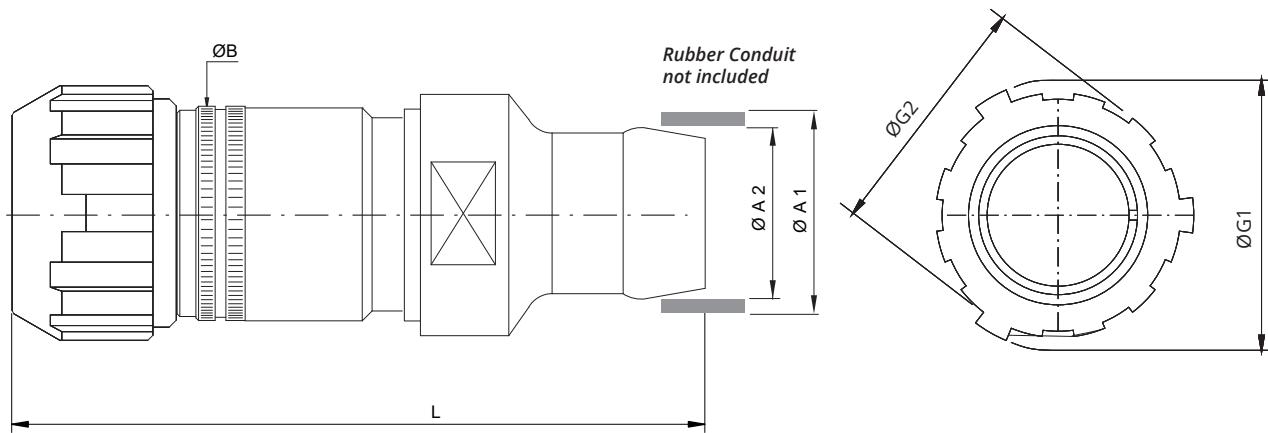
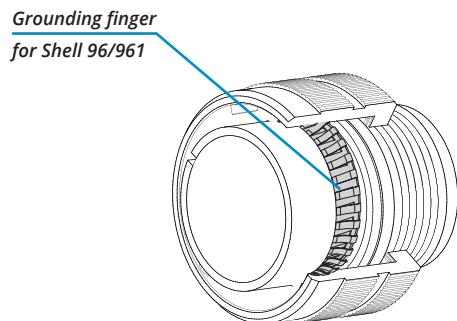
KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (06..GG - 61..GG - 96..GG - 961..GG) with Backshell Class (DA..FS - RA..FS)

Connector with special adapter for UNI4883 rubber conduits.

Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: KVBS 06DA...FS5040...).

SHELL



Please consult our Sales Office for further details about this dimension and according to conduit size.

| Shell size | ØG1 | ØG2 | L max | ØB max |
|------------|------|------|-------|--------|
| 18 | 49 | 43.5 | * | 30 |
| 20 | 51.5 | 46 | * | 32 |
| 22 | 56 | 50.5 | * | 37 |
| 24 | 60 | 54 | * | 40 |
| 28 | 67 | 61 | * | 45 |
| 36 | 82 | 73.5 | * | 58 |
| 40 | 88 | 80 | * | 63.8 |

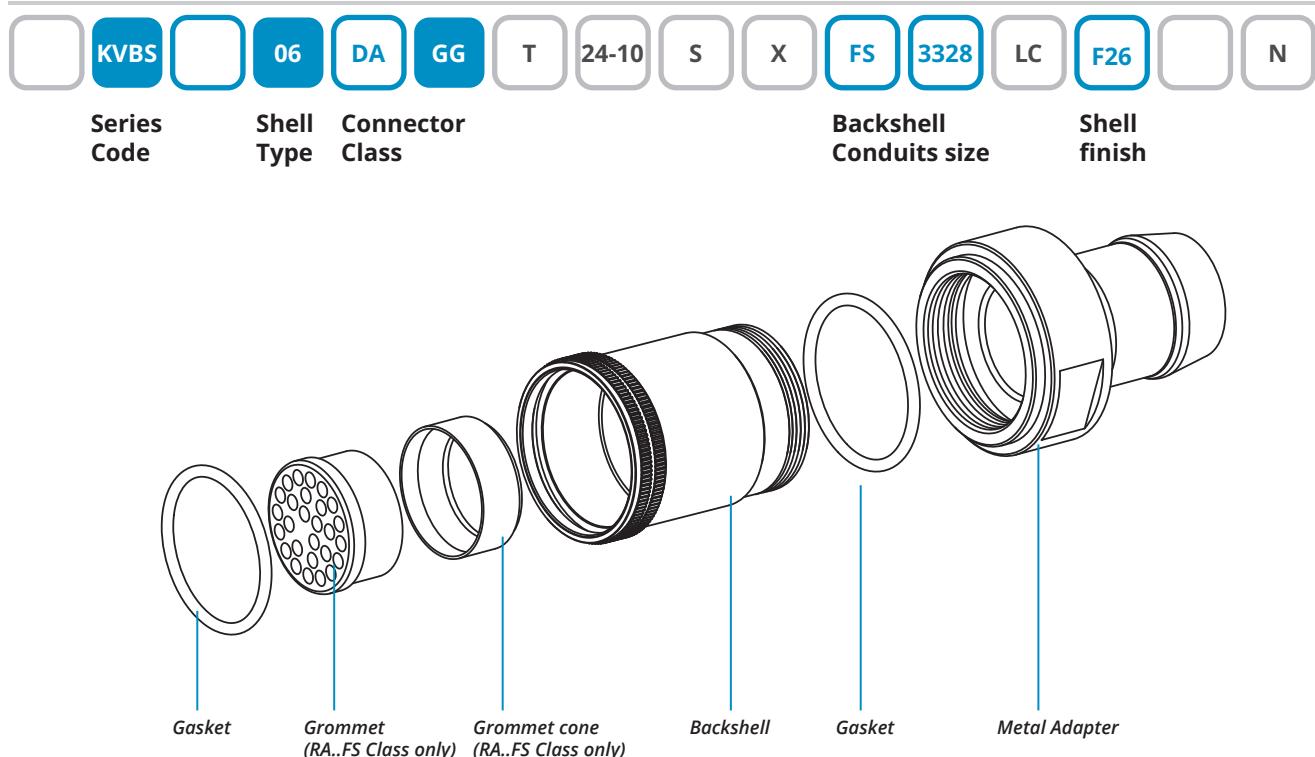
Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

| Shell size | Backshell | ØA1 | ØA2 |
|-------------|-----------|-----|-----|
| 16-18-20 | FS2015 | 20 | 15 |
| 20-22-24-28 | FS2520 | 25 | 20 |
| 18-20-22-24 | FS2722 | 27 | 22 |
| 20-22-24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3530 | 35 | 30 |
| 28-36 | FS4035 | 40 | 35 |
| 28-40 | FS4540 | 45 | 40 |
| 40 | FS5040 | 50 | 40 |
| 36-40 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |
| 40 | FS5945 | 59 | 45 |

KVBS - Bayonet Connector with protected mating ramps



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | |
|--------------|---------------------------------|--|---|
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps |
| KVBS | Shell Material | - | Aluminum |
| 06 | Shell Type | 06 | Plug Connector without grounding finger |
| | 96 | Plug Connector with grounding finger | |
| | 61 | Plug Connector without grounding finger Rubber covered coupling nut (short version) | |
| | 961 | Plug Connector Rubber covered coupling nut (short version) with grounding finger | |
| DA | Connector Class | DA | with waterproof O-ring (IP67***) |
| RA | | RA | with waterproof O-ring and grommet (IP67***) # |
| GG | Coupling Nut Type | GG | Rubber Covered |
| T | Connector Modification** | T | With plastic caps |
| 24-10 | Insert Arrangement | | Page 14 |
| S | Contact Gender | S | Socket contacts |
| P | | P | Pin contacts |
| X | Polarization Code** | | Page 14 |
| FS | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits |
| 3328 | Conduit Size | xxxx | ØA1ØA2 |
| LC | Contact Termination | LC | Less contacts |
| - | Contact Plating | - | Silver plating |
| | | CD5 | Gold plating |
| F26 | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | | F26 | hard anodization (*) |
| N | Modification Code** | N | |
| | | S | Consult our sales office |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

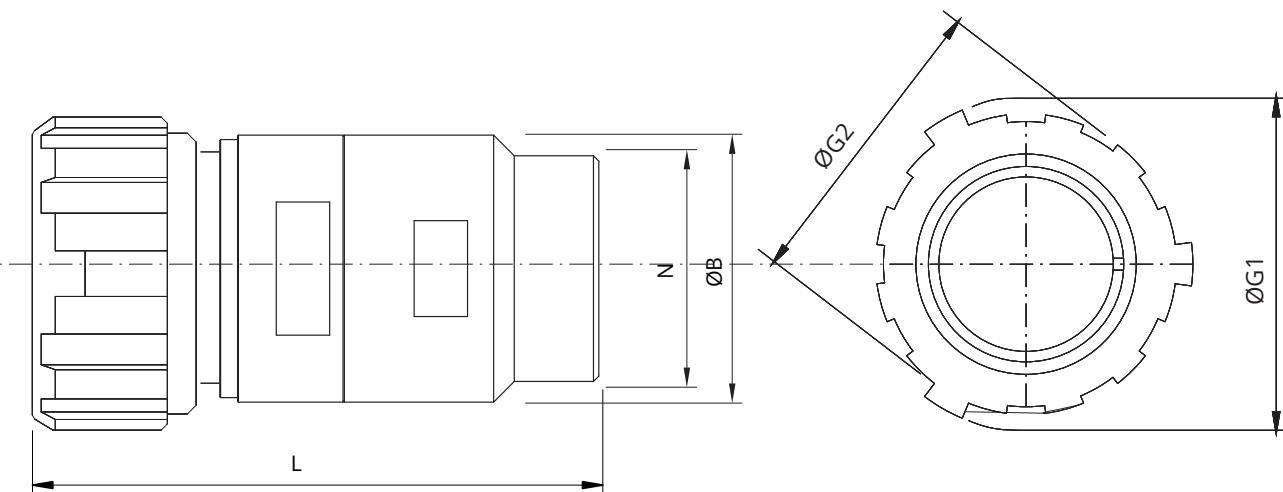
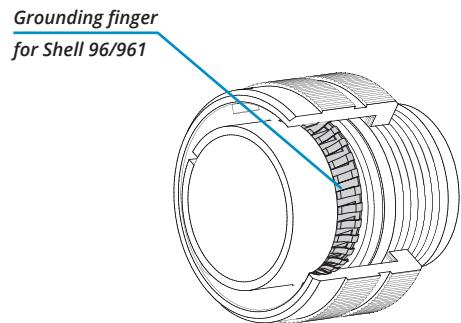
P/N Sample: KVBS 06DAGGT 24-10SX FS3328 LC F26 N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (06..GG - 61..GG - 96..GG - 961..GG) with Backshell Class (AST - ST)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an external unef thread. Rubber covered coupling nut able to protect against dust and impact.

SHELL



| Shell size | ØG1 | ØG2 | ØB ±0.2 | L | N Backshell Thread in inches | Cable Range | | |
|------------|------|------|---------|-------|------------------------------|-------------|-------|-------|
| | | | | | | ST | ST1 | ST2 |
| 18 | 49 | 43.5 | 30 | 114 | 1"-20 UNEF | 14-9 | 9-4 | * |
| 20 | 51.5 | 46 | 32 | 125 | 1" 3/16-18 UNEF | 19-14 | 14-9 | * |
| 22 | 56 | 50.5 | 38 | 126,2 | 1" 3/16-18 UNEF | 19-14 | 14-9 | * |
| 24 | 60 | 54 | 45 | 119 | 1" 7/16-18 UNEF | 23-18 | 18-13 | * |
| 28 | 67 | 61 | 48 | 119 | 1" 7/16-18 UNEF | 23-18 | 18-13 | * |
| 36 | 82 | 73.5 | 58 | 139 | 2"-18 UNS | 33-25 | 25-18 | * |
| 40 | 88 | 80 | 65 | 139 | 2"1/4-16 UN | 39-31 | 31-24 | 24-16 |

Dimensions in mm

* On request (please consult our Sales Office)

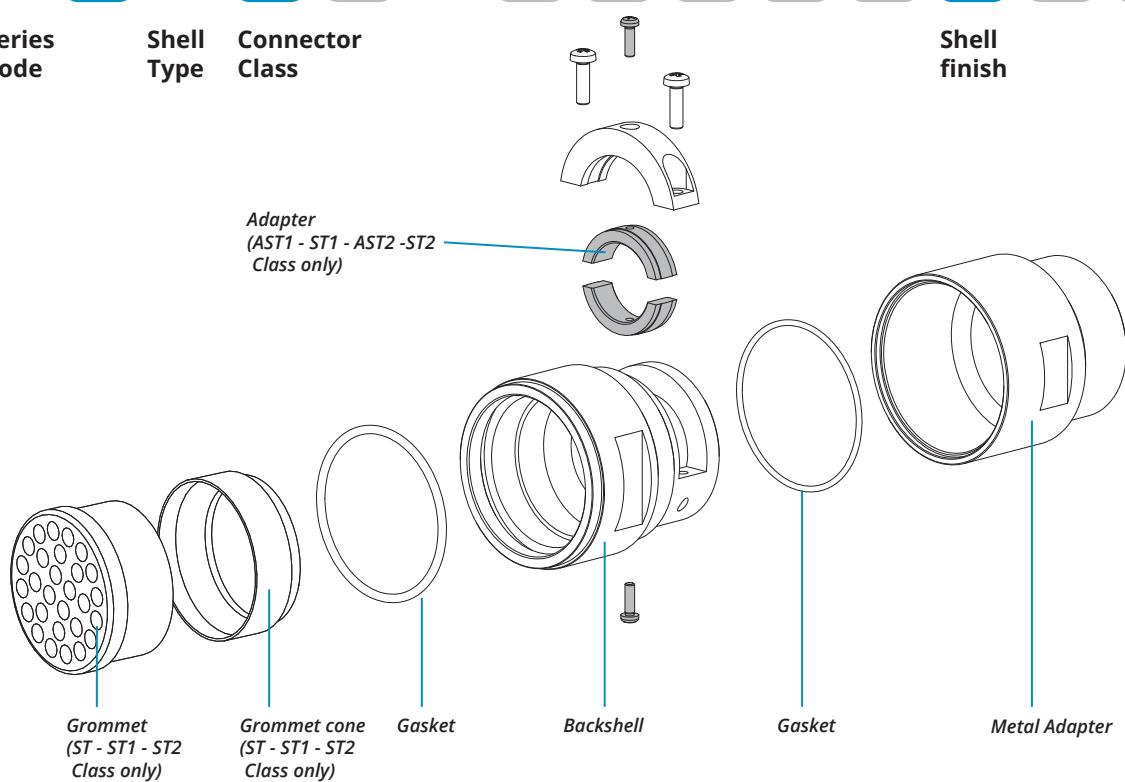
Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code Shell Type Connector Class

Shell finish



| | | | | | | | |
|--|---------------------|--|---|--|--------------------------|-----|--|
| | Insulating material | - | Thermoplastic resin | | Coupling Nut Type | GG | Rubber Covered |
| | Series Code | KVBS | Bayonet Connector with protected mating ramps | | Connector Modification** | T | With plastic caps |
| | Shell Material | - | Aluminum | | Insert Arrangement | | Page 14 |
| | 06 | Plug Connector without grounding finger | | | Contact Gender | S | Socket contacts |
| | 96 | Plug Connector with grounding finger | | | | P | Pin contacts |
| | 61 | Plug Connector without grounding finger Rubber covered coupling nut (short version) | | | Polarization Code** | | Page 14 |
| | 961 | Plug Connector Rubber covered coupling nut (short version) with grounding finger | | | Contact Termination | LC | Less contacts |
| | AST | with waterproof O-ring (IP67***) | | | | - | Silver plating |
| | ST | with waterproof O-ring and grommet (IP67***) | | | | CD5 | Gold plating |
| | AST1 | with waterproof O-ring (IP67***) | | | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | ST1 | with waterproof O-ring and grommet (IP67***) | | | | F26 | hard anodization (*) |
| | AST2 | with waterproof O-ring (IP67***) | | | Modification Code** | N | Consult our sales office |
| | ST2 | with waterproof O-ring and grommet (IP67***) | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

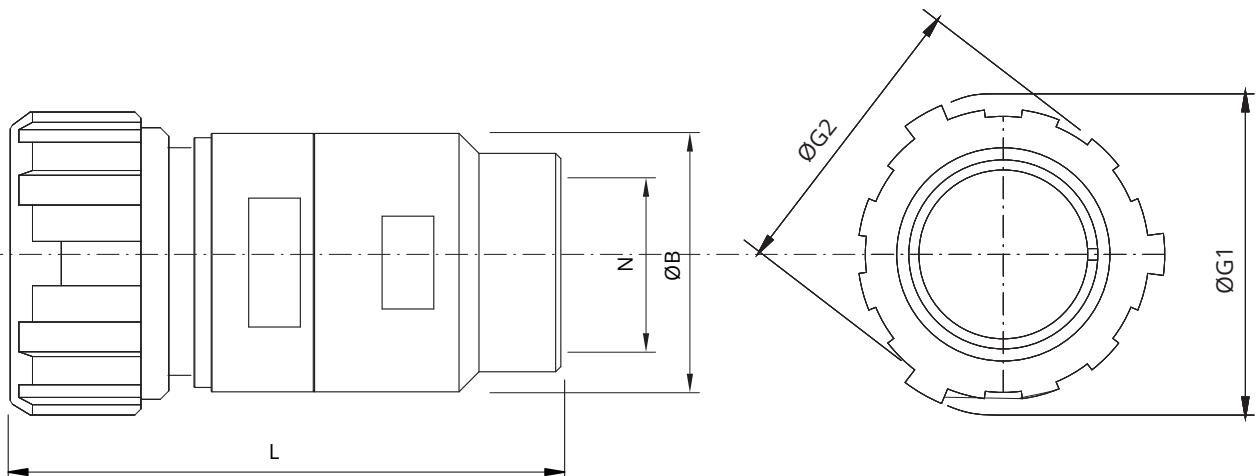
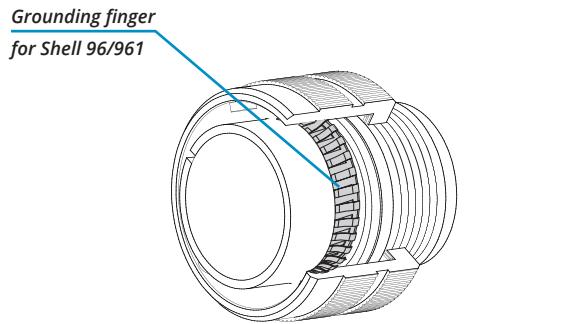
P/N Sample: KVBS 06STT 24-10SX LC F26 N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (06..GG - 61..GG - 96..GG - 961..GG) with Backshell Class (AST..M - ST..M)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an internal Metric thread. Rubber covered coupling nut able to protect against dust and impact.

SHELL



| Shell size | ØG1 | ØG1 | ØB ±0.2 | L | N Backshell Thread Metric | Cable Range | | |
|------------|------|------|------------|-------|---------------------------------|-------------|-------|-------|
| | | | | | | ST | ST1 | ST2 |
| 18 | 49 | 43.5 | 30 | 114 | M16 - M20 | 14-9 | 9-4 | * |
| 20 | 51.5 | 46 | 32 | 125 | M20 | 19-14 | 14-9 | * |
| 22 | 56 | 50.5 | 38 | 126,2 | M25 | 19-14 | 14-9 | * |
| 24 | 60 | 54 | 45 | 119 | M25 | 23-18 | 18-13 | * |
| 28 | 67 | 61 | 48 | 119 | M32 | 23-18 | 18-13 | * |
| 36 | 82 | 73.5 | 58 | 139 | M32 - M40 | 33-25 | 25-18 | * |
| 40 | 88 | 80 | 65 | 139 | M40 - M50 | 39-31 | 31-24 | 24-16 |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

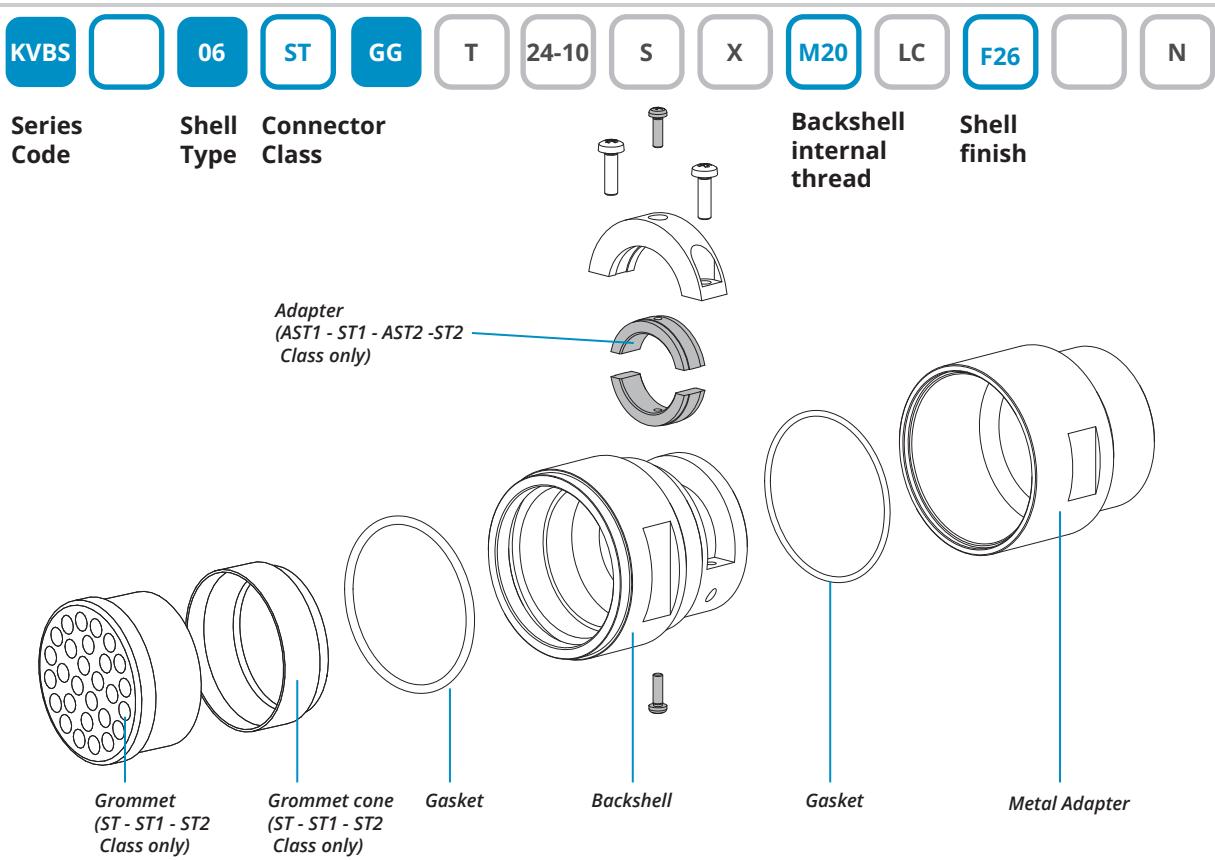
KVBS - Bayonet Connector with protected mating ramps



Series Code

Shell Type

Connector Class



| | | | | | |
|--|------------------------|--|---|-----------------------------------|---|
| <input type="checkbox"/> Insulating material | - | Thermoplastic resin | GG Coupling Nut Type | GG | Rubber Covered |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | T Connector Modification** | T With plastic caps |
| <input type="checkbox"/> Shell Material | - | Aluminum | 24-10 Insert Arrangement | | Page 14 |
| | 06 | Plug Connector without grounding finger | S Contact Gender | S | Socket contacts |
| | 96 | Plug Connector with grounding finger | | P | Pin contacts |
| | 61 | Plug Connector without grounding finger Rubber covered coupling nut (short version) | X Polarization Code** | | Page 14 |
| | 961 | Plug Connector Rubber covered coupling nut (short version) with grounding finger | M20 Backshell internal thread | Mxx | Provided with an internal Metric thread |
| 06 | Shell Type | | LC Contact Termination | LC | Less contacts |
| ST | Connector Class | | - Contact Plating | | Silver plating |
| | | | | CD5 | Gold plating |
| | | | F26 Shell finish | F16 | CCF - Black passivation (*) |
| | | | | F26 | hard anodization (*) |
| | | | N Modification Code** | N | Consult our sales office |
| | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

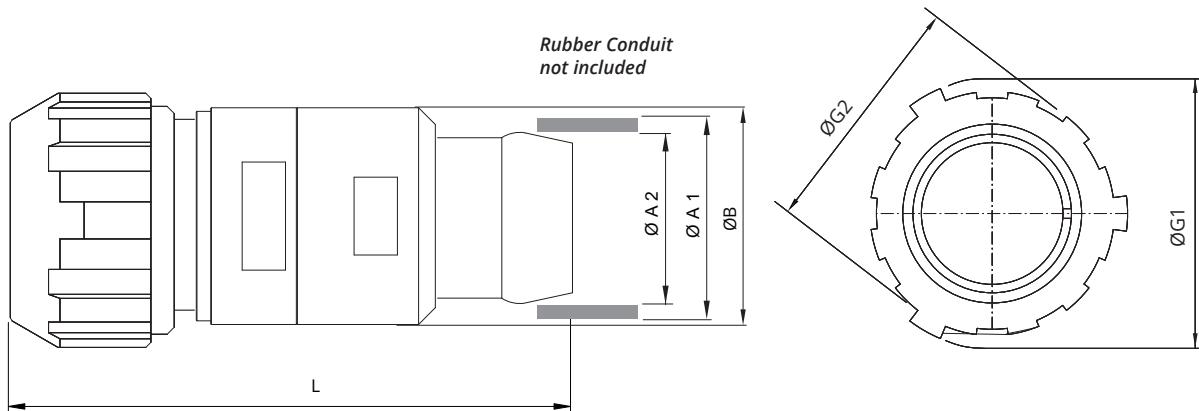
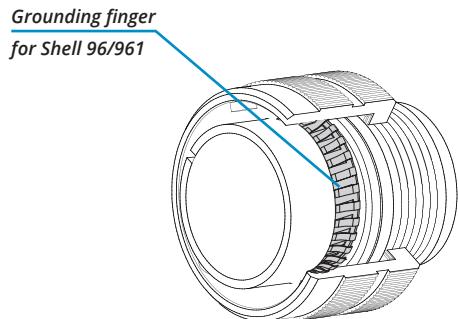
P/N Sample: KVBS 06STGGT 24-10SX M20 LC F26 N

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (06..GG - 61..GG - 96..GG - 961..GG) with Backshell Class (AST..FS - ST..FS)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with a special adapter for UNI4883 rubber conduits

SHELL



| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|------------|------------------------|-----|-----|
| 24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3833 | 38 | 33 |
| 36 | FS4035 | 40 | 35 |
| 40 | FS5040 | 50 | 40 |
| 36 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |

Please consult our Sales Office for further details about this dimension and according to conduit size.

| Shell size | ØG1 | ØG12 | ØB ±0.2 | L | Cable Range | | |
|------------|------|------|------------|-----|-------------|-------|-------|
| | | | | | ST | ST1 | ST2 |
| 18 | 49 | 43.5 | 30 | 120 | 14-9 | 9-4 | * |
| 20 | 51.5 | 46 | 32 | * | 19-14 | 14-9 | * |
| 22 | 56 | 50.5 | 38 | * | 19-14 | 14-9 | * |
| 24 | 60 | 54 | 45 | * | 23-18 | 18-13 | * |
| 28 | 67 | 61 | 48 | * | 23-18 | 18-13 | * |
| 36 | 82 | 73.5 | 58 | * | 33-25 | 25-18 | * |
| 40 | 88 | 80 | 65 | * | 39-31 | 31-24 | 24-16 |

Dimensions in mm

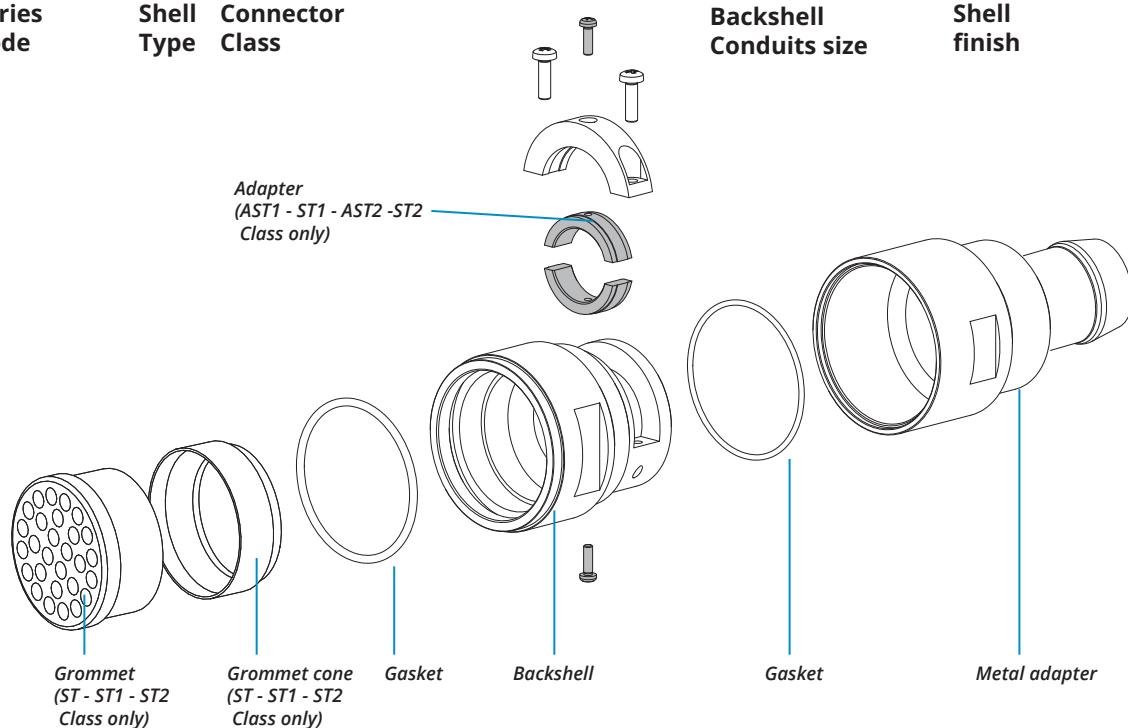
** On request (please consult our Sales Office)*

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|------|--------------------------|----|----|----|--------------------------|---|-------|--------------------------|---|--------------------------|---|--------------------------|----|--------------------------|------|--------------------------|----|--------------------------|-----|--------------------------|---|
| <input type="checkbox"/> | KVBS | <input type="checkbox"/> | 06 | ST | GG | <input type="checkbox"/> | T | 24-10 | <input type="checkbox"/> | S | <input type="checkbox"/> | X | <input type="checkbox"/> | FS | <input type="checkbox"/> | xxxx | <input type="checkbox"/> | LC | <input type="checkbox"/> | F26 | <input type="checkbox"/> | N |
|--------------------------|------|--------------------------|----|----|----|--------------------------|---|-------|--------------------------|---|--------------------------|---|--------------------------|----|--------------------------|------|--------------------------|----|--------------------------|-----|--------------------------|---|

Series Code Shell Type Connector Class Backshell Conduits size Shell finish



| | | | | | | | |
|--------------------------|--------------------------|-------------|---|--------------------------|----------------------------|------------|---|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> | Connector Modification** | T | With plastic caps |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | 24-10 | Insert Arrangement | | Page 14 |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> | Contact Gender | S | Socket contacts |
| | | 06 | Plug Connector without grounding finger | <input type="checkbox"/> | Polarization Code** | P | Pin contacts |
| | | 96 | Plug Connector with grounding finger | <input type="checkbox"/> | | | |
| 06 | Shell Type | 61 | Plug Connector without grounding finger Rubber covered coupling nut (short version) | <input type="checkbox"/> | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits |
| | | 961 | Plug Connector Rubber covered coupling nut (short version) with grounding finger | <input type="checkbox"/> | Conduit Size | xxxx | ØA1ØA2 |
| ST | Connector Class | AST | with waterproof O-ring (IP67***) | <input type="checkbox"/> | Contact Termination | LC | Less contacts |
| | | ST | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> | | | |
| | | AST1 | with waterproof O-ring (IP67***) | <input type="checkbox"/> | Contact Plating | - | Silver plating |
| | | ST1 | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> | | CD5 | Gold plating |
| | | AST2 | with waterproof O-ring (IP67***) | <input type="checkbox"/> | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | | ST2 | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> | | F26 | hard anodization (*) |
| GG | Coupling Nut Type | GG | Rubber Covered | <input type="checkbox"/> | Modification Code** | N | Consult our sales office |
| | | | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBS 06STGGT 24-10SX FS2015 LC F26 N

KVBS - Bayonet Connector with protected mating ramps

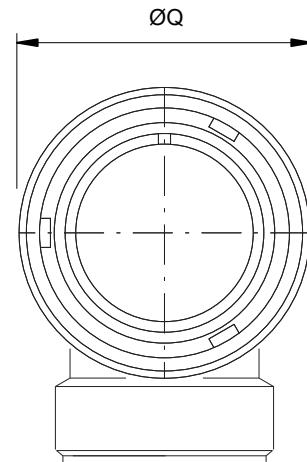
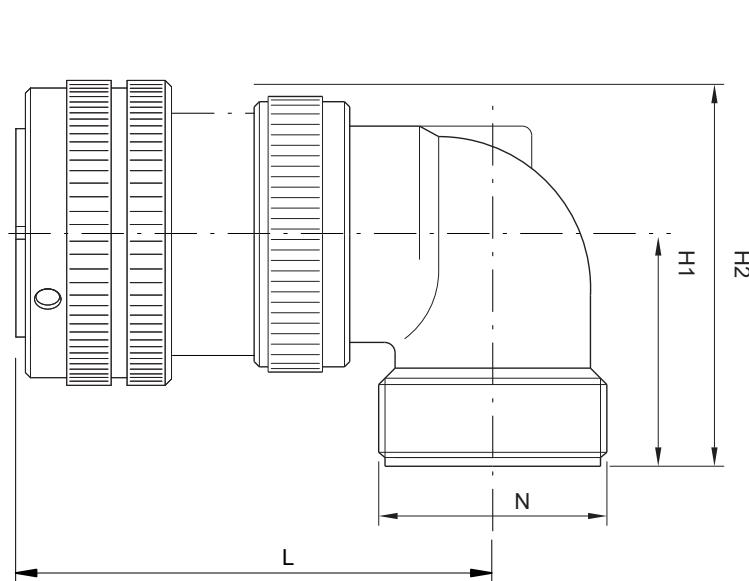
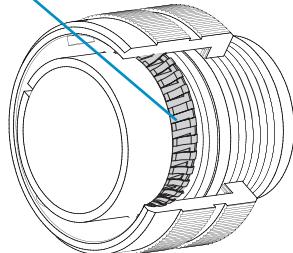
Plug Connector (08/98) with 90° Elbow Class (A - DA - RA)

Connector with 90° elbow provided with an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately).

SHELL



Grounding finger
for Shell 98



| Shell size | ØQ ±0.2 | L max | H1 max | H2 max | N Backshell Thread in inches |
|------------|------------|----------|-----------|-----------|------------------------------------|
| 18 | 37 | 75 | 31 | 48.1 | 1"-20 UNEF |
| 20 | 41 | 80 | 33 | 51.7 | 1" 3/16-18 UNEF |
| 22 | 43 | 80 | 35 | 55.3 | 1" 3/16-18 UNEF |
| 24 | 48 | 80 | 38 | 59.8 | 1" 7/16-18 UNEF |
| 28 | 53 | 80 | 40 | 65 | 1" 7/16-18 UNEF |
| 36 | 66.2 | 90 | 49 | 80.3 | 2"-18 UNS |
| 40 | 72.4 | 95 | 53 | 87.6 | 2"1/4-16 UN |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

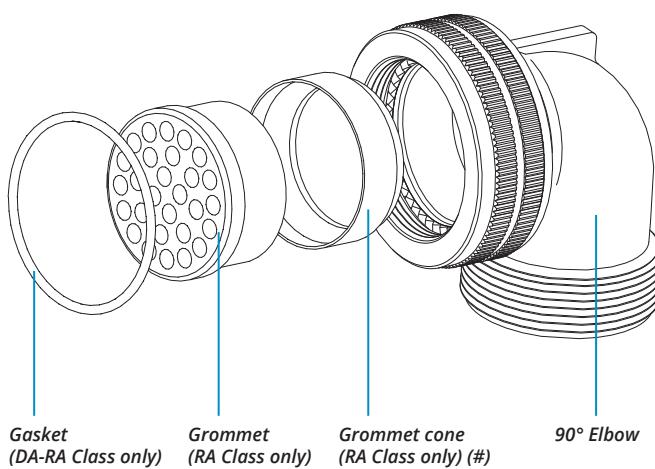
KVBS - Bayonet Connector with protected mating ramps



Series Code Shell Material Type Shell Connector Class

Shell finish

SHELL



| | | | | | | | |
|--------------------------|--------------------------|-------------|--|--------------|---------------------|--|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | Page 14 | |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | S | Contact Gender | S Socket contacts P Pin contacts | |
| <input type="checkbox"/> | Shell Material | - | Aluminum | X | Polarization Code** | Page 14 | |
| 08 | Shell Type | 08 | Plug Connector with 90° elbow without grounding finger | LC | Contact Termination | LC Less contacts | |
| | | 98 | Plug Connector with 90° elbow with grounding finger | - | Contact Plating | - Silver plating CD5 Gold plating | |
| DA | Connector Class | A | non watertight | | | | |
| | | DA | with waterproof O-ring (IP67***) | F26 | Shell finish | F16 CCF - Black passivation (*) - conductive F26 hard anodization (*) | |
| | | RA | with waterproof O-ring and grommet (IP67***)# | N | Modification Code** | N S Consult our sales office | |
| T | Connector Modification** | T | With plastic caps | | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

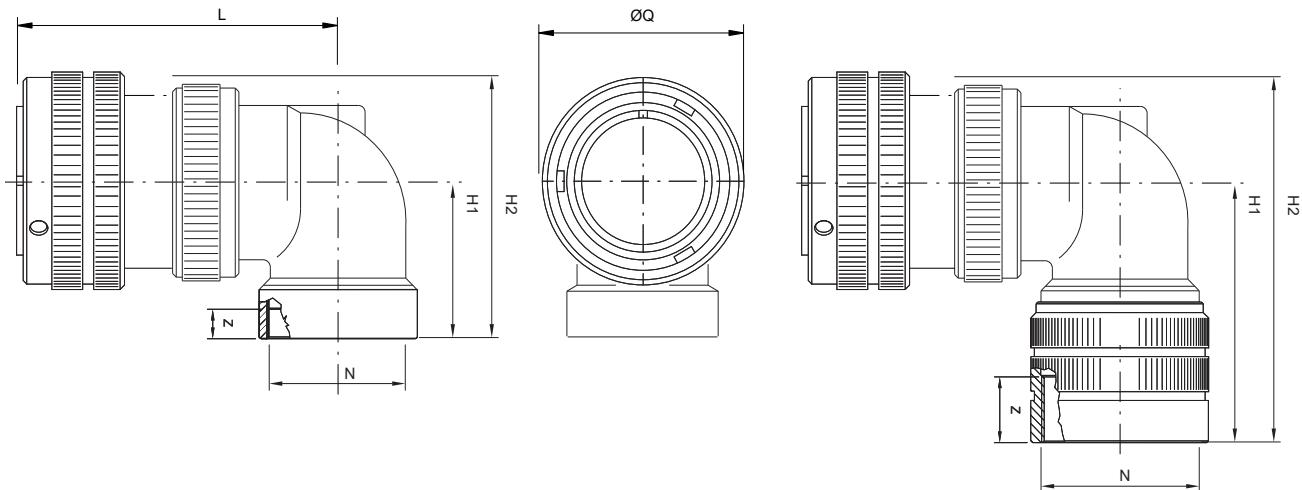
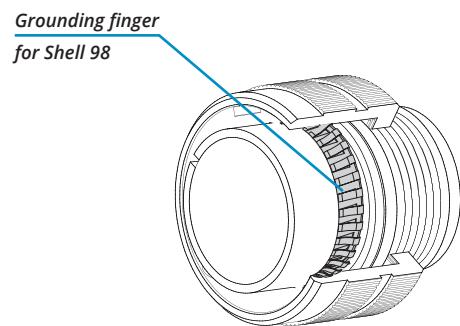
P/N Sample: KVBS 08DAT 24-10SX LC F26 N

(#) In some sizes the grommet cone is not needed

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (08/98) with 90° Elbow Class (DA...M - RA...M)

Connector with 90° elbow provided with an internal Metric thread suitable for cable glands or conduit adapters.



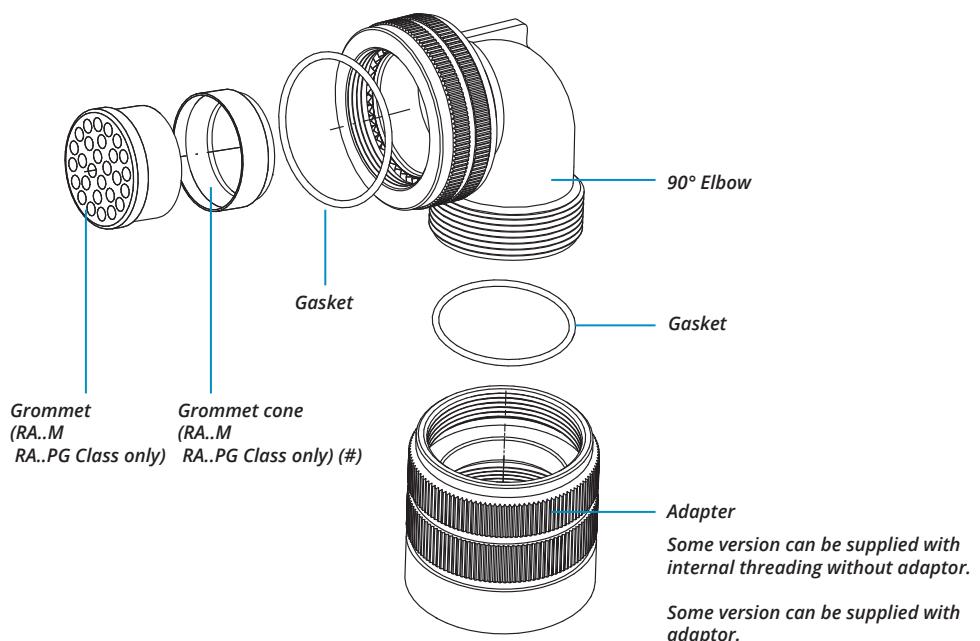
Some version can be supplied with internal threading without adaptor.
Some version can be supplied with adaptor.

| Shell size | Without adapter | | | | | | With adapter | | | | | |
|------------|-----------------|----------|----------|-----------|-----------|--------------------------|--------------|-----------|-----------|-----------------|--------|--|
| | ØQ ±0.2 | L max | Z min | H1 max | H2 max | N Backshell Thread | Z min | H1 max | H2 max | N Thread | Metric | |
| 18 | 37 | 75 | 7 | 31 | 48.1 | M20 | 12 | 60 | 75.2 | M25 | | |
| 20 | 41 | 80 | 7 | 33 | 51.7 | M25 | 12 | 62 | 80.7 | M16-M20-M32-M40 | | |
| 22 | 43 | 80 | 7 | 35 | 55.3 | M25 | 12 | 65 | 85.3 | M16-M20-M32-M40 | | |
| 24 | 48 | 80 | 7 | 38 | 59.8 | M32 | 15 | 69 | 90.8 | M25-M40 | | |
| 28 | 53 | 80 | 7 | 40 | 65 | M32 | 15 | 72 | 97 | M25-M40 | | |
| 36 | 66.2 | 90 | - | - | - | - | 15 | 81 | 112.3 | M32-M40 | | |
| 40 | 72.4 | 95 | - | - | - | - | 15 | 85 | 119.6 | M32-M40-M50 | | |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



| | | | | | | | |
|----------------------------|---------------------------|---------------------|--|----------------------------|--|-----------------|---|
| Insulating material | - | Thermoplastic resin | S | Contact Gender | S | Socket contacts | |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | P | Pin contacts | | |
| Shell Material | - | Aluminum | X | Polarization Code** | Page 14 | | |
| 08 | Shell Type | 08 | Plug Connector with 90° elbow without grounding finger | M20 | Backshell internal thread | Mxx | Provided with an internal Metric thread |
| DA | Connector Class | DA | with waterproof O-ring (IP67***) | LC | Contact Termination | LC | Less contacts |
| RA | | 98 | Plug Connector with 90° elbow with grounding finger | - | Contact Plating | - | Silver plating |
| 24-10 | Insert Arrangement | T | With plastic caps | F26 | Shell finish | CD5 | Gold plating |
| | | | | F16 | CCF - Black passivation (*) - conductive | | |
| | | | | F26 | hard anodization (*) | | |
| | | N | Modification Code** | N | Consult our sales office | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBS 08DAT 24-10SX M20 LC F26 N

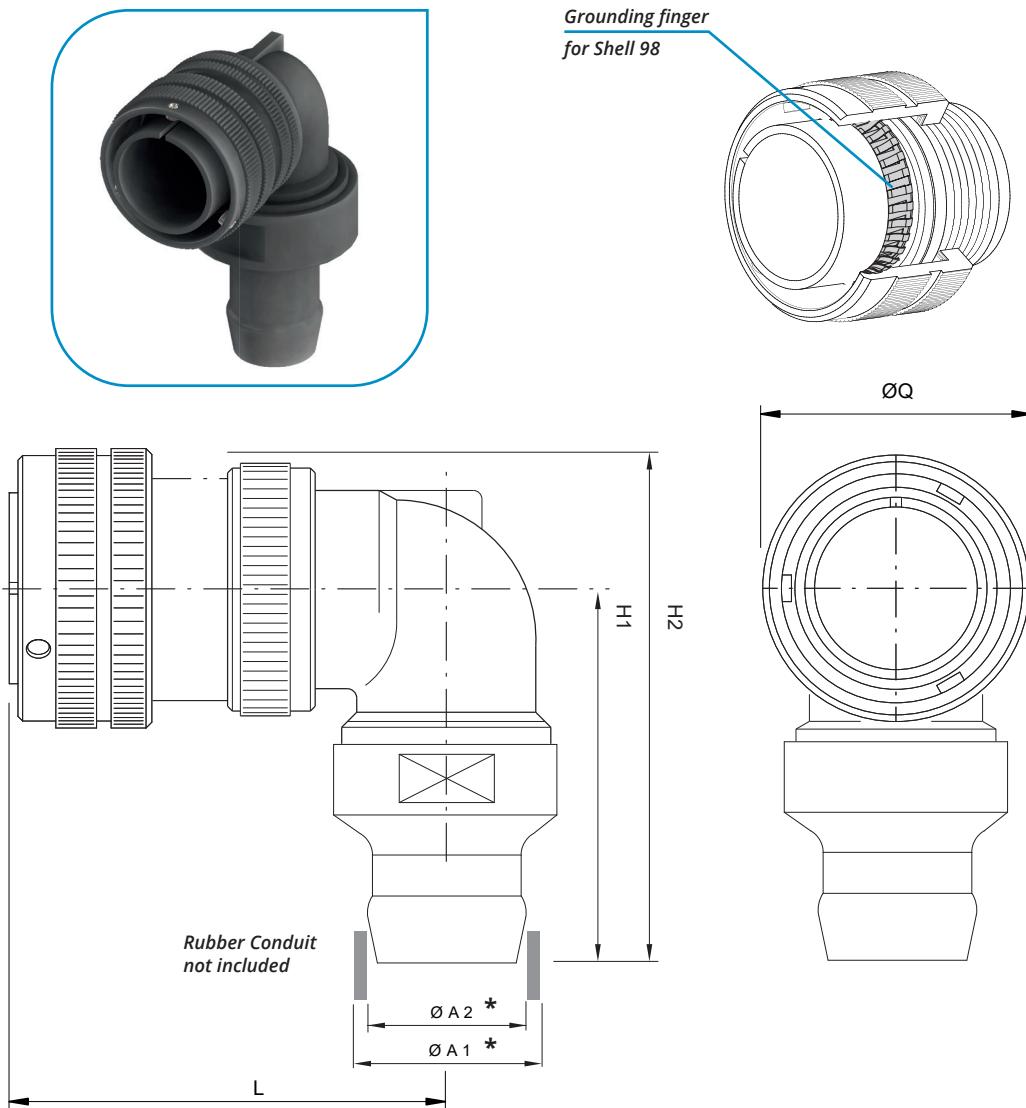
(#) In some sizes the grommet cone is not needed

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (08/98) with 90° Elbow Class (DA..FS - RA..FS)

Connector with special adapter for UNI4883 rubber conduits.

Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: KVBS 06DA...FS5040...).



Please consult our Sales Office for further details about this dimension and according to conduit size.

| Shell size | ØQ ±0.2 | L max | H1 max | H2 max |
|------------|---------|-------|--------|--------|
| 18 | 37 | 75 | * | * |
| 20 | 41 | 80 | * | * |
| 22 | 43 | 80 | * | * |
| 24 | 48 | 80 | * | * |
| 28 | 53 | 80 | * | * |
| 36 | 66.2 | 90 | * | * |
| 40 | 72.4 | 95 | * | * |

* On request (please consult our Sales Office)

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|-------------|------------------------|-----|-----|
| 16-18-20 | FS2015 | 20 | 15 |
| 20-22-24-28 | FS2520 | 25 | 20 |
| 18-20-22-24 | FS2722 | 27 | 22 |
| 20-22-24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3530 | 35 | 30 |
| 28-36 | FS4035 | 40 | 35 |
| 28-40 | FS4540 | 45 | 40 |
| 40 | FS5040 | 50 | 40 |
| 36-40 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |
| 40 | FS5945 | 59 | 45 |

KVBS - Bayonet Connector with protected mating ramps

| | | | | | | | | | | | | | | | | | | | | |
|--------------------------|------|--------------------------|----|----|--------------------------|---|-------|--------------------------|---|--------------------------|---|--------------------------|----|------|--------------------------|----|--------------------------|-----|--------------------------|---|
| <input type="checkbox"/> | KVBS | <input type="checkbox"/> | 08 | DA | <input type="checkbox"/> | T | 24-10 | <input type="checkbox"/> | S | <input type="checkbox"/> | X | <input type="checkbox"/> | FS | 3328 | <input type="checkbox"/> | LC | <input type="checkbox"/> | F26 | <input type="checkbox"/> | N |
|--------------------------|------|--------------------------|----|----|--------------------------|---|-------|--------------------------|---|--------------------------|---|--------------------------|----|------|--------------------------|----|--------------------------|-----|--------------------------|---|

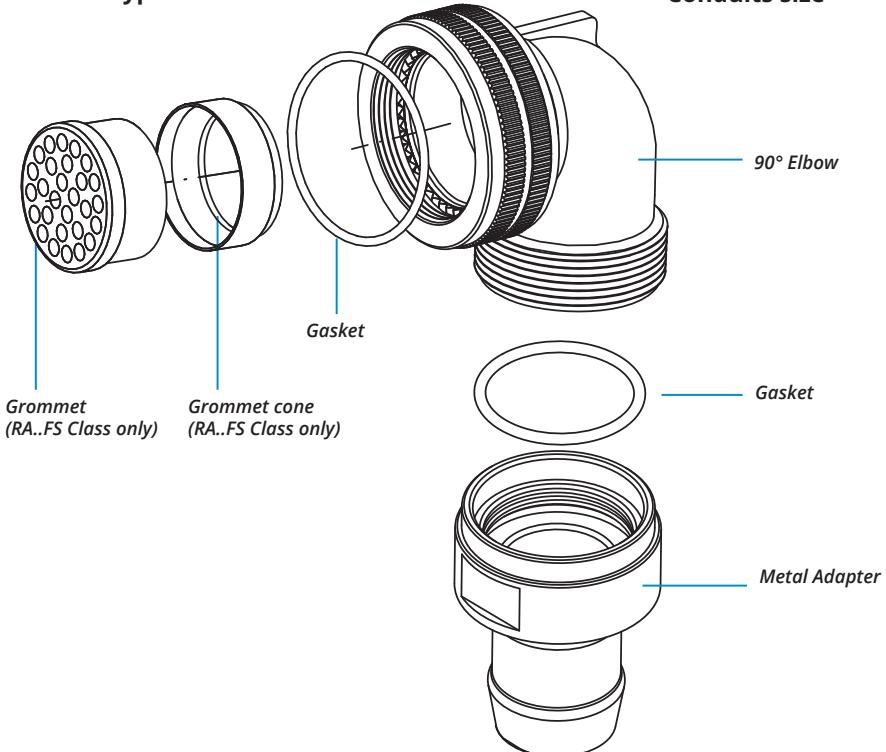
Series
Code

Shell
Type

Connector
Class

Backshell
Conduits size

Shell
finish



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | | |
|--------------------------|------------------------|-----------------------------|--|--|----------------------------|------------------------|---|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> | Contact Gender | S | Socket contacts | |
| <input type="checkbox"/> | KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | <input type="checkbox"/> | P | Pin contacts | |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> | Polarization Code** | | Page 14 | |
| <input type="checkbox"/> | 08 | 08 | Plug Connector with 90° elbow without grounding finger | <input type="checkbox"/> | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits | |
| | | 98 | Plug Connector with 90° elbow with grounding finger | <input type="checkbox"/> | Conduit Size | xxxx | ØA1ØA2 | |
| <input type="checkbox"/> | DA | Connector Class | DA | with waterproof O-ring (IP67***) | <input type="checkbox"/> | LC | Less contacts | |
| | | | RA | with waterproof O-ring and grommet (IP67***) # | <input type="checkbox"/> | Contact Termination | LC | Less contacts |
| <input type="checkbox"/> | T | Connector Modification** | T | With plastic caps | <input type="checkbox"/> | Contact Plating | - | Silver plating |
| | | | | | <input type="checkbox"/> | CD5 | | Gold plating |
| <input type="checkbox"/> | 24-10 | Insert Arrangement | T | With plastic caps | <input type="checkbox"/> | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | | | | | <input type="checkbox"/> | | F26 | hard anodization (*) |
| <input type="checkbox"/> | N | Modification Code** | N | Consult our sales office | <input type="checkbox"/> | | | |
| | | | | | <input type="checkbox"/> | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBS 08DAT 24-10SX FS3328 LC F26 N

(#) In some sizes the grommet cone is not needed

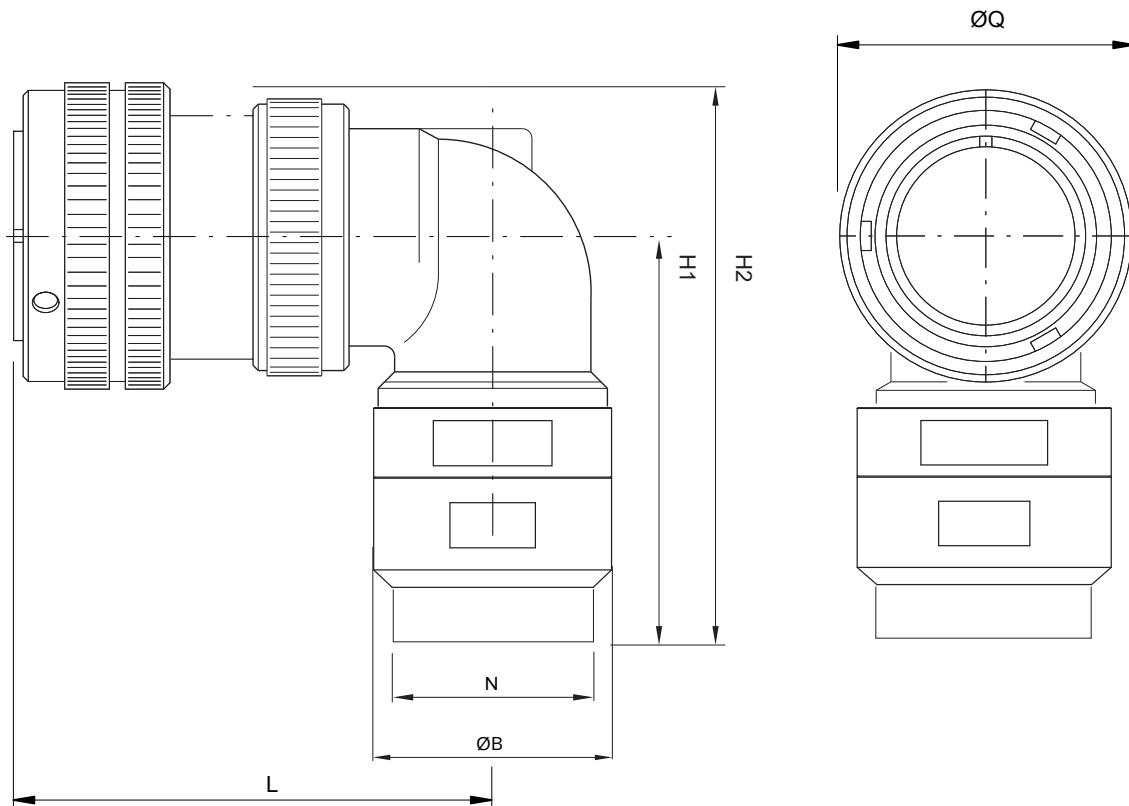
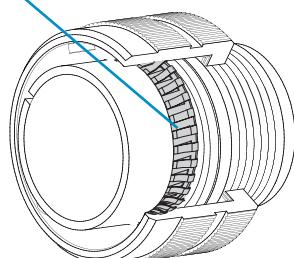
KVBS - Bayonet Connector with protected mating ramps

Plug Connector (08/98) with 90° Elbow Class (AST - ST)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an external unef thread.



Grounding finger
for Shell 98



| Shell size | ØQ | ØB ±0.2 | L | H1 | H2 | N Backshell Thread in inches | Cable Range | | |
|------------|------|---------|----|----|----|------------------------------|-------------|-------|-------|
| | | | | | | | ST | ST1 | ST2 |
| 18 | 37 | 30 | 79 | * | * | 1"-20 UNEF | 14-9 | 9-4 | * |
| 20 | 41 | 32 | 84 | * | * | 1" 3/16-18 UNEF | 19-14 | 14-9 | * |
| 22 | 43 | 38 | 84 | * | * | 1" 3/16-18 UNEF | 19-14 | 14-9 | * |
| 24 | 48 | 45 | 84 | * | * | 1" 7/16-18 UNEF | 23-18 | 18-13 | * |
| 28 | 53 | 48 | 84 | * | * | 1" 7/16-18 UNEF | 23-18 | 18-13 | * |
| 36 | 66.2 | 58 | 94 | * | * | 2"-18 UNS | 33-25 | 25-18 | * |
| 40 | 72.4 | 65 | 99 | * | * | 2"1/4-16 UN | 39-31 | 31-24 | 24-16 |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps

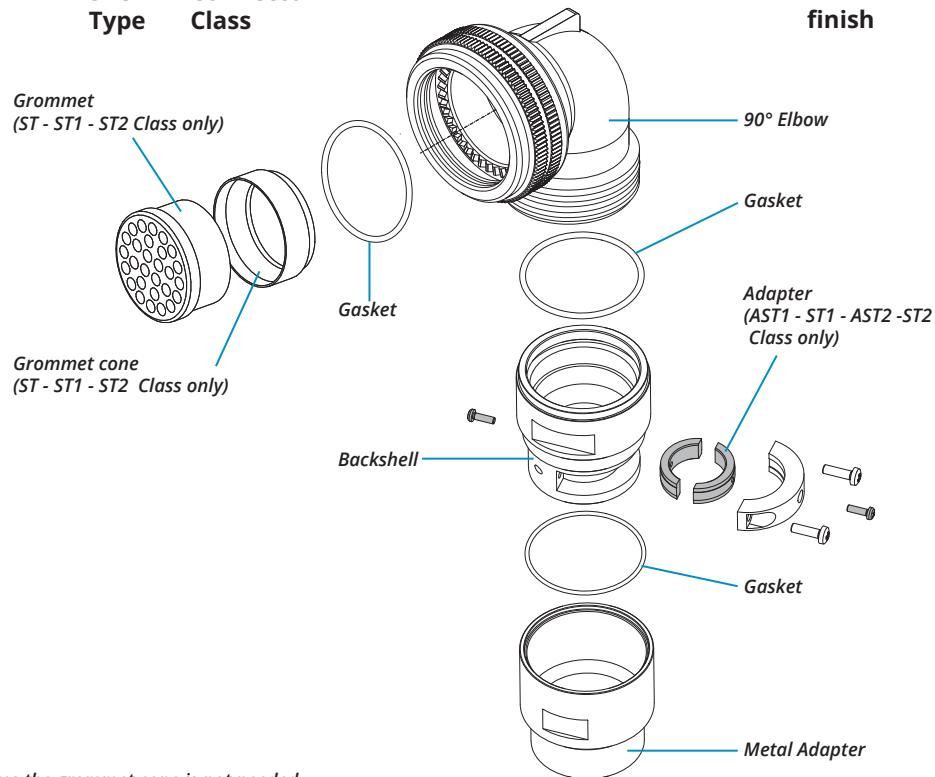


Series Code

Shell Type

Connector Class

Shell finish



(#) In some sizes the grommet cone is not needed

| | | | | |
|--------------------------|---------------------------------|-------------|--|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | |
| <input type="checkbox"/> | Shell Material | - | Aluminum | |
| 08 | Shell Type | 08 | Plug Connector with 90° elbow without grounding finger | |
| | | 98 | Plug Connector with 90° elbow with grounding finger | |
| | | AST | with waterproof O-ring (IP67***) | |
| | | ST | with waterproof O-ring and grommet (IP67***) | |
| | | AST1 | with waterproof O-ring (IP67***) | |
| | | ST1 | with waterproof O-ring and grommet (IP67***) | |
| | | AST2 | with waterproof O-ring (IP67***) | |
| | | ST2 | with waterproof O-ring and grommet (IP67***) | |
| ST | Connector Class | | | |
| T | Connector Modification** | T | With plastic caps | |
| 24-10 | Insert Arrangement | | Page 14 | |
| S | Contact Gender | S | Socket contacts | |
| | | P | Pin contacts | |
| X | Polarization Code** | | Page 14 | |
| LC | Contact Termination | LC | Less contacts | |
| - | Contact Plating | - | Silver plating | |
| | | CD5 | Gold plating | |
| F26 | Shell finish | F16 | CCF - Black passivation (*) conductive | |
| | | F26 | hard anodization (*) | |
| N | Modification Code** | N | Consult our sales office | |
| | | S | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529

P/N Sample: KVBS 08STT 24-10SX LC F26 N

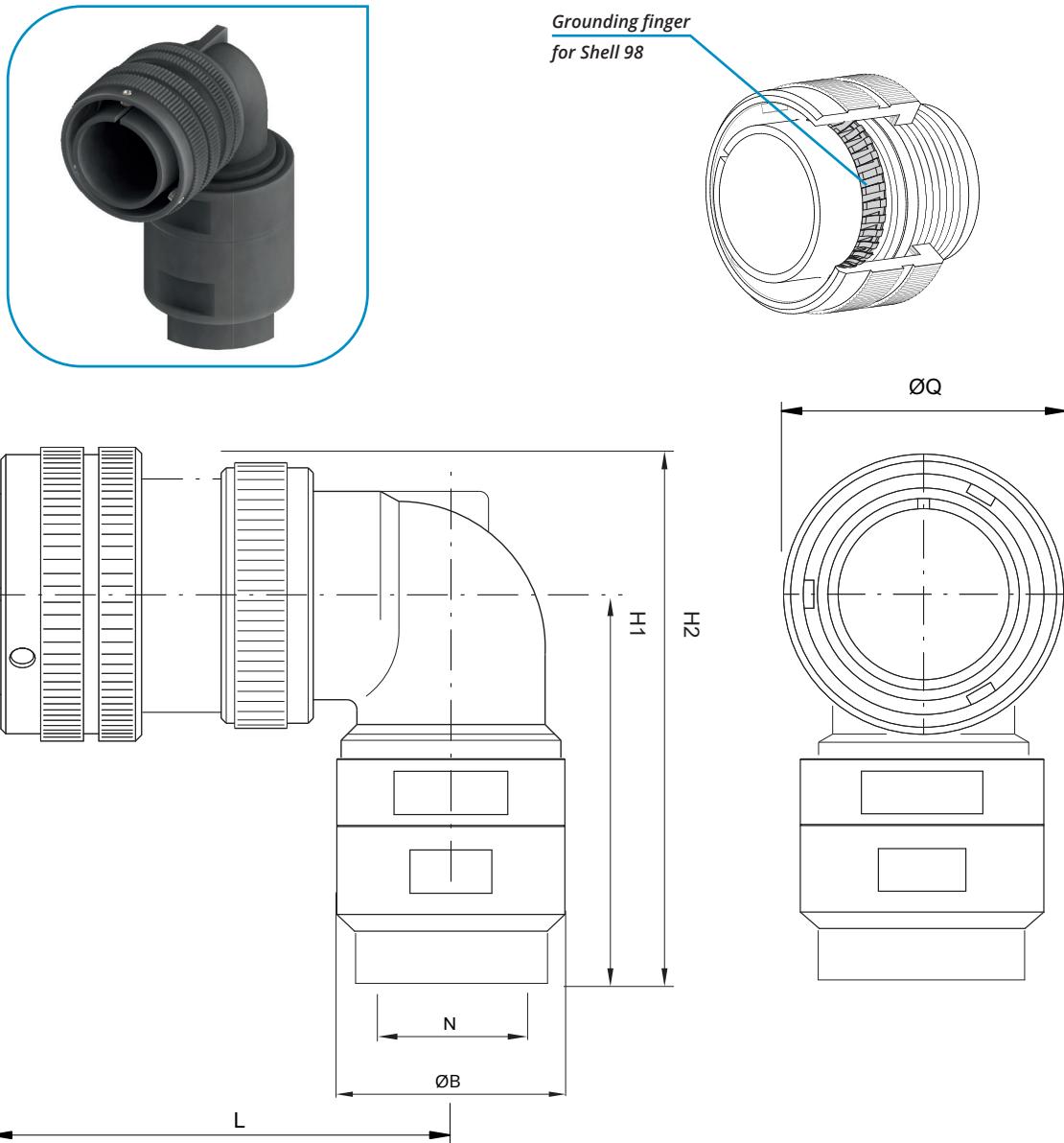
(*) RoHS compliance (**) If required

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (08/98) with 90° Elbow Class (AST..M - ST..M)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an internal Metric thread

SHELL



| Shell size | ØQ | ØB ±0.2 | L | H1 | H2 | N Backshell Thread Metric | Cable Range | ST | ST1 | ST2 |
|------------|------|------------|----|----|----|---------------------------|-------------|-------|-------|-----|
| 18 | 37 | 30 | 79 | * | * | M16 - M20 | 14-9 | 9-4 | * | |
| 20 | 41 | 32 | 84 | * | * | M20 | 19-14 | 14-9 | * | |
| 22 | 43 | 38 | 84 | * | * | M25 | 19-14 | 14-9 | * | |
| 24 | 48 | 45 | 84 | * | * | M25 | 23-18 | 18-13 | * | |
| 28 | 53 | 48 | 84 | * | * | M32 | 23-18 | 18-13 | * | |
| 36 | 66.2 | 58 | 94 | * | * | M32 - M40 | 33-25 | 25-18 | * | |
| 40 | 72.4 | 65 | 99 | * | * | M40 - M50 | 39-31 | 31-24 | 24-16 | |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code

Shell Type

Connector Class

Backshell internal thread

Shell finish

Insulating material

Thermoplastic resin

KVBS

Series Code

KVBS

Bayonet Connector with protected mating ramps

Shell Material

Aluminum

08

Shell Type

08
Plug Connector with 90° elbow without grounding finger

98
Plug Connector with 90° elbow with grounding finger

AST
with waterproof O-ring (IP67***)

ST
with waterproof O-ring and grommet (IP67***)

AST1
with waterproof O-ring (IP67***)

ST1
with waterproof O-ring and grommet (IP67***)

AST2
with waterproof O-ring (IP67***)

ST2
with waterproof O-ring and grommet (IP67***)

ST

Connector Class

With plastic caps

T

Connector Modification**

T

24-10

Insert Arrangement

Page 14

S

Contact Gender

S

Socket contacts

P

Pin contacts

X

Polarization Code**

Page 14

M20

Backshell internal thread

Mxx

Provided with an internal Metric thread

LC

Contact Termination

LC

Less contacts

-

Contact Plating

-

Silver plating

CD5

Gold plating

F26

Shell finish

F16

CCF - Black passivation (*) conductive

F26

hard anodization (*)

N

Modification Code**

S

Consult our sales office

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529

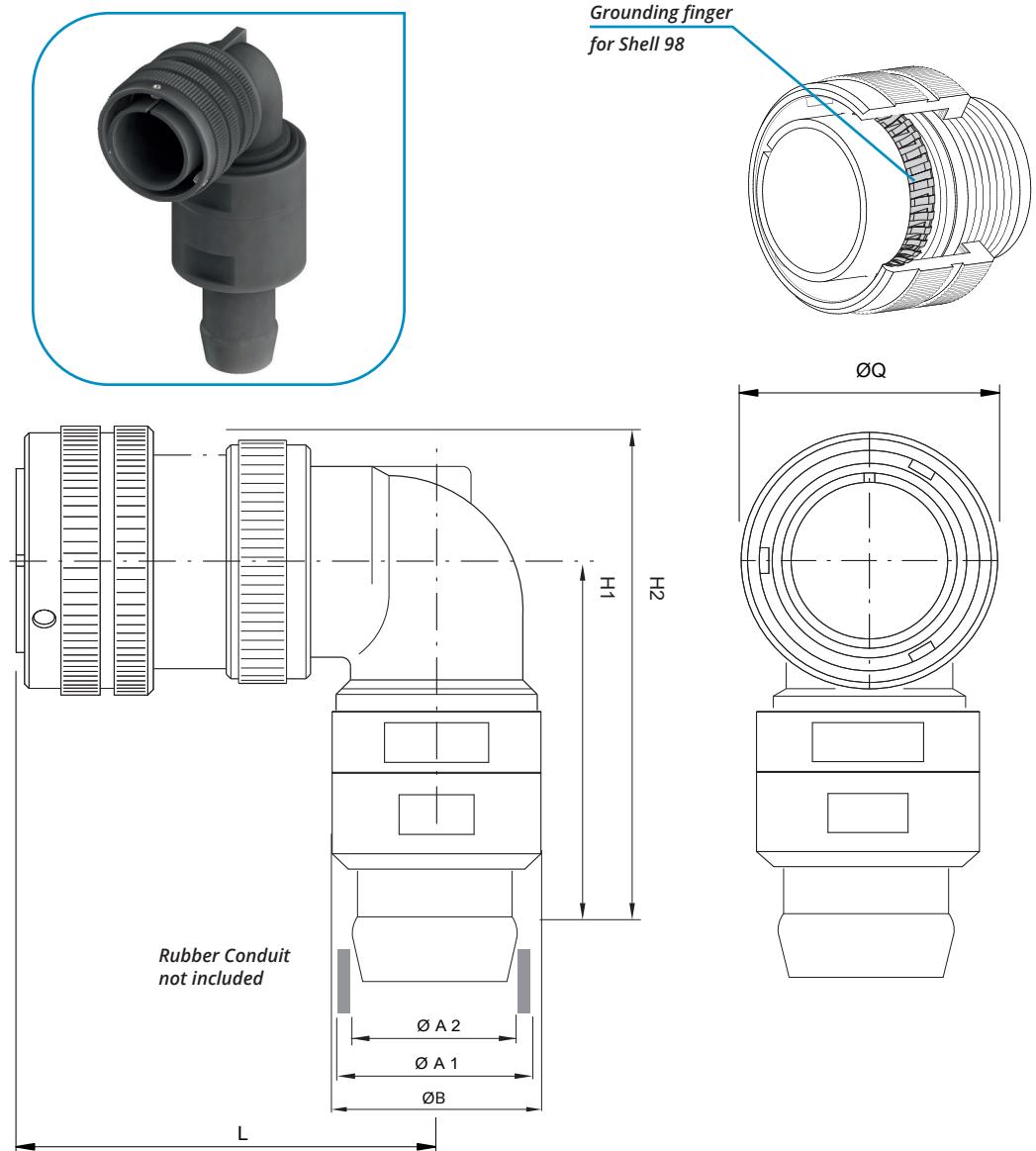
P/N Sample: KVBS 08STT 24-10SX M20 LC F26 N

(*) RoHS compliance (**) If required

KVBS - Bayonet Connector with protected mating ramps

Plug Connector (08/98) with 90° Elbow Class (AST..FS - ST..FS)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with a special adapter for UNI4883 rubber conduits



| Shell size | ØQ | ØB ±0.2 | L | H1 | H2 | Cable Range | | |
|------------|------|------------|----|----|----|-------------|-------|-------|
| | | | | | | ST | ST1 | ST2 |
| 18 | 37 | 30 | 79 | * | * | 14-9 | 9-4 | * |
| 20 | 41 | 32 | 84 | * | * | 19-14 | 14-9 | * |
| 22 | 43 | 38 | 84 | * | * | 19-14 | 14-9 | * |
| 24 | 48 | 45 | 84 | * | * | 23-18 | 18-13 | * |
| 28 | 53 | 48 | 84 | * | * | 23-18 | 18-13 | * |
| 36 | 66.2 | 58 | 94 | * | * | 33-25 | 25-18 | * |
| 40 | 72.4 | 65 | 99 | * | * | 39-31 | 31-24 | 24-16 |

| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|------------|------------------------|-----|-----|
| 24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3833 | 38 | 33 |
| 36 | FS4035 | 40 | 35 |
| 40 | FS5040 | 50 | 40 |
| 36 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |

Please consult our Sales Office for further details about this dimension and according to conduit size.

Dimensions in mm

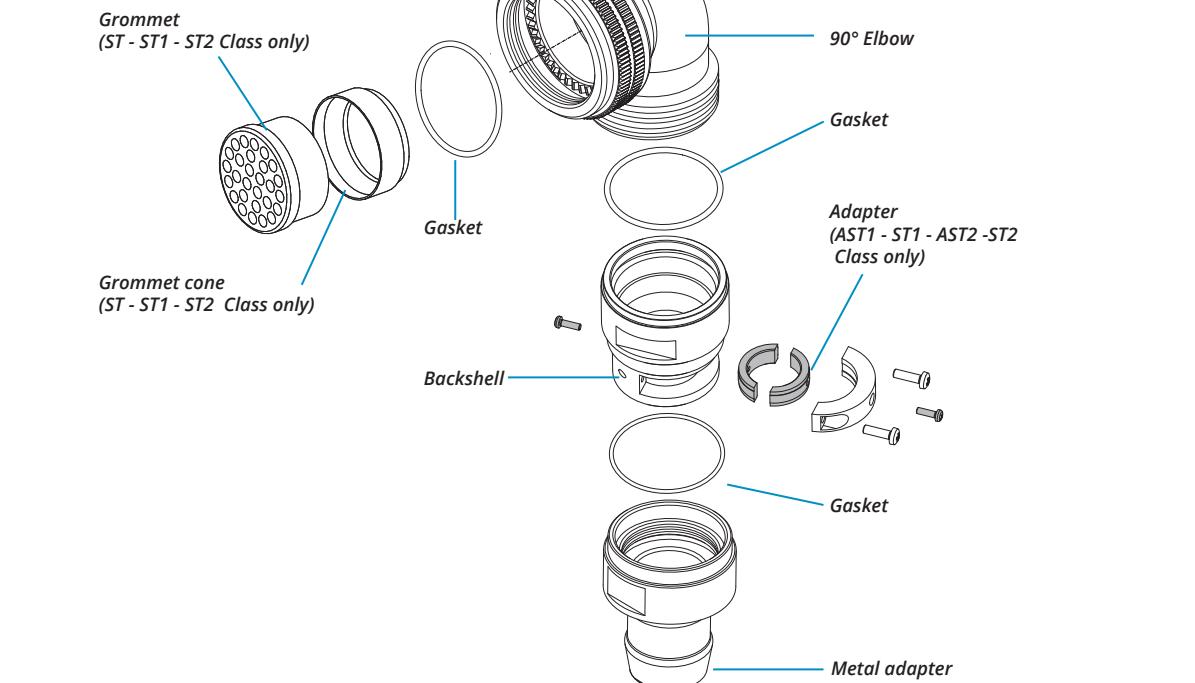
Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

* On request (please consult our Sales Office)

KVBS - Bayonet Connector with protected mating ramps



Series Code Shell Type Connector Class Backshell Conduits size Shell finish



| | | | | | | | |
|---|--------------------------|------|--|-------------------------------|-------------------------|-------------------------------|---|
| <input type="checkbox"/> KVBS | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> S | Contact Gender | <input type="checkbox"/> S | Socket contacts |
| <input type="checkbox"/> KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | <input type="checkbox"/> P | Pin contacts | | |
| <input type="checkbox"/> 08 | Shell Type | - | Aluminum | <input type="checkbox"/> X | Polarization Code** | | Page 14 |
| <input type="checkbox"/> 08 | Shell Type | 08 | Plug Connector with 90° elbow without grounding finger | <input type="checkbox"/> FS | Backshell Conduits size | <input type="checkbox"/> FS | Provided with a special adapter for UNI4883 rubber conduits |
| <input type="checkbox"/> 98 | | 98 | Plug Connector with 90° elbow with grounding finger | <input type="checkbox"/> XXXX | Conduit Size | <input type="checkbox"/> XXXX | ØA1ØA2 |
| <input type="checkbox"/> ST | Connector Class | AST | with waterproof O-ring (IP67***) | <input type="checkbox"/> LC | Contact Termination | <input type="checkbox"/> LC | Less contacts |
| <input type="checkbox"/> ST | | ST | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> - | Contact Plating | <input type="checkbox"/> - | Silver plating |
| <input type="checkbox"/> ST | | AST1 | with waterproof O-ring (IP67***) | <input type="checkbox"/> CD5 | | <input type="checkbox"/> CD5 | Gold plating |
| <input type="checkbox"/> ST | | ST1 | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> F26 | Shell finish | <input type="checkbox"/> F16 | CCF - Black passivation (*) conductive |
| <input type="checkbox"/> ST | | AST2 | with waterproof O-ring (IP67***) | | | <input type="checkbox"/> F26 | hard anodization (*) |
| <input type="checkbox"/> ST | | ST2 | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> N | Modification Code** | <input type="checkbox"/> N | Consult our sales office |
| <input type="checkbox"/> T | Connector Modification** | T | With plastic caps | | | <input type="checkbox"/> S | |
| <input type="checkbox"/> 24-10 | Insert Arrangement | | | | | | |
| | | | | | | | |
| (**) In some sizes the grommet cone is not needed | | | | | | | |
| 24-10SX FS5040 LC F26 N | | | | | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529

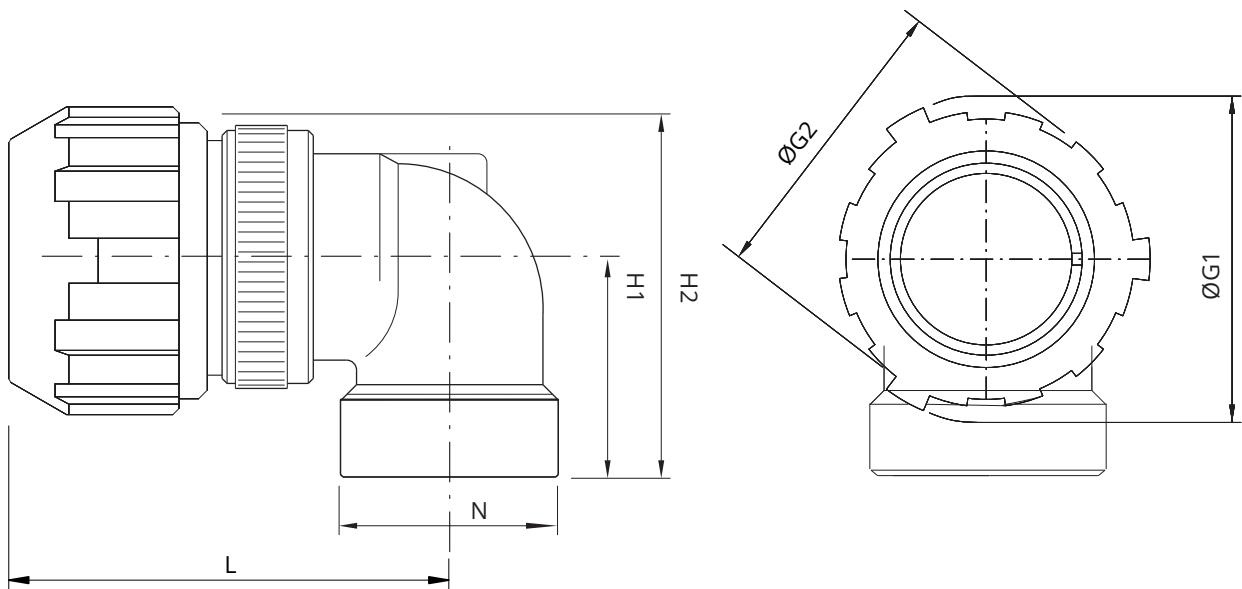
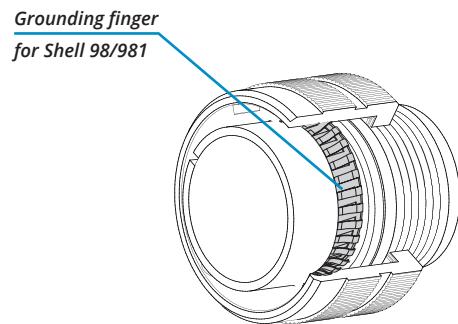
(*) RoHS compliance (**) If required

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (08..GG - 81..GG - 98..GG - 981..GG) with 90° Elbow Class (A - DA - RA)

Connector with 90° elbow provided with an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately). Rubber covered coupling nut able to protect against dust and impact.

SHELL



| Shell size | ØG1 | ØG2 | L max | H1 max | H2 max | N Backshell Thread in inches |
|------------|------|------|----------|-----------|-----------|------------------------------------|
| 18 | 49 | 43.5 | 79 | 31 | 55.5 | 1"-20 UNEF |
| 20 | 51.5 | 46 | 84 | 33 | 58.8 | 1" 3/16-18 UNEF |
| 22 | 56 | 50.5 | 84 | 35 | 63 | 1" 3/16-18 UNEF |
| 24 | 60 | 54 | 84 | 38 | 68 | 1" 7/16-18 UNEF |
| 28 | 67 | 61 | 84 | 40 | 73.5 | 1" 7/16-18 UNEF |
| 36 | 82 | 73.5 | 94 | 49 | 90 | 2"-18 UNS |
| 40 | 88 | 80 | 99 | 53 | 97 | 2"1/4-16 UN |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series
Code

08

DA

GG

T

24-10

S

X

LC

-

F26

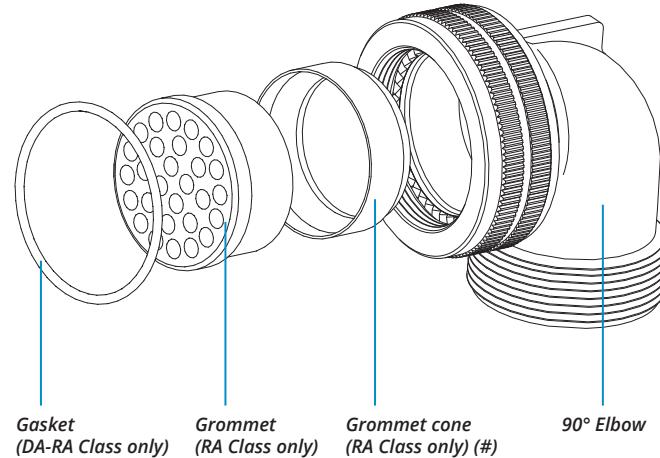
N

Shell
Type

Connector
Class

Shell
finish

SHELL



| | | | | | | | |
|--------------------------|---------------------|-------------|---|--------------|--------------------------|------------|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | GG | Coupling Nut Type | GG | Rubber Covered |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | T | Connector Modification** | T | With plastic caps |
| <input type="checkbox"/> | Shell Material | - | Aluminum | 24-10 | Insert Arrangement | | Page 14 |
| | | 08 | Plug Connector with 90° elbow without grounding finger | S | Contact Gender | S | Socket contacts |
| | | 98 | Plug Connector with 90° elbow with grounding finger | P | | | Pin contacts |
| 08 | Shell Type | 81 | Plug Connector with 90° elbow without grounding finger Rubber covered coupling nut (short version) | X | Polarization Code** | | Page 14 |
| | | 981 | Plug Connector with 90° elbow Rubber covered coupling nut (short version) with grounding finger | LC | Contact Termination | LC | Less contacts |
| | | | | - | Contact Plating | - | Silver plating |
| | | | | | | CD5 | Gold plating |
| DA | Connector Class | A | non watertight | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | | DA | with waterproof O-ring (IP67***) | | | F26 | hard anodization (*) |
| | | RA | with waterproof O-ring and grommet (IP67***) | N | Modification Code** | N | Consult our sales office |
| | | | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

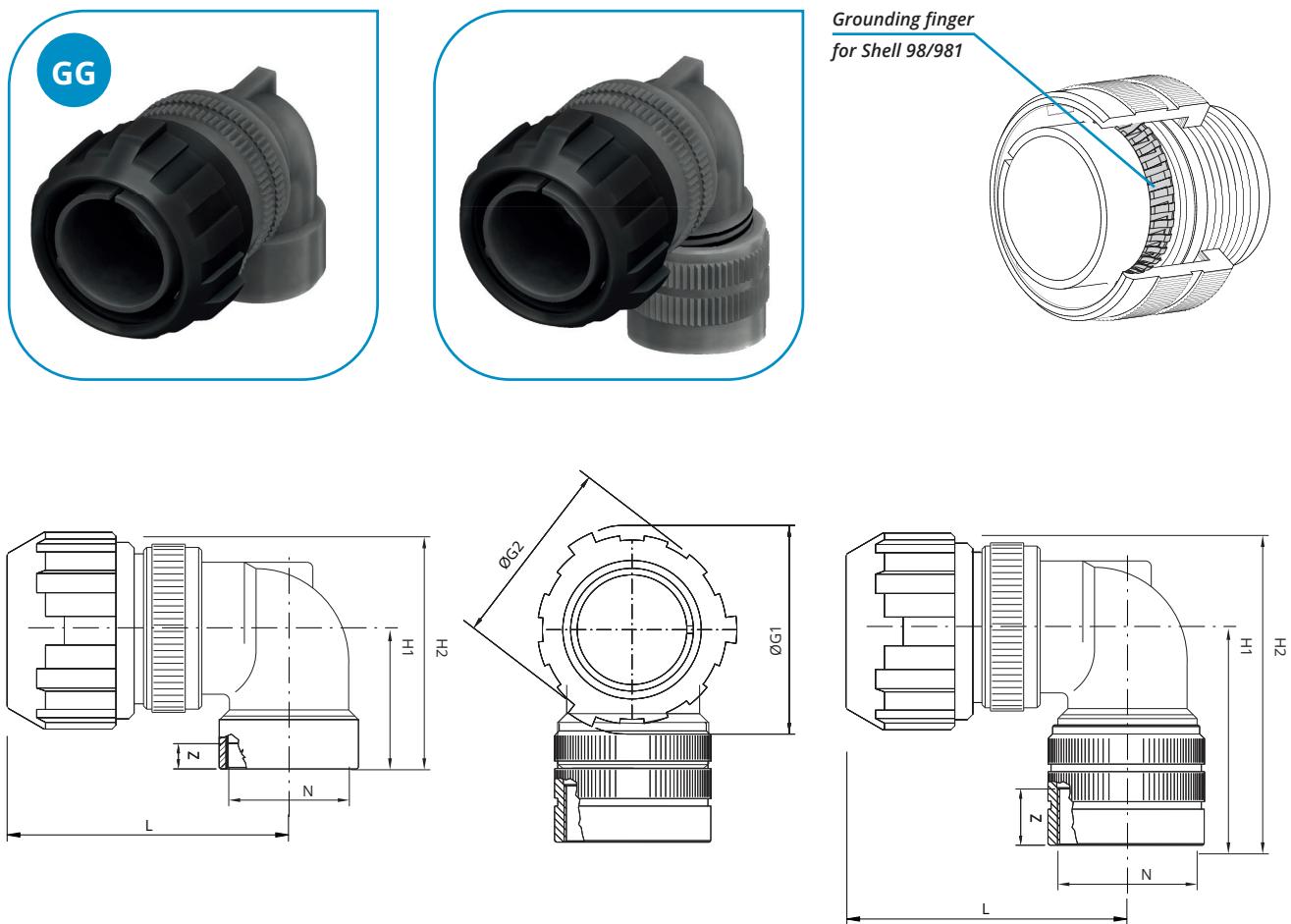
P/N Sample: KVBS 08DAGGT 24-10SX LC F26 N

(#) In some sizes the grommet cone is not needed

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (08..GG - 81..GG - 98..GG - 981..GG) with 90° Elbow Class (DA...M - RA...M)

Connector with 90° elbow provided with an internal Metric thread suitable for cable glands or conduit adapters.



Some version can be supplied with internal threading without adaptor.
Some version can be supplied with adaptor.

| Shell size | Without adapter | | | | | | | With adapter | | | |
|------------|-----------------|------|-------|-------|--------|--------|--------------------|--------------|--------|--------|-------------|
| | ØG1 | ØG2 | L max | Z min | H1 max | H2 max | N Backshell Thread | Z min | H1 max | H2 max | N Thread |
| 18 | 49 | 43.5 | 61.5 | 7.5 | 31 | 55.5 | M20 | 12 | 60 | 84.5 | M25 |
| 20 | 51.5 | 46 | 63.5 | 9 | 33 | 58.8 | M25 | 12 | 62 | 87.8 | M16-M20 |
| 22 | 56 | 50.5 | 65.5 | 7.5 | 35 | 63 | M25 | 12 | 65 | 93 | M32-M40 |
| 24 | 60 | 54 | 69 | 11 | 38 | 68 | M32 | 15 | 69 | 99 | M25-M40 |
| 28 | 67 | 61 | 69 | 10.7 | 40 | 73.5 | M32 | 15 | 72 | 105.5 | M40 |
| 36 | 82 | 73.5 | 77.5 | 13 | 49 | 90 | - | 15 | 81 | 122 | M32-M40 |
| 40 | 88 | 80 | 82.5 | 12.3 | 53 | 97 | - | 15 | 85 | 129 | M32-M40-M50 |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code

Shell Type

Connector Class

Backshell internal thread

Shell finish

KVBS

08

DA

GG

T

24-10

S

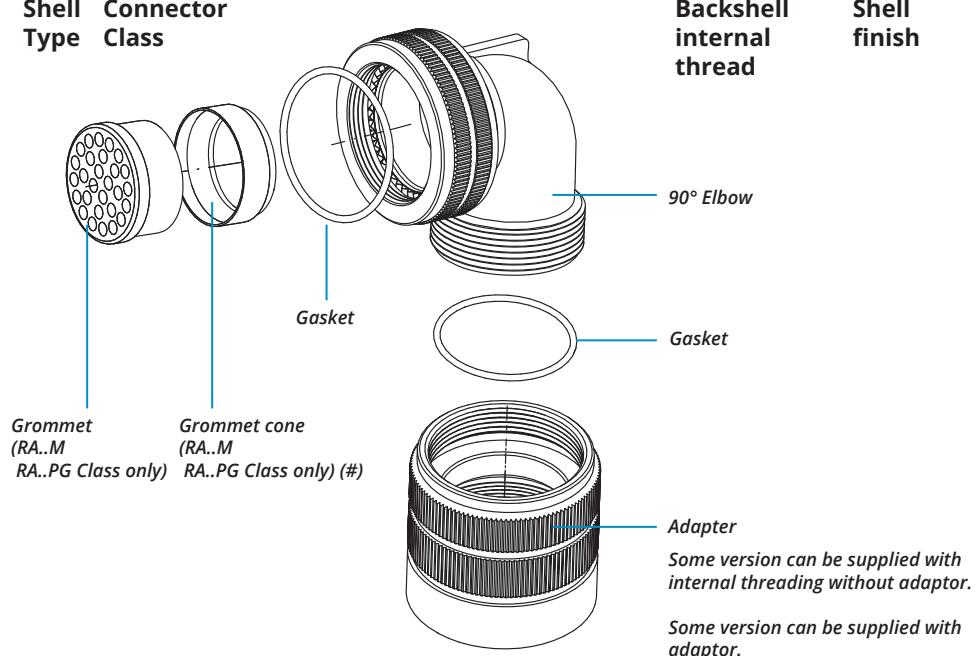
X

M20

LC

F26

N



| | | | | | | | |
|--|---------------------|------|---|--|---------------------------|--|--|
| | Insulating material | - | Thermoplastic resin | | Connector Modification** | | With plastic caps |
| | Series Code | KVBS | Bayonet Connector with protected mating ramps | | Insert Arrangement | | Page 14 |
| | Shell Material | - | Aluminum | | Contact Gender | | Socket contacts |
| | | 08 | Plug Connector with 90° elbow without grounding finger | | Polarization Code** | | Page 14 |
| | | 98 | Plug Connector with 90° elbow with grounding finger | | Backshell internal thread | | Provided with an internal Metric thread |
| | Shell Type | 81 | Plug Connector with 90° elbow without grounding finger Rubber covered coupling nut (short version) | | Contact Termination | | Less contacts |
| | | 981 | Plug Connector with 90° elbow Rubber covered coupling nut (short version) with grounding finger | | Contact Plating | | Silver plating |
| | | | | | Shell finish | | CCF - Black passivation (*) - conductive |
| | | | | | | | hard anodization (*) |
| | Connector Class | DA | with waterproof O-ring (IP67***) | | Modification Code** | | Consult our sales office |
| | | RA | with waterproof O-ring and grommet (IP67***)# | | | | |
| | Coupling Nut Type | GG | Rubber Covered | | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBS 08DAGGT 24-10SX M20 LC F26 N

(#) In some sizes the grommet cone is not needed

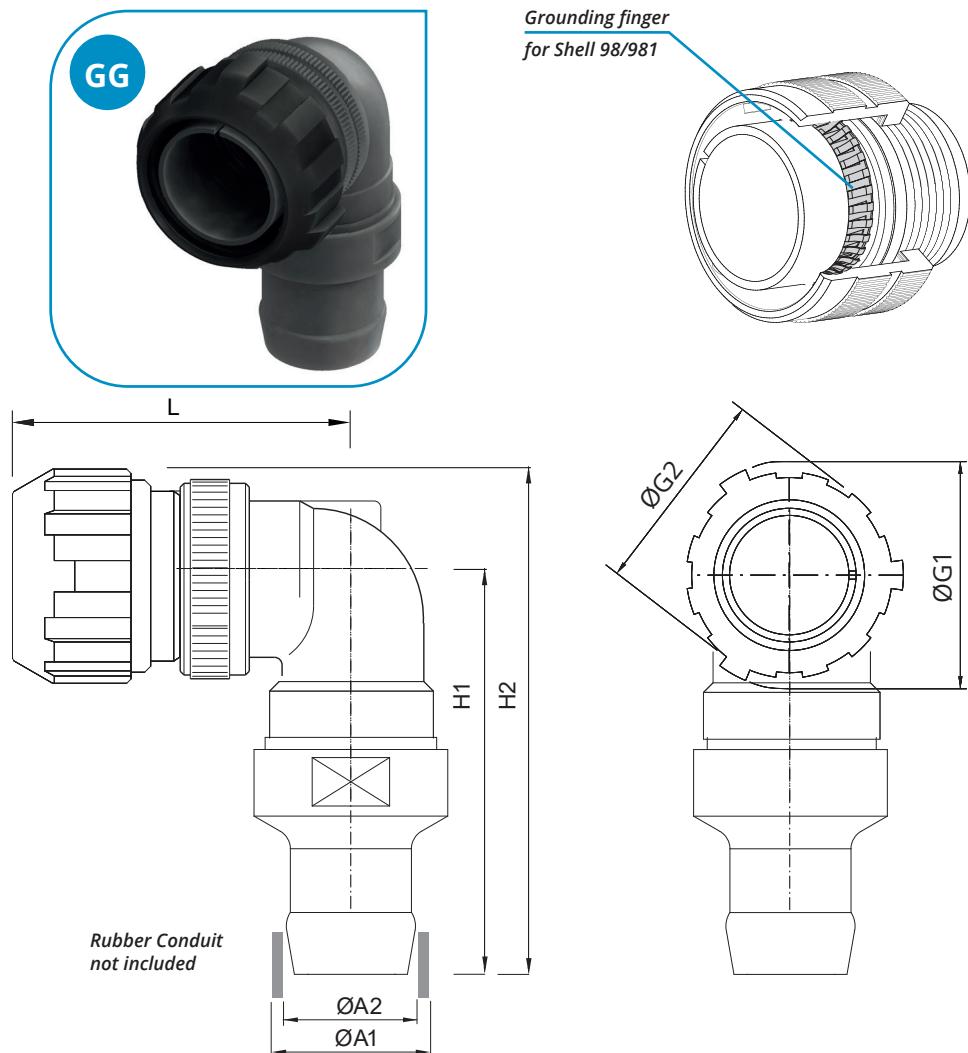
KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (08..GG - 81..GG - 98..GG - 981..GG) with 90° Elbow Class (DA..FS - RA..FS)

Connector with special adapter for UNI4883 rubber conduits.

Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: KVBS 08DA...FS5040...).

Rubber covered coupling nut able to protect against dust and impact.



Please consult our Sales Office for further details about this dimension and according to conduit size.

| Shell size | ØG1 | ØG2 | L max | H1 | H2 |
|------------|------|------|-------|----|-------|
| 18 | 49 | 43.5 | 68 | 85 | 109.5 |
| 20 | 51.5 | 46 | 71 | 85 | 110.8 |
| 22 | 56 | 50.5 | 71 | 85 | 113 |
| 24 | 60 | 54 | 76 | 85 | 115 |
| 28 | 67 | 61 | 76 | 85 | 118.5 |
| 36 | 82 | 73.5 | 84 | 90 | 131 |
| 40 | 88 | 80 | 88 | 95 | 139 |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|-------------|------------------------|-----|-----|
| 16-18-20 | FS2015 | 20 | 15 |
| 20-22-24-28 | FS2520 | 25 | 20 |
| 18-20-22-24 | FS2722 | 27 | 22 |
| 20-22-24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3530 | 35 | 30 |
| 28-36 | FS4035 | 40 | 35 |
| 28-40 | FS4540 | 45 | 40 |
| 40 | FS5040 | 50 | 40 |
| 36-40 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |
| 40 | FS5945 | 59 | 45 |

KVBS - Bayonet Connector with protected mating ramps

| | | | | | | | | | | | | | | |
|--------------------------|------|--------------------------|----|----|---|-------|---|---|----|------|----|-----|--------------------------|---|
| <input type="checkbox"/> | KVBS | <input type="checkbox"/> | 08 | DA | T | 24-10 | S | X | FS | xxxx | LC | F26 | <input type="checkbox"/> | N |
|--------------------------|------|--------------------------|----|----|---|-------|---|---|----|------|----|-----|--------------------------|---|

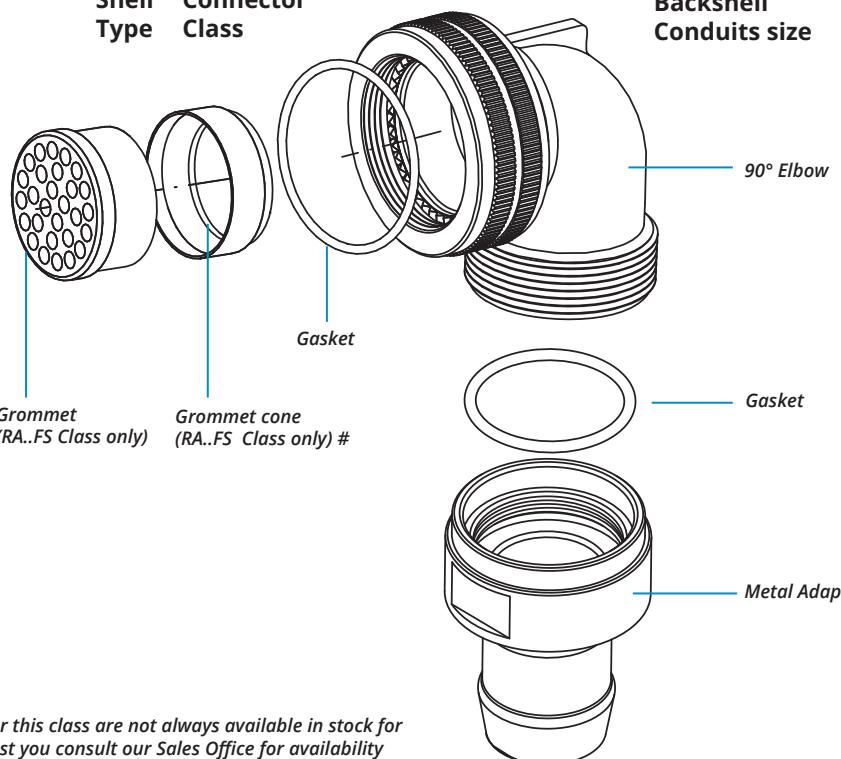
Series
Code

Shell
Type

Connector
Class

Backshell
Conduits size

Shell
finish



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | |
|--------------------------|-----------------------------|-------------|---|-------|------------------------------------|------|---|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | | Page 14 |
| KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps | S | Contact Gender | S | Socket contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | P | | P | Pin contacts |
| 08 | Shell Type | 08 | Plug Connector with 90° elbow without grounding finger | X | Polarization Code** | | Page 14 |
| 98 | | 98 | Plug Connector with 90° elbow with grounding finger | FS | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits |
| 81 | | 81 | Plug Connector with 90° elbow without grounding finger Rubber covered coupling nut (short version) | xxxx | Conduit Size | xxxx | ØA1ØA2 |
| 981 | | 981 | Plug Connector with 90° elbow Rubber covered coupling nut (short version) with grounding finger | LC | Contact Termination | LC | Less contacts |
| DA | Connector Class | DA | with waterproof O-ring (IP67***) | - | Contact Plating | - | Silver plating |
| RA | | RA | with waterproof O-ring and grommet (IP67***) # | CD5 | | CD5 | Gold plating |
| T | Connector Modification** | T | With plastic caps | F26 | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | | | | | | F26 | hard anodization (*) |
| N | | | | N | Modification Code** | N | Consult our sales office |
| | | | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

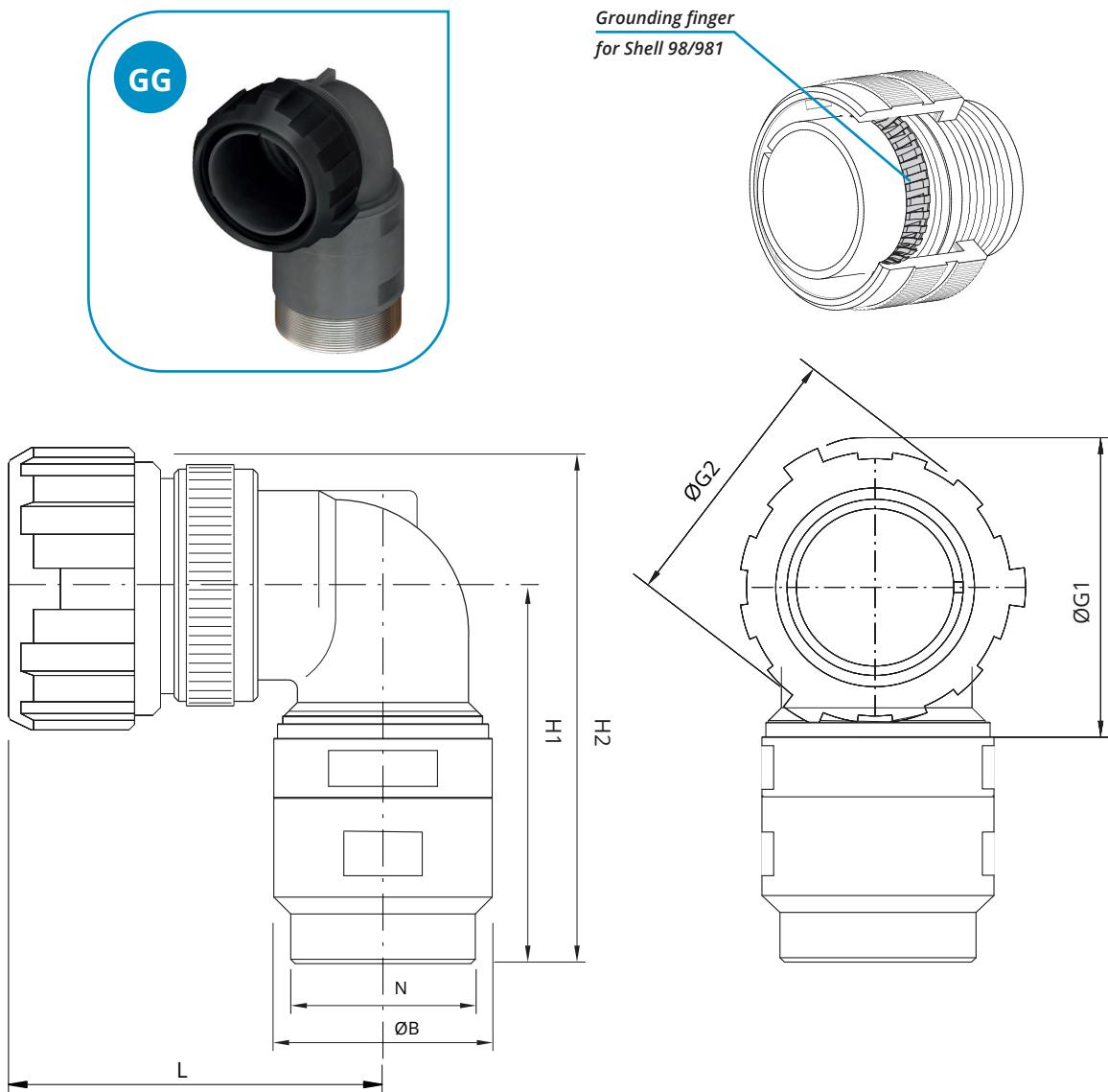
P/N Sample: KVBS 08DAT 24-10SX FS2015 LC F26 N

(#) In some sizes the grommet cone is not needed

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (08..GG - 81..GG - 98..GG - 981..GG) with 90° Elbow Class (AST - ST)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an external unef thread. Rubber covered coupling nut able to protect against dust and impact.



| Shell size | ØG1 | ØG1 | ØB ±0.2 | L | H1 | H2 | N Backshell Thread in inches | Cable Range | | |
|------------|------|------|------------|----|----|----|------------------------------------|-------------|-------|-------|
| | | | | | | | | ST | ST1 | ST2 |
| 18 | 49 | 43.5 | 30 | 79 | * | * | 1"-20 UNEF | 14-9 | 9-4 | * |
| 20 | 51.5 | 46 | 32 | 84 | * | * | 1" 3/16-18 UNEF | 19-14 | 14-9 | * |
| 22 | 56 | 50.5 | 38 | 84 | * | * | 1" 3/16-18 UNEF | 19-14 | 14-9 | * |
| 24 | 60 | 54 | 45 | 84 | * | * | 1" 7/16-18 UNEF | 23-18 | 18-13 | * |
| 28 | 67 | 61 | 48 | 84 | * | * | 1" 7/16-18 UNEF | 23-18 | 18-13 | * |
| 36 | 82 | 73.5 | 58 | 94 | * | * | 2"-18 UNS | 33-25 | 25-18 | * |
| 40 | 88 | 80 | 65 | 99 | * | * | 2"1/4-16 UN | 39-31 | 31-24 | 24-16 |

Dimensions in mm

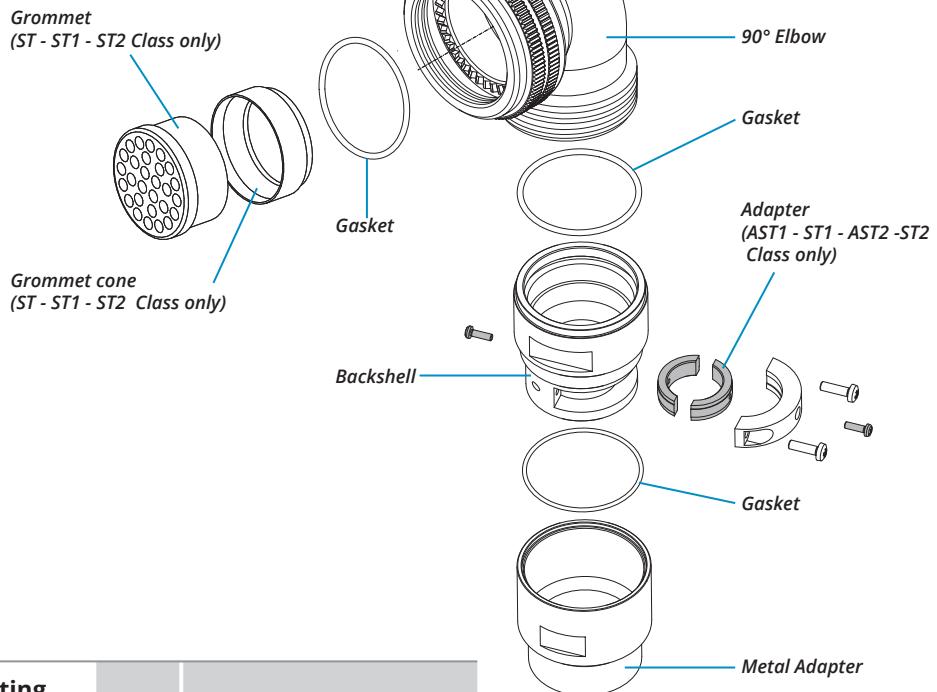
* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



Series Code Shell Type Connector Class Shell finish



| | | | |
|--------------------------|---------------------|---|---------------------|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin |
|--------------------------|---------------------|---|---------------------|

| | | | |
|-------------------------------|-------------|------|---|
| <input type="checkbox"/> KVBS | Series Code | KVBS | Bayonet Connector with protected mating ramps |
|-------------------------------|-------------|------|---|

| | | | |
|--------------------------|----------------|---|----------|
| <input type="checkbox"/> | Shell Material | - | Aluminum |
|--------------------------|----------------|---|----------|

| | | | |
|-----------------------------|------------|-----|--|
| <input type="checkbox"/> 08 | Shell Type | 08 | Plug Connector with 90° elbow without grounding finger |
| | | 98 | Plug Connector with 90° elbow with grounding finger |
| | | 81 | Plug Connector with 90° elbow without grounding finger Rubber covered coupling nut (short version) |
| | | 981 | Plug Connector with 90° elbow Rubber covered coupling nut (short version) with grounding finger |

| | | | |
|-----------------------------|-----------------|------|--|
| <input type="checkbox"/> ST | Connector Class | AST | with waterproof O-ring (IP67***) |
| | | ST | with waterproof O-ring and grommet (IP67***) |
| | | AST1 | with waterproof O-ring (IP67***) |
| | | ST1 | with waterproof O-ring and grommet (IP67***) |
| | | AST2 | with waterproof O-ring (IP67***) |
| | | ST2 | with waterproof O-ring and grommet (IP67***) |

| | | | |
|--------------------------------|--------------------------|-----|--|
| <input type="checkbox"/> T | Connector Modification** | T | With plastic caps |
| <input type="checkbox"/> GG | Coupling Nut Type | GG | Rubber Covered |
| <input type="checkbox"/> 24-10 | Insert Arrangement | | Page 14 |
| <input type="checkbox"/> S | Contact Gender | S | Socket contacts |
| | | P | Pin contacts |
| <input type="checkbox"/> X | Polarization Code** | | Page 14 |
| <input type="checkbox"/> LC | Contact Termination | LC | Less contacts |
| <input type="checkbox"/> - | Contact Plating | - | Silver plating |
| | | CD5 | Gold plating |
| <input type="checkbox"/> F26 | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | | F26 | hard anodization (*) |
| <input type="checkbox"/> N | Modification Code** | N | Consult our sales office |
| | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529

P/N Sample: KVBS 08STGGT 24-10SX LC F26 N

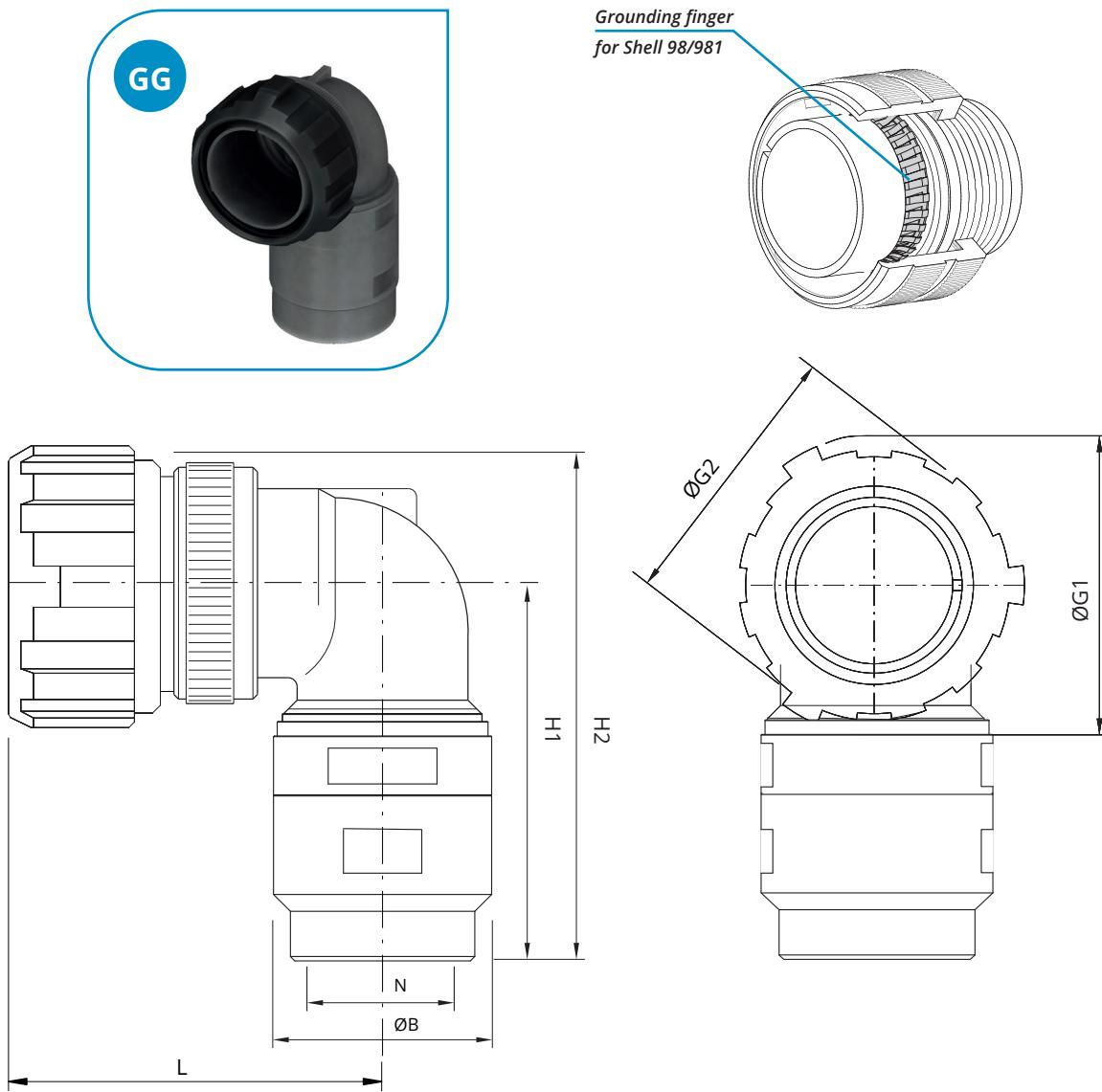
(#) In some sizes the grommet cone is not needed

(*) RoHS compliance (**) If required

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (08..GG - 81..GG - 98..GG - 981..GG) with 90° Elbow Class (AST..M - ST..M)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with an internal Metric thread. Rubber covered coupling nut able to protect against dust and impact.



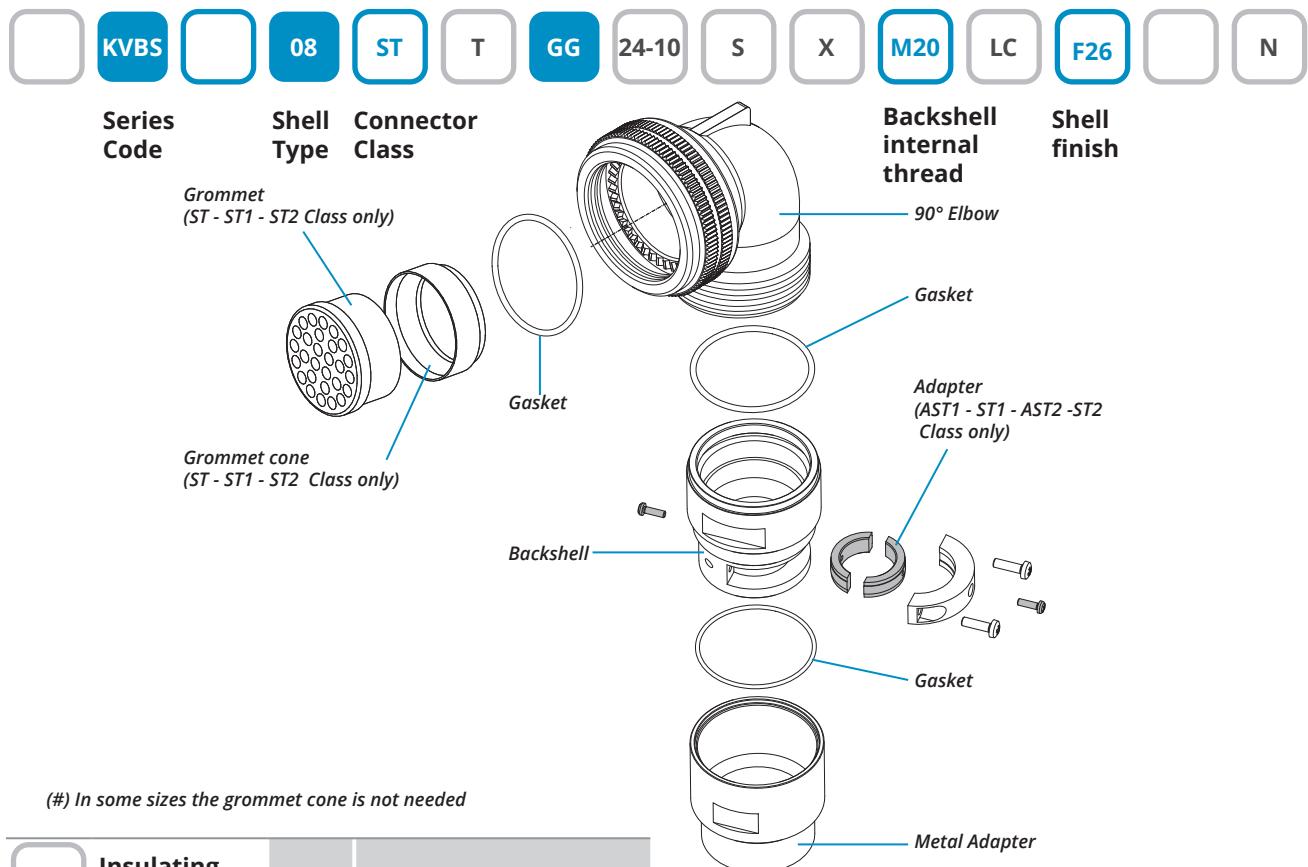
| Shell size | ØG1 | ØG1 | ØB ±0.2 | L | H1 | H2 | N Backshell Thread Metric | Cable Range | | |
|------------|------|------|------------|----|----|----|---------------------------------|-------------|-------|-------|
| | | | | | | | | ST | ST1 | ST2 |
| 18 | 49 | 43.5 | 30 | 79 | * | * | M16 - M20 | 14-9 | 9-4 | * |
| 20 | 51.5 | 46 | 32 | 84 | * | * | M20 | 19-14 | 14-9 | * |
| 22 | 56 | 50.5 | 38 | 84 | * | * | M25 | 19-14 | 14-9 | * |
| 24 | 60 | 54 | 45 | 84 | * | * | M25 | 23-18 | 18-13 | * |
| 28 | 67 | 61 | 48 | 84 | * | * | M32 | 23-18 | 18-13 | * |
| 36 | 82 | 73.5 | 58 | 94 | * | * | M32 - M40 | 33-25 | 25-18 | * |
| 40 | 88 | 80 | 65 | 99 | * | * | M40 - M50 | 39-31 | 31-24 | 24-16 |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBS - Bayonet Connector with protected mating ramps



(#) In some sizes the grommet cone is not needed

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529

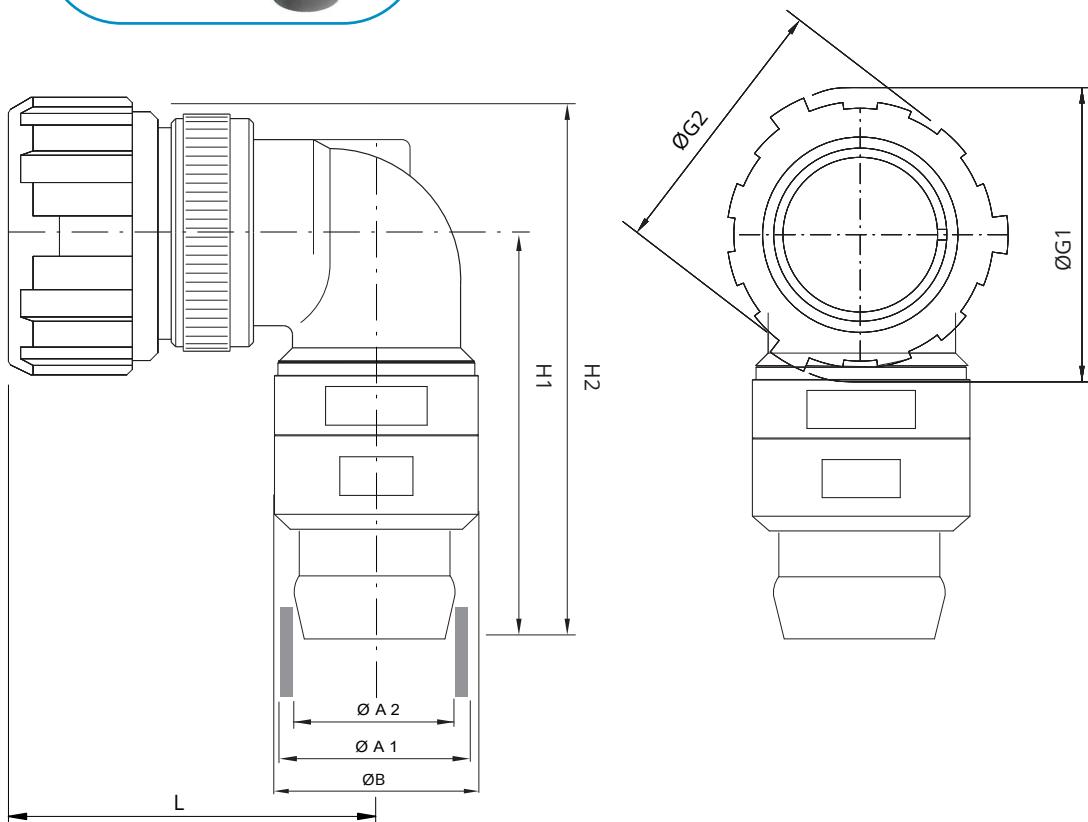
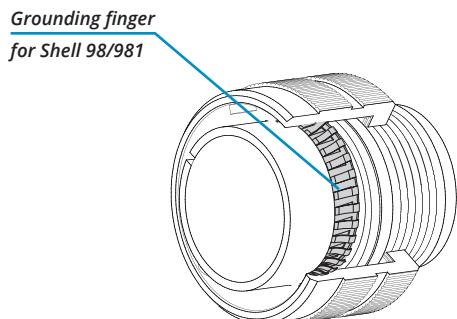
(*) RoHS compliance (**) If required

KVBS - Bayonet Connector with protected mating ramps

Plug Connector with rubber covered coupling nut (08..GG - 81..GG - 98..GG - 981..GG) with 90° Elbow Class (AST..FS - ST..FS)

Connector with backshell with internal cable retention system (on request ST1/ST2 with clamps for cable diameter reduction) with a special adapter for UNI4883 rubber conduits. Rubber covered coupling nut able to protect against dust and impact.

SHELL



| Shell size | ØG1 | ØG1 | ØB | L | H1 | H2 | Cable Range | ST | ST1 | ST2 |
|------------|------|------|------|----|----|----|-------------|-------|-------|-----|
| | | | ±0.2 | | | | ST | ST1 | ST2 | |
| 18 | 49 | 43.5 | 30 | 79 | * | * | 14-9 | 9-4 | * | |
| 20 | 51.5 | 46 | 32 | 84 | * | * | 19-14 | 14-9 | * | |
| 22 | 56 | 50.5 | 38 | 84 | * | * | 19-14 | 14-9 | * | |
| 24 | 60 | 54 | 45 | 84 | * | * | 23-18 | 18-13 | * | |
| 28 | 67 | 61 | 48 | 84 | * | * | 23-18 | 18-13 | * | |
| 36 | 82 | 73.5 | 58 | 94 | * | * | 33-25 | 25-18 | * | |
| 40 | 88 | 80 | 65 | 99 | * | * | 39-31 | 31-24 | 24-16 | |

| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|------------|------------------------|-----|-----|
| 24-28 | FS3328 | 33 | 28 |
| 24-28 | FS3833 | 38 | 33 |
| 36 | FS4035 | 40 | 35 |
| 40 | FS5040 | 50 | 40 |
| 36 | FS5045 | 50 | 45 |
| 40 | FS5550 | 55 | 50 |

Please consult our Sales Office for further details about this dimension and according to conduit size.

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

Dimensions in mm

KVBS - Bayonet Connector with protected mating ramps



Series Code KVBS

08

ST

T

GG

24-10

S

X

FS

LC

F26

N

Shell Type Connector Class

Grommet (ST - ST1 - ST2 Class only)



Grommet cone (ST - ST1 - ST2 Class only)

Gasket

Backshell

Backshell Shell Conduits size finish

90° Elbow

Gasket

Adapter (AST1 - ST1 - AST2 - ST2 Class only)

Gasket

Metal adapter

| | | | | | | | |
|---------------------|--------------------------|--|--|---------------------|-------------------------|-----------------|---|
| Insulating material | - | Thermoplastic resin | GG | Coupling Nut Type | GG | Rubber Covered | |
| KVBS | Series Code | KVBS | 24-10 | Insert Arrangement | Page 14 | | |
| Shell Material | - | Aluminum | S | Contact Gender | S | Socket contacts | |
| | 08 | Plug Connector with 90° elbow without grounding finger | P | | P | Pin contacts | |
| | 98 | Plug Connector with 90° elbow with grounding finger | X | Polarization Code** | Page 14 | | |
| 08 | Shell Type | 81 | Plug Connector with 90° elbow without grounding finger Rubber covered coupling nut (short version) | FS | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits |
| | | 981 | Plug Connector with 90° elbow Rubber covered coupling nut (short version) with grounding finger | xxxx | Conduit Size | xxxx | ØA1ØA2 |
| ST | Connector Class | AST | with waterproof O-ring (IP67***) | LC | Contact Termination | LC | Less contacts |
| | | ST | with waterproof O-ring and grommet (IP67***) | - | Contact Plating | - | Silver plating |
| | | AST1 | with waterproof O-ring (IP67***) | | | CD5 | Gold plating |
| | | ST1 | with waterproof O-ring and grommet (IP67***) | F26 | Shell finish | F16 | CCF - Black passivation (*) conductive |
| | | AST2 | with waterproof O-ring (IP67***) | | | F26 | hard anodization (*) |
| | | ST2 | with waterproof O-ring and grommet (IP67***) | N | Modification Code** | N | Consult our sales office |
| T | Connector Modification** | T | With plastic caps | | | S | |

(#) In some sizes the grommet cone is not needed

P/N Sample: KVBS 08STGGT 24-10SX FS5040 LC F26 N

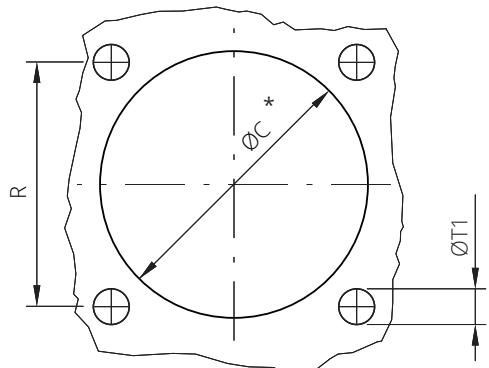
*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529

(*) RoHS compliance (**) If required

KVBSG - Bayonet Connector with external insulated coating

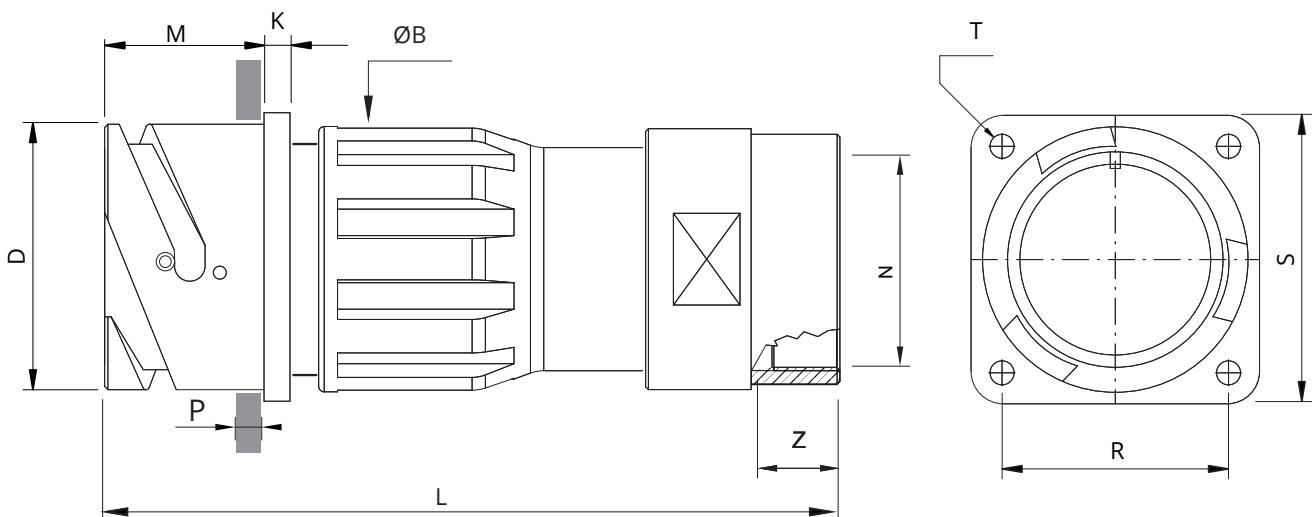
Rear Mounting Receptacle (030) with Backshell Class (DA...M - RA...M)

Connector with backshell provided with an internal Metric thread suitable for cable glands or conduit adapters.



Panel cut out

* For installation with backshell mounted, consult our sales office.



| Shell size | ØD +0 -0.15 | L max | M ±0.2 | K ±0.2 | Z min | N Backshell Thread | R ±0.1 | S ±0.3 | ØT | ØT1 | P Panel Thickness Max ** | ØC* ±0.2 |
|------------|----------------|-------|--------|--------|-------|--------------------|--------|--------|----|-----|--------------------------|----------|
| Metric | | | | | | | | | | | | |
| 18 | 30.8 | 103 | 23.4 | 4 | 12 | M20 | 27 | 34.9 | M4 | 4.5 | 7.25 | 31.7 |
| 20 | 34.2 | 120 | 23.4 | 4 | 15 | M25 | 29.4 | 38.1 | M4 | 4.5 | 7.3 | 35 |
| 22 | 37.4 | 120 | 23.4 | 4 | 15 | M25 | 31.8 | 41 | M4 | 4.5 | 7.3 | 38.3 |
| 24 | 40.9 | 139 | 23.4 | 4 | 16 | M32 | 34.9 | 44.5 | M4 | 4.5 | 6.85 | 41.8 |
| 28 | 46.7 | 140 | 24.4 | 4 | 16 | M32 | 39.7 | 50.8 | M5 | 5.5 | 7.8 | 47.6 |
| 36 | 59.6 | 151 | 24.4 | 4 | *** | M40 | 49.2 | 63.5 | M5 | 5.5 | 7.5 | 60.5 |
| 40 | 65.5 | 154 | 24.4 | 4 | *** | M50 | 55.6 | 69.8 | M5 | 5.5 | 7.5 | 66.4 |

** For use with no rubber covered nut

For use with shell type GG coupling nut rubber covered (or shell type 61 or 81), please consult our sales office.

Dimensions in mm

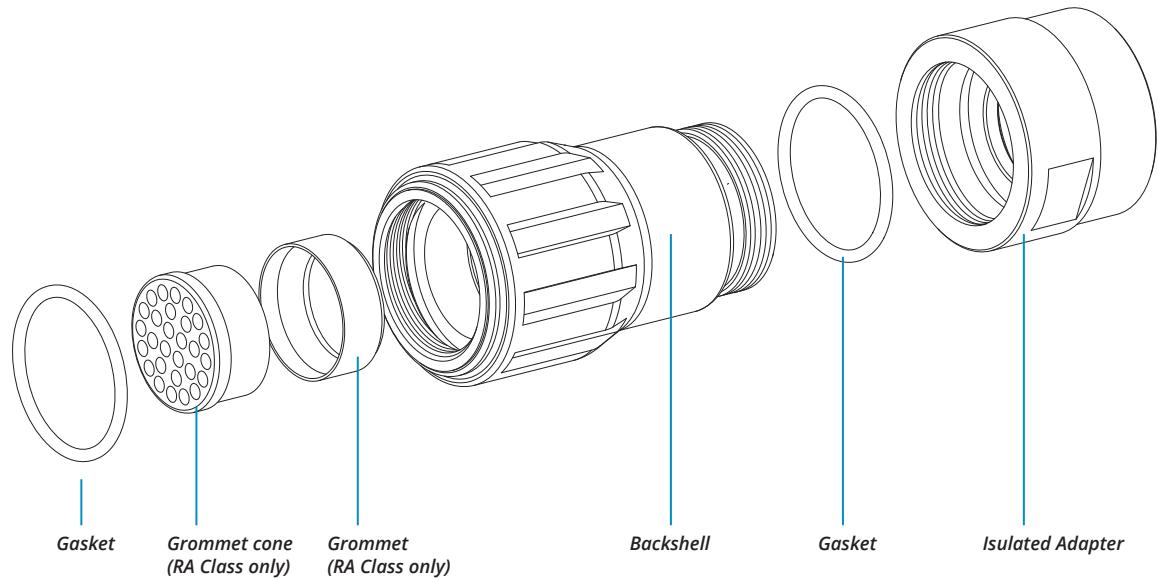
*** On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBSG - Bayonet Connector with external insulated coating



Series Code Shell Type Connector Class Backshell internal thread Shell finish



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | |
|--------------------------------|--------------------------|-------|---|---|---------------------------|-----|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input checked="" type="checkbox"/> | Polarization Code** | | Page 14 |
| <input type="checkbox"/> KVBSG | Series Code | KVBSG | Bayonet Connector with external insulated coating | <input checked="" type="checkbox"/> M20 | Backshell internal thread | Mxx | Provided with an internal Metric thread |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> LC | Contact Termination | LC | Less contacts |
| <input type="checkbox"/> 030 | Shell Type | 030 | Rear mounting Receptacle | <input type="checkbox"/> | Contact Plating | - | Silver plating |
| <input type="checkbox"/> DA | Connector Class | DA | with waterproof O-ring (IP67***) | <input checked="" type="checkbox"/> F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | | RA | with waterproof O-ring and grommet (IP67***) | | | F26 | hard anodization (*) |
| <input type="checkbox"/> T | Connector Modification** | T | With plastic caps | | | - | Without gasket |
| | | - | Receptacle connector with threaded holes | <input type="checkbox"/> G | Panel Gasket | G | With waterproof panel gasket |
| | | FP | Receptacle connector with through holes | | | G3 | With waterproof shielded panel gasket |
| <input type="checkbox"/> 24-10 | Insert Arrangement | | | <input type="checkbox"/> N | Modification Code** | N | |
| | | | | | | S | Consult our sales office |
| <input type="checkbox"/> S | Contact Gender | S | Socket contacts | | | | |
| | | P | Pin contacts | | | | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBSG 030DAT 24-10SX M20 LC F26 G N

KVBSG - Bayonet Connector with external insulated coating

Rear Mounting Receptacle (030) with Backshell Class (DA...FS - RA...FS)

Connector with special adapter for UNI4883 rubber conduits.

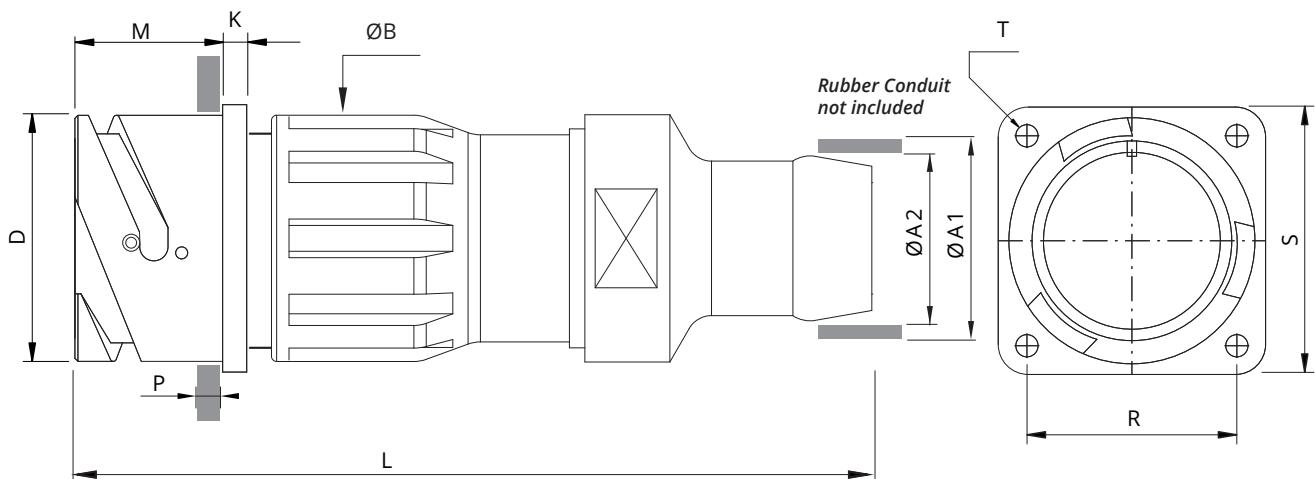
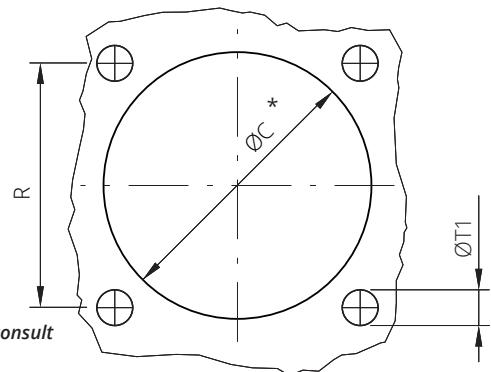
Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: KVBSG 030DA...FS5040...).

Rubber covered coupling nut able to protect against dust and impact.



Panel cut out

* For installation with backshell mounted, consult our sales office.



| Shell size | ØD | L | M | K | R | S | ØT | ØT1 | P ** | ØC* | Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|------------|-------------|-----|------|------|------|------|----|-----|---------------------|------|-------------|------------------------|-----|-----|
| | +0 -0.15 | max | ±0.2 | ±0.2 | ±0.1 | ±0.3 | | | Panel Thickness Max | ±0.2 | 18-20-22 | FS2015 | 20 | 15 |
| 18 | 30.8 | *** | 23.4 | 4 | 27 | 34.9 | M4 | 4.5 | 7.25 | 31.7 | 20-22-24-28 | FS2318 | 23 | 18 |
| 20 | 34.2 | *** | 23.4 | 4 | 29.4 | 38.1 | M4 | 4.5 | 7.3 | 35 | 28 | FS2520 | 25 | 20 |
| 22 | 37.4 | *** | 23.4 | 4 | 31.8 | 41 | M4 | 4.5 | 7.3 | 38.3 | 20-22 | FS2722 | 27 | 22 |
| 24 | 40.9 | *** | 23.4 | 4 | 34.9 | 44.5 | M4 | 4.5 | 6.85 | 41.8 | 20-22-24-28 | FS3328 | 33 | 28 |
| 28 | 46.7 | *** | 24.4 | 4 | 39.7 | 50.8 | M5 | 5.5 | 7.8 | 47.6 | 20-22 | FS2924 | 29 | 24 |
| 36 | 59.6 | *** | 24.4 | 4 | 49.2 | 63.5 | M5 | 5.5 | 7.5 | 60.5 | 24-28-36 | FS3530 | 35 | 30 |
| 40 | 65.5 | *** | 24.4 | 4 | 55.6 | 69.8 | M5 | 5.5 | 7.5 | 66.4 | 24-28 | FS4030 | 40 | 30 |
| | | | | | | | | | | | 24-28-36 | FS4035 | 40 | 35 |
| | | | | | | | | | | | 40 | FS4540 | 45 | 40 |
| | | | | | | | | | | | 40 | FS5040 | 50 | 40 |
| | | | | | | | | | | | 40 | FS5045 | 50 | 45 |
| | | | | | | | | | | | 36 | FS5247 | 52 | 47 |
| | | | | | | | | | | | 36-40 | FS5550 | 55 | 50 |

** For use with no rubber covered nut

For use with shell type GG coupling nut rubber covered (or shell type 61 or 81), please consult our sales office.

Dimensions in mm

*** On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBSG - Bayonet Connector with external insulated coating

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|--------------------------|-----|--------------------------|----|--------------------------|---|--------------------------|-------|--------------------------|---|--------------------------|---|--------------------------|------|--------------------------|------|--------------------------|----|--------------------------|-----|--------------------------|---|--------------------------|---|
| <input type="checkbox"/> | KVBSG | <input type="checkbox"/> | 030 | <input type="checkbox"/> | DA | <input type="checkbox"/> | T | <input type="checkbox"/> | 24-10 | <input type="checkbox"/> | S | <input type="checkbox"/> | X | <input type="checkbox"/> | FS.. | <input type="checkbox"/> | xxxx | <input type="checkbox"/> | LC | <input type="checkbox"/> | F26 | <input type="checkbox"/> | G | <input type="checkbox"/> | N |
|--------------------------|-------|--------------------------|-----|--------------------------|----|--------------------------|---|--------------------------|-------|--------------------------|---|--------------------------|---|--------------------------|------|--------------------------|------|--------------------------|----|--------------------------|-----|--------------------------|---|--------------------------|---|

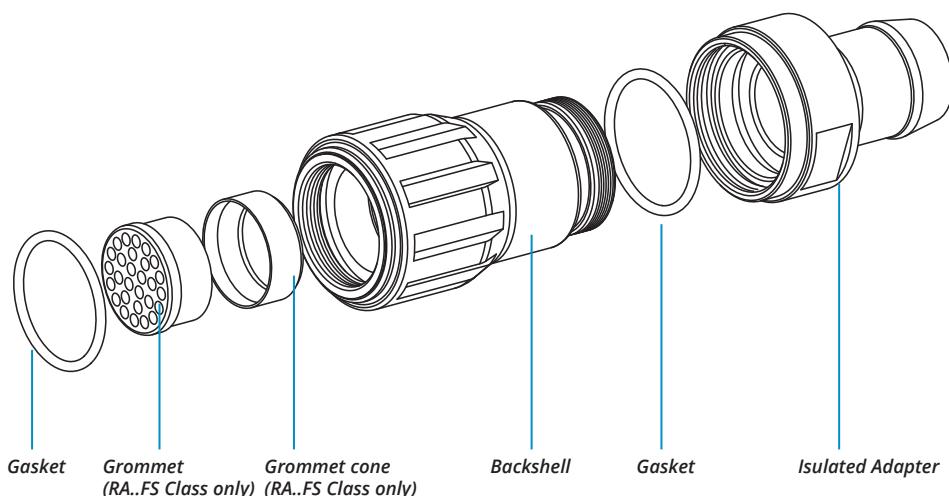
Series
Code

Shell
Type

Connector
Class

Backshell
Conduits size

Shell
finish



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | | | |
|--------------------------|------------------------|-----------------------------|---------------------|---|--------------------------|------------------------|----------------------------|---------|---|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> | X | Polarization Code** | | Page 14 | |
| <input type="checkbox"/> | KVBSG | Series Code | KVBSG | Bayonet Connector with external insulated coating | <input type="checkbox"/> | FS.. | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> | xxxx | Conduit Size | xxxx | ØA1ØA2 | |
| <input type="checkbox"/> | 030 | Shell Type | 030 | Rear mounting Receptacle | <input type="checkbox"/> | LC | Contact Termination | LC | Less contacts |
| <input type="checkbox"/> | DA | Connector Class | DA | with waterproof O-ring (IP67***) | <input type="checkbox"/> | - | Contact Plating | - | Silver plating |
| <input type="checkbox"/> | | | RA | with waterproof O-ring and grommet (IP67***) | <input type="checkbox"/> | - | | CD5 | Gold plating |
| <input type="checkbox"/> | T | Connector Modification** | T | With plastic caps | <input type="checkbox"/> | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| <input type="checkbox"/> | | | - | Receptacle connector with threaded holes | <input type="checkbox"/> | | | F26 | hard anodization (*) |
| <input type="checkbox"/> | | | FP | Receptacle connector with through holes | <input type="checkbox"/> | | | - | Without gasket |
| <input type="checkbox"/> | 24-10 | Insert Arrangement | | | <input type="checkbox"/> | G | Panel Gasket | G | With waterproof panel gasket |
| <input type="checkbox"/> | S | Contact Gender | S | Socket contacts | <input type="checkbox"/> | | | G3 | With waterproof shielded panel gasket |
| <input type="checkbox"/> | | | P | Pin contacts | <input type="checkbox"/> | N | Modification Code** | N | Consult our sales office |
| <input type="checkbox"/> | | | | | <input type="checkbox"/> | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBSG 030DAT 24-10SX FS2015 LC F26 G N

KVBSG - Bayonet Connector with external insulated coating

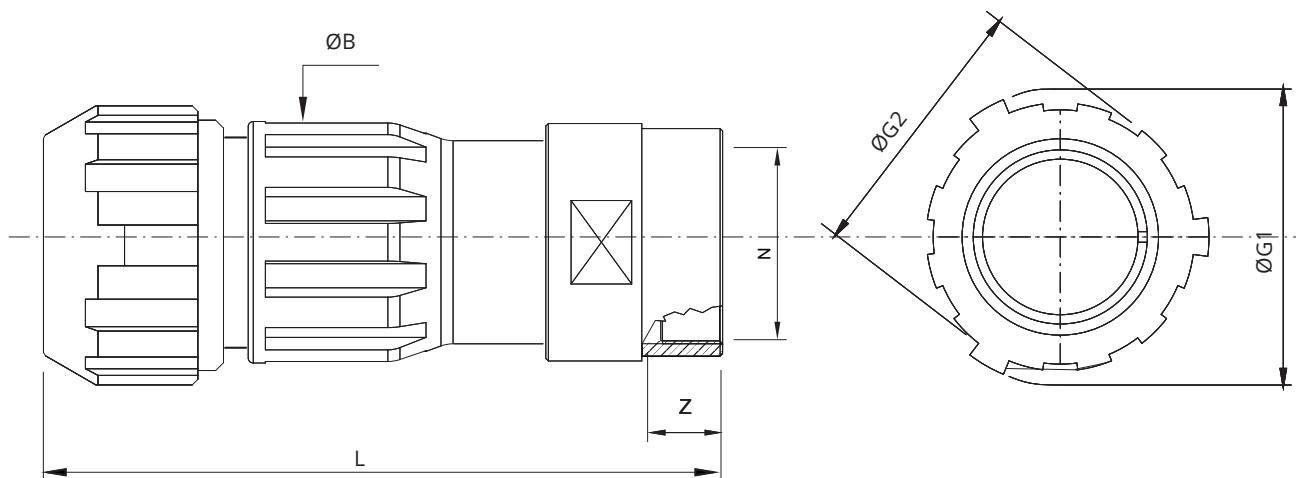
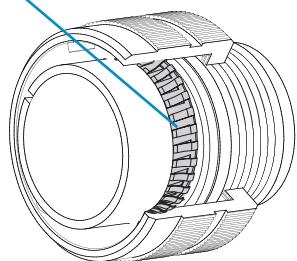
Plug Connector (06 - 61 - 96 - 961) with Backshell Class (DA..M - RA..M)

Connector with backshell provided with an internal Metric thread suitable for cable glands or conduit adapters. Rubber covered coupling nut able to protect against dust and impact.

SHELL



Grounding finger
for Shell 96/961



| Shell size | ØG1 | ØG2 | L max | Z min | N Backshell Thread |
|------------|------|------|----------|----------|--------------------------|
| 18 | 49 | 43.5 | 107 | 12 | Metric M20 |
| 20 | 51.5 | 46 | 124 | 15 | M25 |
| 22 | 56 | 50.5 | 124 | 15 | M25 |
| 24 | 60 | 54 | 143 | 16 | M32 |
| 28 | 67 | 61 | 144 | 16 | M32 |
| 36 | 82 | 73.5 | 155 | * | M40 |
| 40 | 88 | 80 | 159 | * | M50 |

Dimensions in mm

* On request (please consult our Sales Office)

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBSG - Bayonet Connector with external insulated coating



Series
Code

06

DA

T

24-10

S

X

M20

LC

F26

N

Shell
Type

Connector
Class

Backshell
internal
thread

Shell
finish

Gasket

Grommet
(RA..M
RA..PG Class only)

Grommet cone
(RA..M
RA..PG Class only)

Backshell

Gasket

Insulated Adapter

The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | |
|-----------|---------------------------------|--------------|--|--------------|----------------------------------|------------|---|
| | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | | Page 14 |
| | KVBSG Series Code | KVBSG | Bayonet Connector with external insulated coating | S | Contact Gender | S | Socket contacts |
| | Shell Material | - | Aluminum | P | | P | Pin contacts |
| 06 | Shell Type | 06 | Plug Connector without grounding finger | M20 | Backshell internal thread | Mxx | Provided with an internal Metric thread |
| | | 96 | Plug Connector with grounding finger | LC | Contact Termination | LC | Less contacts |
| | | 61 | Plug Connector without grounding finger Rubber covered coupling nut (short version) | - | Contact Plating | - | Silver plating |
| DA | Connector Class | 961 | Plug Connector Rubber covered coupling nut (short version) with grounding finger | CD5 | | CD5 | Gold plating |
| | | DA | with waterproof O-ring (IP67***) | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | | RA | with waterproof O-ring and grommet (IP67***) | | | F26 | hard anodization (*) |
| T | Connector Modification** | T | With plastic caps | N | Modification Code** | N | Consult our sales office |
| | | | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBSG 06DAT 24-10SX M20 LC F26 N

KVBSG - Bayonet Connector with external insulated coating

Plug Connector (06 - 61 - 96 - 961) with Backshell Class (DA..FS - RA..FS)

Connector with special adapter for UNI4883 rubber conduits.

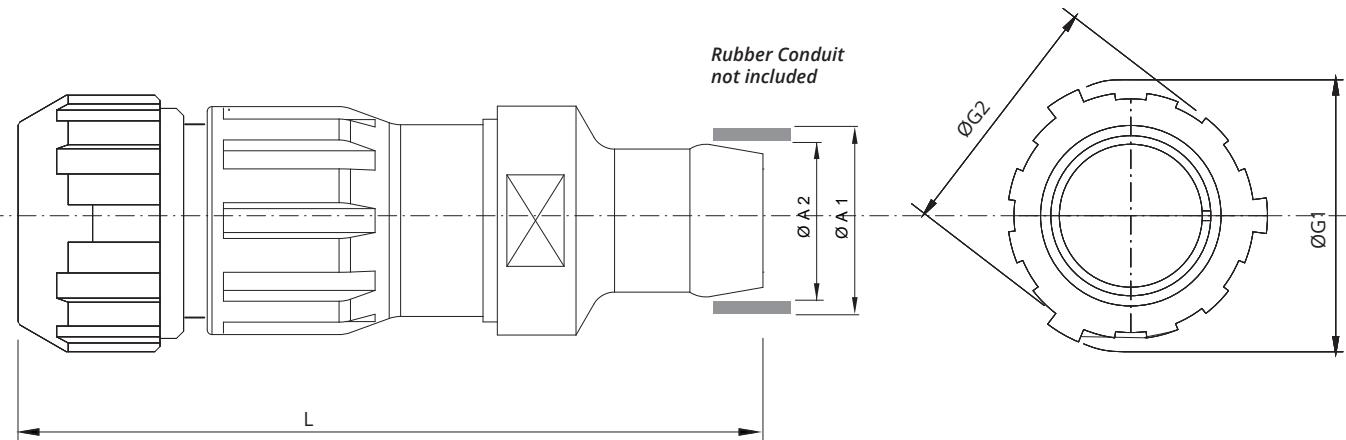
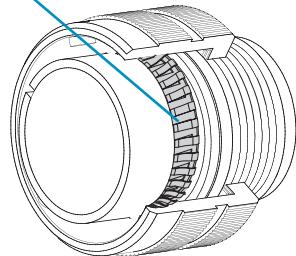
Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: KVBSG 06DA...FS5040...).

Rubber covered coupling nut able to protect against dust and impact.

SHELL



Grounding finger
for Shell 96/961



Please consult our Sales Office for further details about this dimension and according to conduit size.

| Shell size | ØG1 | ØG2 | L max |
|------------|------|------|----------|
| 18 | 49 | 43.5 | 115 |
| 20 | 51.5 | 46 | 128 |
| 22 | 56 | 50.5 | 128 |
| 24 | 60 | 54 | 150 |
| 28 | 67 | 61 | 150 |
| 36 | 82 | 73.5 | 160 |
| 40 | 88 | 80 | 165 |

| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|-------------|------------------------|-----|-----|
| 18-20-22 | FS2015 | 20 | 15 |
| 20-22-24-28 | FS2318 | 23 | 18 |
| 28 | FS2520 | 25 | 20 |
| 20-22 | FS2722 | 27 | 22 |
| 20-22-24-28 | FS3328 | 33 | 28 |
| 20-22 | FS2924 | 29 | 24 |
| 36 | FS3530 | 35 | 30 |
| 24-28-36 | FS3833 | 38 | 33 |
| 24-28 | FS4030 | 40 | 30 |
| 24-28-36 | FS4035 | 40 | 35 |
| 40 | FS4540 | 45 | 40 |
| 40 | FS5040 | 50 | 40 |
| 40 | FS5045 | 50 | 45 |
| 36 | FS5247 | 52 | 47 |
| 36-40 | FS5550 | 55 | 50 |

Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBSG - Bayonet Connector with external insulated coating



Series Code

Shell Type

Connector Class

Backshell Conduits size

Shell finish



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | |
|----------------------------|---------------------------------|---------------------|--|----------------------------|--|
| Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | Page 14 |
| KVBSG | Series Code | KVBSG | Bayonet Connector with external insulated coating | S | Socket contacts |
| | | | | P | Pin contacts |
| Shell Material | - | Aluminum | X | Polarization Code** | Page 14 |
| 06 | Shell Type | 06 | Plug Connector without grounding finger | FS | Backshell Conduits size |
| | | 96 | Plug Connector with grounding finger | xxxx | xxxx |
| | | 61 | Plug Connector without grounding finger Rubber covered coupling nut (short version) | LC | Contact Termination |
| DA | | 961 | Plug Connector Rubber covered coupling nut (short version) with grounding finger | LC | Less contacts |
| | DA | | with waterproof O-ring (IP67***) | - | Contact Plating |
| | | RA | with waterproof O-ring and grommet (IP67***) # | CD5 | Gold plating |
| T | Connector Modification** | T | With plastic caps | F26 | Shell finish |
| | | | | F16 | CCF - Black passivation (*) conductive |
| | | | | F26 | hard anodization (*) |
| | | | N | Modification Code** | N |
| | | | S | | Consult our sales office |

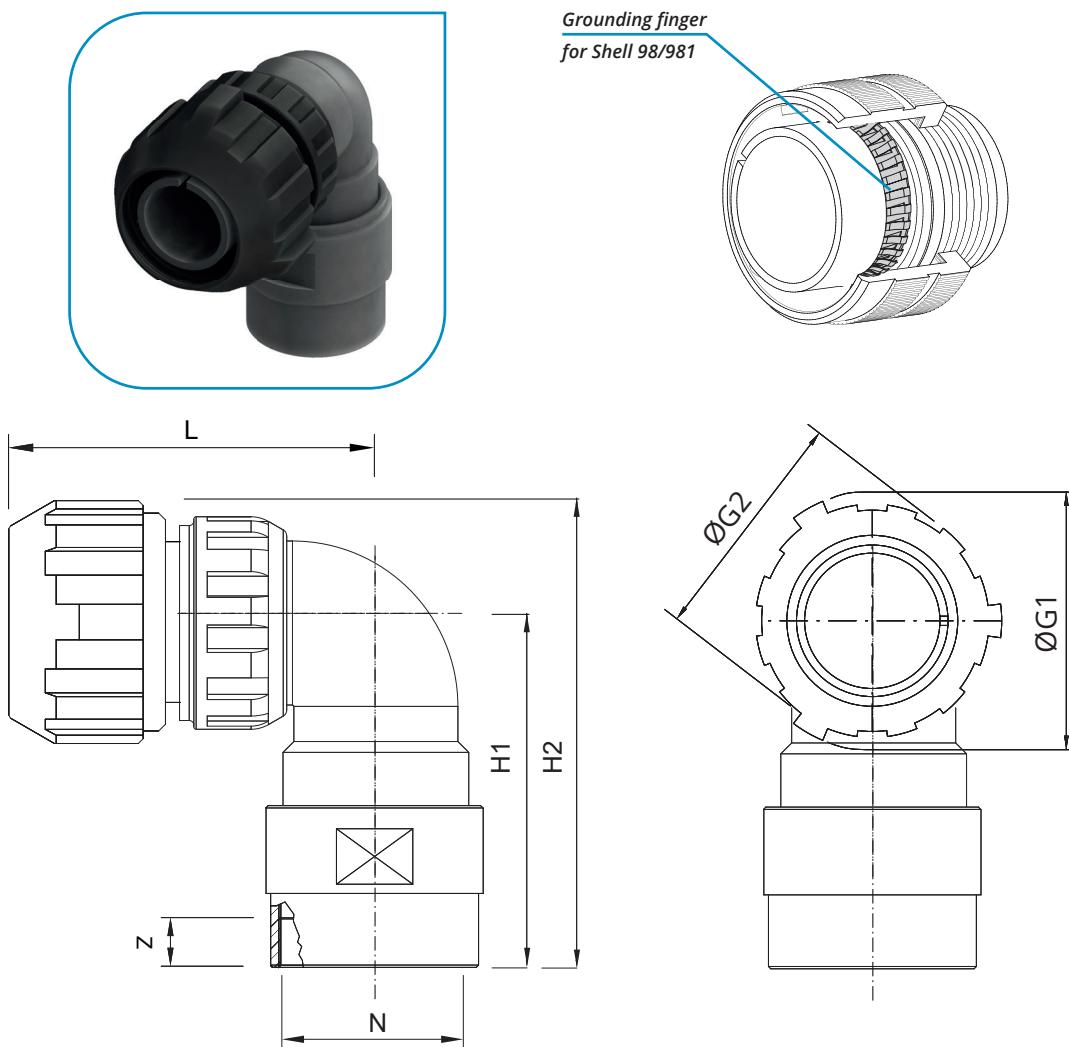
*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBSG 06DAT 24-10SX FS2015 LC F26 N

KVBSG - Bayonet Connector with external insulated coating

Plug Connector (08 - 81 - 98 - 981) with 90° Elbow Class (DA..M - RA..M)

Connector with backshell provided with an internal Metric thread suitable for cable glands or conduit adapters. Rubber covered coupling nut able to protect against dust and impact.



| Shell size | ØG1 | ØG2 | L max | H1 | H2 | Z min | N Backshell Thread |
|------------|------|------|----------|----|-------|----------|--------------------------|
| 18 | 49 | 43.5 | 86 | 65 | 89.5 | 12 | M20 |
| 20 | 51.5 | 46 | 90 | 67 | 92.8 | 15 | M25 |
| 22 | 56 | 50.5 | 90 | 73 | 101 | 15 | M25 |
| 24 | 60 | 54 | 91 | 80 | 110 | 16 | M32 |
| 28 | 67 | 61 | 91 | 82 | 115.5 | 16 | M32 |
| 36 | 82 | 73.5 | 101 | 92 | 133 | * | M40 |
| 40 | 88 | 80 | 105 | 94 | 138 | * | M50 |

Dimensions in mm

* On request (please consult our Sales Office)

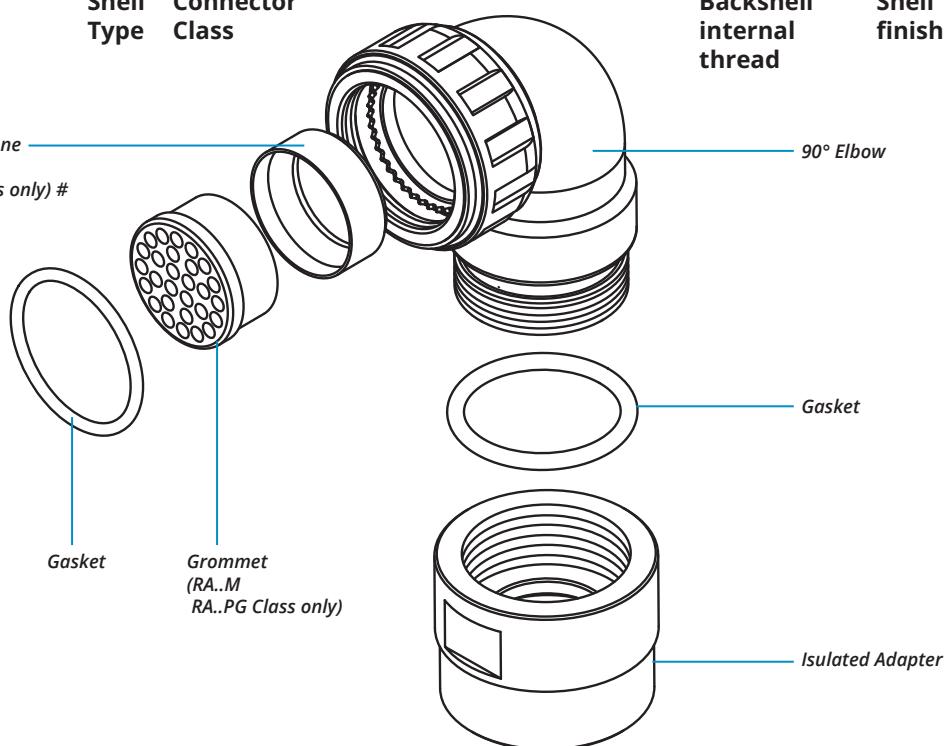
Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBSG - Bayonet Connector with external insulated coating

| | | | | | | | | | | | | | |
|--------------------------|--------------|--------------------------|-----------|-----------|----------------------------|--------------------------------|----------------------------|----------------------------|------------------------------|-----------------------------|------------|--------------------------|----------|
| <input type="checkbox"/> | KVBSG | <input type="checkbox"/> | 08 | DA | <input type="checkbox"/> T | <input type="checkbox"/> 24-10 | <input type="checkbox"/> S | <input type="checkbox"/> X | <input type="checkbox"/> M20 | <input type="checkbox"/> LC | F26 | <input type="checkbox"/> | N |
|--------------------------|--------------|--------------------------|-----------|-----------|----------------------------|--------------------------------|----------------------------|----------------------------|------------------------------|-----------------------------|------------|--------------------------|----------|

Series Code Shell Type Connector Class Backshell internal thread Shell finish

Grommet cone (RA..M RA..PG Class only) #



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | |
|--------------------------|---------------------------------|--------------|--|--------------|----------------------------------|------------|--|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | 24-10 | Insert Arrangement | | Page 14 |
| KVBSG | Series Code | KVBSG | Bayonet Connector with external insulated coating | S | Contact Gender | S | Socket contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | P | | P | Pin contacts |
| | | 08 | Plug Connector with 90° elbow without grounding finger | M20 | Backshell internal thread | Mxx | Provided with an internal Metric thread |
| | | 98 | Plug Connector with 90° elbow with grounding finger | LC | Contact Termination | LC | Less contacts |
| | 08 | 81 | Plug Connector with 90° elbow without grounding finger Rubber covered coupling nut (short version) | - | Contact Plating | CD5 | Silver plating |
| | | 981 | Plug Connector with 90° elbow Rubber covered coupling nut (short version) with grounding finger | | | | Gold plating |
| | DA | DA | with waterproof O-ring (IP67***) | F26 | Shell finish | F16 | CCF - Black passivation (*) - conductive |
| | | RA | with waterproof O-ring and grommet (IP67***) | | | F26 | hard anodization (*) |
| T | Connector Modification** | T | With plastic caps | N | Modification Code** | N | Consult our sales office |
| | | | | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBSG 08DAT 24-10SX M20 LC F26 N

(#) In some sizes the grommet cone is not needed

KVBSG - Bayonet Connector with external insulated coating

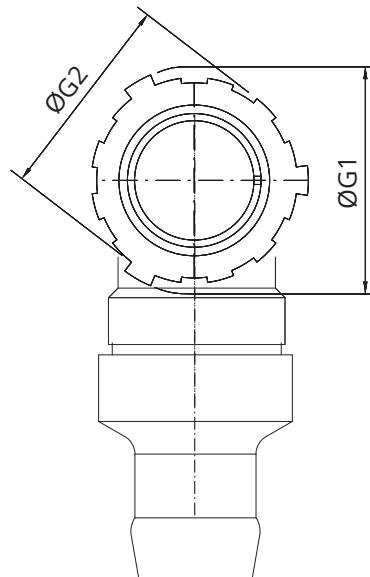
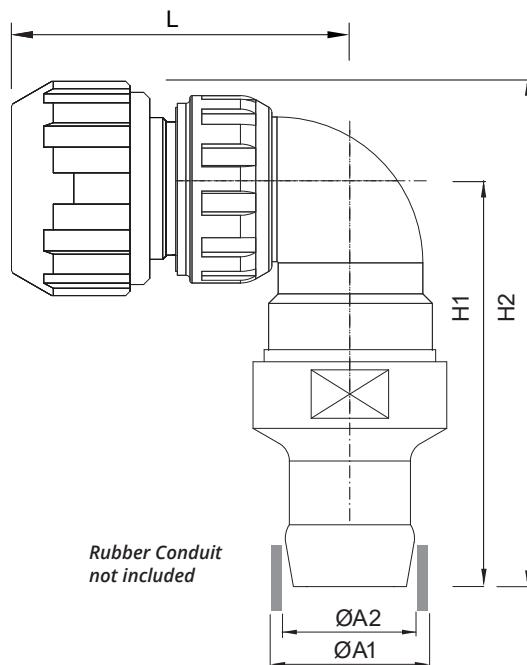
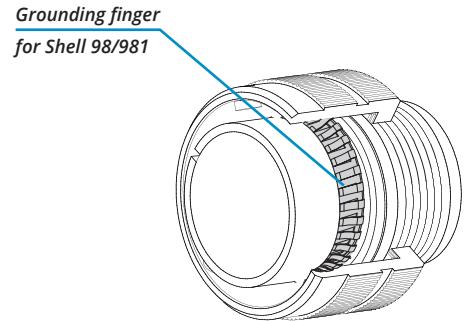
Plug Connector (08 - 81 - 98 - 981) with 90° Elbow Class (DA..FS - RA..FS)

Connector with special adapter for UNI4883 rubber conduits.

Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: KVBSG 08DA...FS5040...).

Rubber covered coupling nut able to protect against dust and impact.

SHELL



Please consult our Sales Office for further details about this dimension and according to conduit size.

| Shell size | ØG1 | ØG2 | L max | H1 | H2 |
|------------|------|------|-------|----|-------|
| 18 | 49 | 43.5 | 68 | 85 | 109.5 |
| 20 | 51.5 | 46 | 71 | 85 | 110.8 |
| 22 | 56 | 50.5 | 71 | 85 | 113 |
| 24 | 60 | 54 | 76 | 85 | 115 |
| 28 | 67 | 61 | 76 | 85 | 118.5 |
| 36 | 82 | 73.5 | 84 | 90 | 131 |
| 40 | 88 | 80 | 88 | 95 | 139 |

| Shell size | Backshell Conduit Size | ØA1 | ØA2 |
|-------------|------------------------|-----|-----|
| 18-20-22 | FS2015 | 20 | 15 |
| 20-22-24-28 | FS2318 | 23 | 18 |
| 28 | FS2520 | 25 | 20 |
| 20-22 | FS2722 | 27 | 22 |
| 20-22-24-28 | FS3328 | 33 | 28 |
| 20-22 | FS2924 | 29 | 24 |
| 36 | FS3530 | 35 | 30 |
| 24-28-36 | FS3833 | 38 | 33 |
| 24-28 | FS4030 | 40 | 30 |
| 24-28-36 | FS4035 | 40 | 35 |
| 40 | FS4540 | 45 | 40 |
| 40 | FS5040 | 50 | 40 |
| 40 | FS5045 | 50 | 45 |
| 36 | FS5247 | 52 | 47 |
| 36-40 | FS5550 | 55 | 50 |

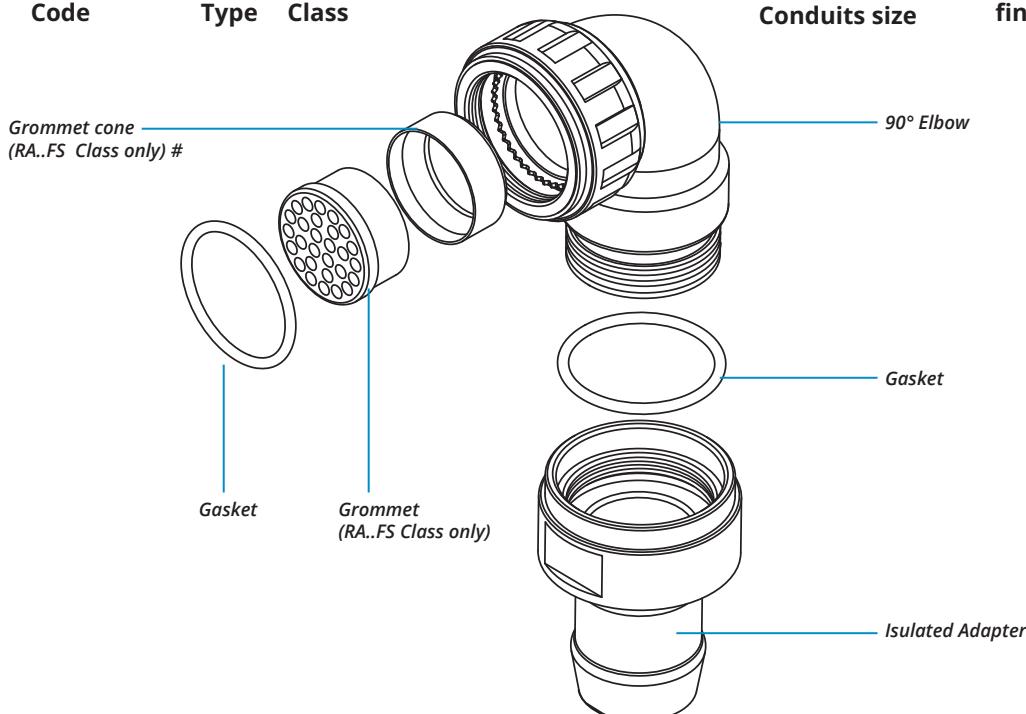
Dimensions in mm

Dimension "L" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations.

KVBSG - Bayonet Connector with external insulated coating

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|--------------------------|----|----|--------------------------|---|-------|--------------------------|---|--------------------------|---|--------------------------|----|--------------------------|------|--------------------------|----|--------------------------|-----|--------------------------|---|
| <input type="checkbox"/> | KVBSG | <input type="checkbox"/> | 08 | DA | <input type="checkbox"/> | T | 24-10 | <input type="checkbox"/> | S | <input type="checkbox"/> | X | <input type="checkbox"/> | FS | <input type="checkbox"/> | xxxx | <input type="checkbox"/> | LC | <input type="checkbox"/> | F26 | <input type="checkbox"/> | N |
|--------------------------|-------|--------------------------|----|----|--------------------------|---|-------|--------------------------|---|--------------------------|---|--------------------------|----|--------------------------|------|--------------------------|----|--------------------------|-----|--------------------------|---|

Series Code Shell Type Connector Class Backshell Conduits size Shell finish



The accessories for this class are not always available in stock for all sizes; we suggest you consult our Sales Office for availability

| | | | | | | | | | |
|--------------------------|---------------------|--------------------------|---------------------|--|--------------------------|---------------------|-------------------------|---------|---|
| <input type="checkbox"/> | Insulating material | - | Thermoplastic resin | <input type="checkbox"/> | 24-10 | Insert Arrangement | | | Page 14 |
| <input type="checkbox"/> | KVBSG | Series Code | KVBSG | Bayonet Connector with external insulated coating | <input type="checkbox"/> | S | Contact Gender | S | Socket contacts |
| <input type="checkbox"/> | Shell Material | - | Aluminum | <input type="checkbox"/> | X | Polarization Code** | | Page 14 | |
| <input type="checkbox"/> | 08 | Shell Type | 08 | Plug Connector with 90° elbow without grounding finger | <input type="checkbox"/> | FS | Backshell Conduits size | FS | Provided with a special adapter for UNI4883 rubber conduits |
| <input type="checkbox"/> | 98 | | 98 | Plug Connector with 90° elbow with grounding finger | <input type="checkbox"/> | xxxx | Conduit Size | xxxx | ØA1ØA2 |
| <input type="checkbox"/> | 81 | | 81 | Plug Connector with 90° elbow without grounding finger Rubber covered coupling nut (short version) | <input type="checkbox"/> | LC | Contact Termination | LC | Less contacts |
| <input type="checkbox"/> | 981 | | 981 | Plug Connector with 90° elbow Rubber covered coupling nut (short version) with grounding finger | <input type="checkbox"/> | - | Contact Plating | - | Silver plating |
| <input type="checkbox"/> | DA | Connector Class | DA | with waterproof O-ring (IP67***) | <input type="checkbox"/> | F26 | Shell finish | F16 | CCF - Black passivation (*) conductive |
| <input type="checkbox"/> | | | RA | with waterproof O-ring and grommet (IP67***) # | <input type="checkbox"/> | | | F26 | hard anodization (*) |
| <input type="checkbox"/> | T | Connector Modification** | T | With plastic caps | <input type="checkbox"/> | N | Modification Code** | N | Consult our sales office |
| <input type="checkbox"/> | | | | | <input type="checkbox"/> | | | S | |

*** Protection degree: IP 67 (only in the mating area with mated connectors) according to EN 60529 (*) RoHS compliance (**) If required

P/N Sample: KVBSG 08DAT 24-10SX FS2015 LC F26 N

(#) In some sizes the grommet cone is not needed

Connector Shell - Receptacle mounting holes option

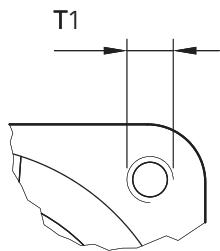
The rear mounting panel connectors can be also supplied with different mounting holes. Please refer to the dimensional tables below.



| | | | |
|-----------|-------------------------------|-----------|---|
| FF | Connector Modification | FF | Receptacle connector with threaded holes (to specify for 00/02/020/05 shell only) |
| | | FP | Receptacle connector with through holes (to specify for 03/030/038/TB shell only) |



* M5 front mounting panel, M4 Real mounting panel

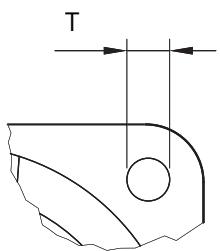


Shell size

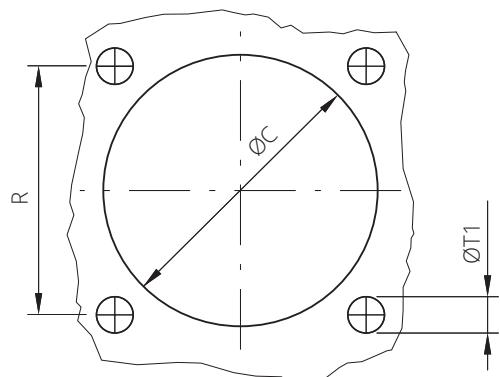
Rear mounting panel connectors
Shell version: 030

| Shell size | Through holes FP - T | Threaded holes Standard Version - T1 |
|------------|----------------------|--------------------------------------|
| 18 | 3.2 | M4 |
| 20 | 3.2 | M4 |
| 22 | 3.2 | M4 |
| 24 | 3.7 | M4 |
| 28 | 3.7 | M5 |
| 36 | 4.3 | M5 |
| 40 | 4.3 | M5 |

Dimensions in mm



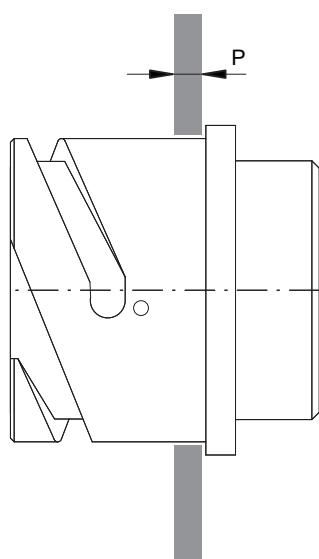
Connector Shell - Panel drilling dimensions



Panel cut out

| Shell size | R | Shell version: 030 | ØC ±0.2 | ØT1 for FF Threaded holes (standard hole) | ØT1 for FP Through holes |
|------------|------|--------------------|------------|---|--------------------------------|
| 18 | 27 | 31.7 | 4.5 | 3.4 | |
| 20 | 29.4 | 35 | 4.5 | 3.4 | |
| 22 | 31.8 | 38.3 | 4.5 | 3.4 | |
| 24 | 34.9 | 41.8 | 4.5 | 3.9 | |
| 28 | 39.7 | 47.6 | 5.5 | 3.9 | |
| 36 | 49.2 | 60.5 | 5.5 | 4.5 | |
| 40 | 55.6 | 66.4 | 5.5 | 4.5 | |

Connector Shell - Mounting panel characteristics



| Shell size | P Panel Thickness * |
|------------|---------------------|
| 18 | 7.25 |
| 20 | 7.3 |
| 22 | 7.3 |
| 24 | 6.85 |
| 28 | 7.8 |
| 36 | 7.5 |
| 40 | 7.5 |

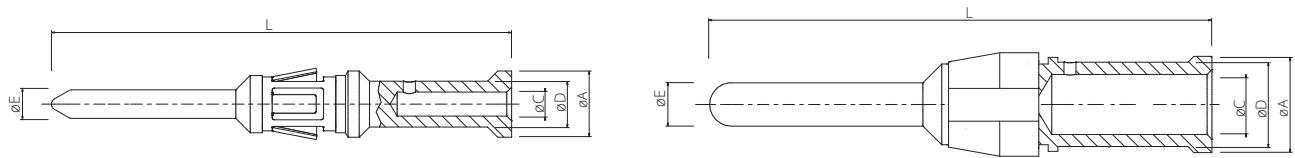
Shell version: 030
Rear Mounting Panel Connectors
Max

* For use with no rubber covered nut (or with shell type 61 or 81)
For use with shell type GG coupling nut rubber covered please consult our sales office.

Dimensions in mm

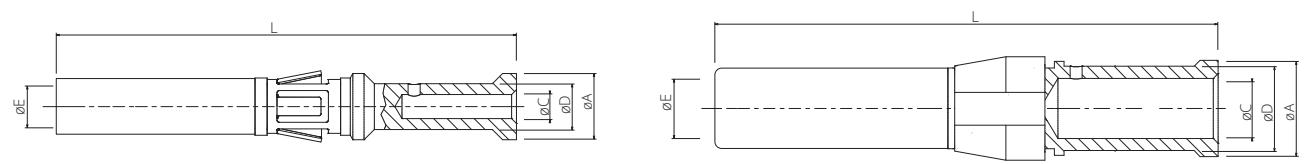
KVBS - KT Contacts - for thermoplastics inserts

Pin Contacts - Crimp - Silver Plated



| Contact Size | Part Number | Short Description | Wire section (mm²) | AWG cable size | ØA | ØE | ØC | ØD | L |
|--------------|-------------|-------------------|--------------------|----------------|-----|------|-----|-----|------|
| 16 | ** | KT485 16-12P | 0.5÷0.75 | - | 3.7 | 1.57 | 1.2 | 2.6 | 33.4 |
| 16 | ** | KT485 16-17P | 0.5÷1.5 | 20÷16 | 3.8 | 1.57 | 1.7 | 2.3 | 33.4 |
| 16 | ** | KT485 16-19P | 1.5÷2.5 | 16÷14 | 3.8 | 1.57 | 1.9 | 2.5 | 33.4 |
| 16 | ** | KT485 16-20P * | 1÷2 | 18÷14 | 3.7 | 1.57 | 2 | 2.9 | 33.4 |
| 16 | ** | KT485 16-26P | 2.5÷3 | - | 3.7 | 1.57 | 2.5 | 3.8 | 33.4 |
| 12 | ** | KT485 12-12P | 0.6 | 20 | 5.5 | 2.37 | 1.2 | 2.6 | 38.2 |
| 12 | ** | KT485 12-20P | 1÷2 | 18÷14 | 5.5 | 2.37 | 2 | 3.8 | 38.2 |
| 12 | ** | KT485 12-26P * | 2.5÷3 | - | 5.5 | 2.37 | 2.5 | 3.8 | 38.2 |
| 12 | ** | KT485 12-30P | 4 | - | 5.5 | 2.37 | 3 | 4.8 | 38.2 |
| 12 | ** | KT485 12-38P | 6 | - | 5.5 | 2.37 | 3.6 | 4.8 | 38.2 |
| 8 | ** | KT485 8-15P | 1 | - | 8 | 3.59 | 1.5 | 3.4 | 41.7 |
| 8 | ** | KT485 8-22P | 2.5 | - | 8 | 3.59 | 2.2 | 3.8 | 41.7 |
| 8 | ** | KT485 8-30P** | 4 | - | 8 | 3.59 | 3 | 4.8 | 41.7 |
| 8 | ** | KT485 8-38P * | 6 | - | 8 | 3.59 | 3.6 | 4.8 | 41.7 |
| 8 | ** | KT485 8-50P** | 10 | - | 8 | 3.59 | 5 | 7 | 41.7 |

Socket Contacts - Crimp - Silver Plated



| Contact Size | Part Number | Short Description | Wire section (mm²) | AWG cable size | ØA | ØE | ØC | ØD | L |
|--------------|-------------|-------------------|--------------------|----------------|-----|------|-----|-----|------|
| 16 | ** | KT485 16-12S | 0.5÷0.75 | - | 3.7 | 1.65 | 1.2 | 2.6 | 38.4 |
| 16 | ** | KT485 16-17S** | 0.5÷1.5 | 20÷16 | 3.8 | 1.65 | 1.7 | 2.3 | 38.4 |
| 16 | ** | KT485 16-19S** | 1.5÷2.5 | 16÷14 | 3.8 | 1.65 | 1.9 | 2.5 | 38.4 |
| 16 | ** | KT485 16-20S * | 1÷2 | 18÷14 | 3.7 | 1.65 | 2 | 2.9 | 38.4 |
| 16 | ** | KT485 16-26S | 2.5÷3 | - | 3.7 | 1.65 | 2.5 | 3.8 | 38.4 |
| 12 | ** | KT485 12-12S | 0.6 | 20 | 5.5 | 2.48 | 1.2 | 2.6 | 38.7 |
| 12 | ** | KT485 12-20S | 1÷2 | 18÷14 | 5.5 | 2.48 | 2 | 3.8 | 38.7 |
| 12 | ** | KT485 12-26S * | 2.5÷3 | - | 5.5 | 2.48 | 2.5 | 3.8 | 38.7 |
| 12 | ** | KT485 12-30S | 4 | - | 5.5 | 2.48 | 3 | 4.8 | 38.7 |
| 12 | ** | KT485 12-38S | 6 | - | 5.5 | 2.48 | 3.6 | 4.8 | 38.7 |
| 8 | ** | KT485 8-15S | 1 | - | 8 | 3.7 | 1.5 | 3.4 | 41.7 |
| 8 | ** | KT485 8-22S | 2.5 | - | 8 | 3.7 | 2.2 | 3.8 | 41.7 |
| 8 | ** | KT485 8-30S** | 4 | - | 8 | 3.7 | 3 | 4.8 | 41.7 |
| 8 | ** | KT485 8-38S * | 6 | - | 8 | 3.7 | 3.6 | 4.8 | 41.7 |
| 8 | ** | KT485 8-50S** | 10 | - | 8 | 3.7 | 5 | 7 | 41.7 |

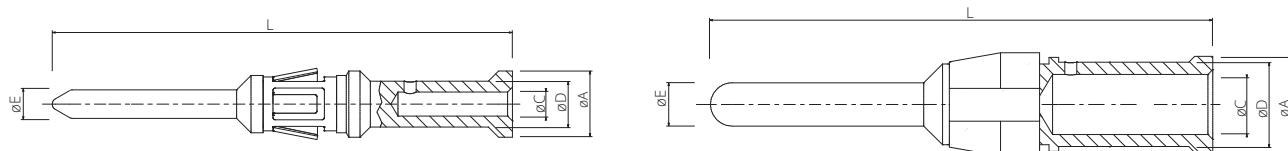
Dimensions in mm

* Contacts included in the standard connectors

** On request (please consult our Sales Office)

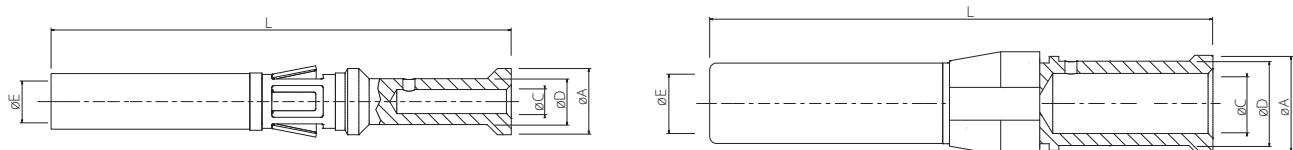
KVBS - KT Contacts - for thermoplastics inserts

Pin Contacts - Crimp - Gold Plated



| Contact Size | Part Number | Short Description | Wire section (mm²) | AWG cable size | ØA | ØE | ØC | ØD | L |
|--------------|-------------|--------------------|--------------------|----------------|-----|------|-----|-----|------|
| 16 | VS701302 | KT485 16-12P CD5 | 0.5÷0.75 | - | 3.7 | 1.57 | 1.2 | 2.6 | 33.4 |
| 16 | VS701315 | KT485 16-17P CD5 | 0.5÷1.5 | 20÷16 | 3.8 | 1.57 | 1.7 | 2.3 | 33.4 |
| 16 | VS701316 | KT485 16-19P CD5 | 1.5÷2.5 | 16÷14 | 3.8 | 1.57 | 1.9 | 2.5 | 33.4 |
| 16 | VS701303 | KT485 16-20P CD5 * | 1÷2 | 18÷14 | 3.7 | 1.57 | 2 | 2.9 | 33.4 |
| 16 | VS701304 | KT485 16-26P CD5 | 2.5÷3 | - | 3.7 | 1.57 | 2.5 | 3.8 | 33.4 |
| 12 | VS701305 | KT485 12-12P CD5 | 0.6 | 20 | 5.5 | 2.37 | 1.2 | 2.6 | 38.2 |
| 12 | VS701306 | KT485 12-20P CD5 | 1÷2 | 18÷14 | 5.5 | 2.37 | 2 | 3.8 | 38.2 |
| 12 | VS701307 | KT485 12-26P CD5 * | 2.5÷3 | - | 5.5 | 2.37 | 2.5 | 3.8 | 38.2 |
| 12 | VS701308 | KT485 12-30P CD5 | 4 | - | 5.5 | 2.37 | 3 | 4.8 | 38.2 |
| 12 | VS701309 | KT485 12-38P CD5 | 6 | - | 5.5 | 2.37 | 3.6 | 4.8 | 38.2 |
| 8 | VS701310 | KT485 8-15P CD5 | 1 | - | 8 | 3.59 | 1.5 | 3.4 | 41.7 |
| 8 | VS701311 | KT485 8-22P CD5 | 2.5 | - | 8 | 3.59 | 2.2 | 3.8 | 41.7 |
| 8 | VS701312 | KT485 8-30P CD5** | 4 | - | 8 | 3.59 | 3 | 4.8 | 41.7 |
| 8 | VS701313 | KT485 8-38P CD5 * | 6 | - | 8 | 3.59 | 3.6 | 4.8 | 41.7 |
| 8 | VS701314 | KT485 8-50P CD5** | 10 | - | 8 | 3.59 | 5 | 7 | 41.7 |

Socket Contacts - Crimp - Gold Plated



| Contact Size | Part Number | Short Description | Wire section (mm²) | AWG cable size | ØA | ØE | ØC | ØD | L |
|--------------|-------------|--------------------|--------------------|----------------|-----|------|-----|-----|------|
| 16 | VS701402 | KT485 16-12S CD5 | 0.5÷0.75 | - | 3.7 | 1.65 | 1.2 | 2.6 | 38.4 |
| 16 | VS701415 | KT485 16-17S CD5** | 0.5÷1.5 | 20÷16 | 3.8 | 1.65 | 1.7 | 2.3 | 38.4 |
| 16 | VS701416 | KT485 16-19S CD5** | 1.5÷2.5 | 16÷14 | 3.8 | 1.65 | 1.9 | 2.5 | 38.4 |
| 16 | VS701403 | KT485 16-20S CD5 * | 1÷2 | 18÷14 | 3.7 | 1.65 | 2 | 2.9 | 38.4 |
| 16 | VS701404 | KT485 16-26S CD5 | 2.5÷3 | - | 3.7 | 1.65 | 2.5 | 3.8 | 38.4 |
| 12 | VS701405 | KT485 12-12S CD5 | 0.6 | 20 | 5.5 | 2.48 | 1.2 | 2.6 | 38.7 |
| 12 | VS701406 | KT485 12-20S CD5 | 1÷2 | 18÷14 | 5.5 | 2.48 | 2 | 3.8 | 38.7 |
| 12 | VS701407 | KT485 12-26S CD5 * | 2.5÷3 | - | 5.5 | 2.48 | 2.5 | 3.8 | 38.7 |
| 12 | VS701408 | KT485 12-30S CD5 | 4 | - | 5.5 | 2.48 | 3 | 4.8 | 38.7 |
| 12 | VS701409 | KT485 12-38S CD5 | 6 | - | 5.5 | 2.48 | 3.6 | 4.8 | 38.7 |
| 8 | VS701410 | KT485 8-15S CD5 | 1 | - | 8 | 3.7 | 1.5 | 3.4 | 41.7 |
| 8 | VS701411 | KT485 8-22S CD5 | 2.5 | - | 8 | 3.7 | 2.2 | 3.8 | 41.7 |
| 8 | VS701412 | KT485 8-30S CD5** | 4 | - | 8 | 3.7 | 3 | 4.8 | 41.7 |
| 8 | VS701413 | KT485 8-38S CD5 * | 6 | - | 8 | 3.7 | 3.6 | 4.8 | 41.7 |
| 8 | VS701414 | KT485 8-50S CD5** | 10 | - | 8 | 3.7 | 5 | 7 | 41.7 |

Dimensions in mm

* Contacts included in the standard connectors

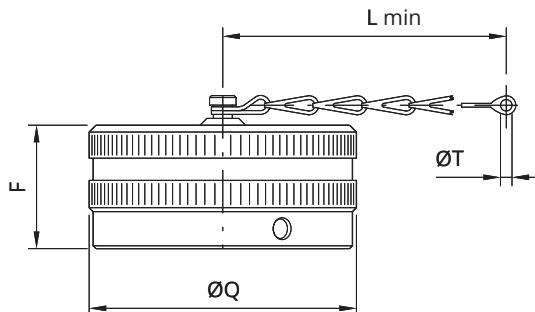
** On request (please consult our Sales Office)

Caps for Bayonet Connectors

Accessories For Connectors

Caps with chain for connectors version: shell type with ramp

Provided with sealing gasket. Chain and lugs are in stainless steel.
Protection degree: IP 67 (mated to the connector) according to EN 60529.



| Shell size | ØQ | F | L min | ØT |
|------------|------|------|-------|-----|
| 18 | 38 | 21.7 | 123 | 4.3 |
| 20 | 40.5 | 21.7 | 123 | 4.3 |
| 22 | 44 | 21.7 | 123 | 4.3 |
| 24 | 47 | 21.7 | 123 | 4.3 |
| 28 | 53 | 21.7 | 206 | 4.3 |
| 36 | 66.2 | 21.7 | 206 | 4.3 |
| 40 | 72.4 | 21.7 | 206 | 4.3 |

Finishes : F7 Black epoxy varnish (*RoHS compliance*)

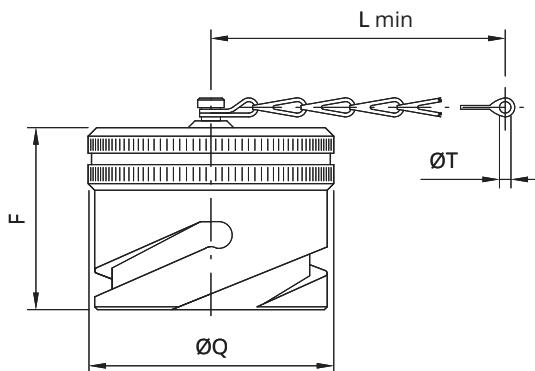
| Shell size | Part Number | Short Description |
|------------|-------------|-------------------|
| 18 | VS151105 | CVB 043-18 F7 |
| 20 | VS151106 | CVB 043-20 F7 |
| 22 | VS151107 | CVB 043-22 F7 |
| 24 | VS151108 | CVB 043-24 F7 |
| 28 | VS151109 | CVB 043-28 F7 |
| 36 | VS151111 | CVB 043-36 F7 |
| 40 | VS151112 | CVB 043-40 F7 |

Finishes : F16 CCF - Black passivation (*RoHS compliance*) - conductive

| Shell size | Part Number | Short Description |
|------------|-------------|-------------------|
| 18 | VS151129 | CVB 043-18 F16 |
| 20 | VS151130 | CVB 043-20 F16 |
| 22 | VS151131 | CVB 043-22 F16 |
| 24 | VS151132 | CVB 043-24 F16 |
| 28 | VS151133 | CVB 043-28 F16 |
| 36 | VS151135 | CVB 043-36 F16 |
| 40 | VS151136 | CVB 043-40 F16 |

Caps with chain for connector version: shell type with coupling nut

These caps have no sealing gasket because mated with connectors generally provided with front gasket.
Chain and lugs are in stainless steel. Protection degree: IP 67 (mated to the connector) according to EN 60529.



| Shell size | ØQ | F | L min | ØT |
|------------|------|------|-------|-----|
| 18 | 33 | 34.5 | 123 | 4.3 |
| 20 | 36.5 | 34.5 | 138 | 4.3 |
| 22 | 39.7 | 34.5 | 138 | 4.3 |
| 24 | 43.2 | 34.5 | 138 | 4.3 |
| 28 | 48.9 | 34.5 | 206 | 4.3 |
| 36 | 61.6 | 34.5 | 206 | 4.3 |
| 40 | 67.6 | 34.5 | 206 | 4.3 |

Finishes : F7 Black epoxy varnish (*RoHS compliance*)

| Shell size | Part Number | Short Description |
|------------|-------------|-------------------|
| 18 | VS151205 | CVB 042-18 F7 |
| 20 | VS151206 | CVB 042-20 F7 |
| 22 | VS151207 | CVB 042-22 F7 |
| 24 | VS151208 | CVB 042-24 F7 |
| 28 | VS151209 | CVB 042-28 F7 |
| 36 | VS151211 | CVB 042-36 F7 |
| 40 | VS151212 | CVB 042-40 F7 |

Finishes : F16 CCF - Black passivation (*RoHS compliance*) - conductive

| Shell size | Part Number | Short Description |
|------------|-------------|-------------------|
| 18 | VS151229 | CVB 042-18 F16 |
| 20 | VS151230 | CVB 042-20 F16 |
| 22 | VS151231 | CVB 042-22 F16 |
| 24 | VS151232 | CVB 042-24 F16 |
| 28 | VS151233 | CVB 042-28 F16 |
| 36 | VS151235 | CVB 042-36 F16 |
| 40 | VS151236 | CVB 042-40 F16 |

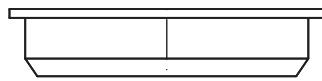
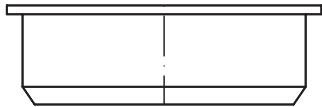
Dimensions in mm

Protective Plastic Dust Caps

Accessories For Connectors

These caps are used to protect connectors against dust.
They are not included in the connectors and have to be ordered separately.

The drawings are indicative only and they could be change according to the size



**Caps for connectors version:
shell type with ramp**

| Shell size | Part Number | Short Description |
|------------|-------------|-------------------|
| 18 | VS412105 | PCVB 043-18 |
| 20 | VS412106 | PCVB 043-20 |
| 22 | VS412107 | PCVB 043-22 |
| 24 | VS412108 | PCVB 043-24 |
| 28 | VS412109 | PCVB 043-28 |
| 36 | VS412141 | PCVB 043-36 |
| 40 | VS412142 | PCVB 043-40 |

**Caps for connector version:
shell type with coupling nut**

| Shell size | Part Number | Short Description |
|------------|-------------|-------------------|
| 18 | VS412135 | PCVB 042-18 |
| 20 | VS412136 | PCVB 042-20 |
| 22 | VS412137 | PCVB 042-22 |
| 24 | VS412138 | PCVB 042-24 |
| 28 | VS412139 | PCVB 042-28 |
| 36 | VS412145 | PCVB 042-36 |
| 40 | VS412146 | PCVB 042-40 |

**Caps for connector version:
shell type with rubber covered coupling nut**

| Shell size | Part Number | Short Description |
|------------|-------------|-------------------|
| 18 | ** | PCVBSG 042-18 |
| 20 | ** | PCVBSG 042-20 |
| 22 | ** | PCVBSG 042-22 |
| 24 | ** | PCVBSG 042-24 |
| 28 | ** | PCVBSG 042-28 |
| 36 | ** | PCVBSG 042-36 |
| 40 | ** | PCVBSG 042-40 |

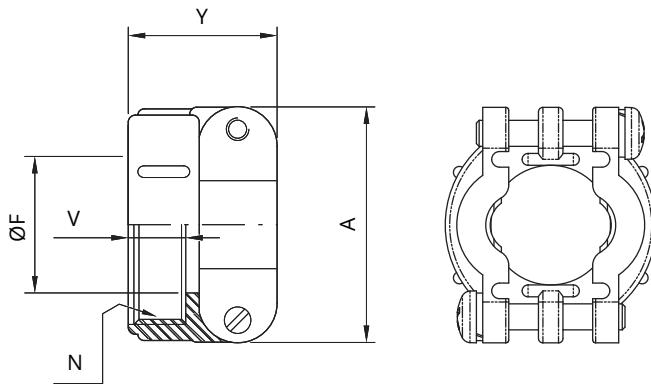
*** On request (please consult our Sales Office)*

Cable Clamp A type

Accessories For Connectors

MS 3057 - ...A Cable Clamp, general duty

These cable-clamps keep the cable in the connector axial position and guarantee an excellent mechanical strain relief. MS 3420 or RF 3420 Bushing are not waterproof and are generally supplied separately except for classes AF,F,LAF and LF connectors.



Finishes : F7 Black epoxy varnish (*RoHS compliance*)

| Shell size | Part Number | Short Description | Y max | V ± 0.2 | A max | $\emptyset F$ max cable Ø | N Thread in inches |
|------------|-------------|-------------------|-------|-------------|-------|---------------------------|--------------------|
| 18 | VS705204 | MS 3057-10A F7 | 25 | 10.5 | 31.7 | 15.8 | 1"-20 UNEF |
| 20 - 22 | VS705205 | MS 3057-12A F7 | 25 | 10.5 | 37.5 | 19 | 1" 3/16-18 UNEF |
| 24 - 28 | VS705206 | MS 3057-16A F7 | 26 | 10.5 | 43.5 | 23.8 | 1" 7/16-18 UNEF |
| 36 | VS705208 | MS 3057-24A F7 | 29.4 | 14 | 58.5 | 35 | 2"-18 UNS |
| 40 | VS705209 | MS 3057-28A F7 | 42.8 | 14 | 68.5 | 41.2 | 2"1/4-16 UN |

Finishes : F16 CCF - Black passivation (*RoHS compliance*) - conductive

| Shell size | Part Number | Short Description | Y max | V ± 0.2 | A max | $\emptyset F$ max cable Ø | N Thread in inches |
|------------|-------------|-------------------|-------|-------------|-------|---------------------------|--------------------|
| 18 | VS705224 | MS 3057-10A F16 | 25 | 10.5 | 31.7 | 15.8 | 1"-20 UNEF |
| 20 - 22 | VS705225 | MS 3057-12A F16 | 25 | 10.5 | 37.5 | 19 | 1" 3/16-18 UNEF |
| 24 - 28 | VS705226 | MS 3057-16A F16 | 26 | 10.5 | 43.5 | 23.8 | 1" 7/16-18 UNEF |
| 36 | VS705228 | MS 3057-24A F16 | 29.4 | 14 | 58.5 | 35 | 2"-18 UNS |
| 40 | VS705229 | MS 3057-28A F16 | 42.8 | 14 | 68.5 | 41.2 | 2"1/4-16 UN |

Dimensions in mm

Bushing for Cable Clamp A type

Accessories For Connectors

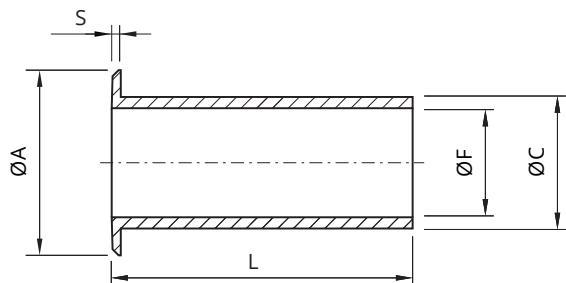
MS 3420 - ... - RF 3420 - ... Bushing

They are made of elastomeric rubber and used with cable Clamp MS3057 - ...A to protect the cable.

In the same cable-clamp it is possible to assemble more than one bushing (inside each other) so to achieve diameters much smaller than the nominal.

Available in two versions:

- MS 3420 - ... in neoprene rubber.
- RF 3420 - ... in flame resistant rubber.



Neoprene rubber

| Shell size | Part Number | Short Description | For Cable gland | ØA ±0.2 | ØF max cable Ø | ØC ±0.2 | S ±0.2 | L ±0.2 |
|------------|-------------|-------------------|-----------------|------------|-------------------|------------|-----------|-----------|
| 18 | VS705404 | MS 3420-10 | MS 3057-10A | 22 | 14.2 | 15.6 | 1.6 | 60.3 |
| 20 - 22 | VS705405 | MS 3420-12 | MS 3057-12A | 27 | 15.8 | 18.8 | 1.6 | 57.1 |
| 24 - 28 | VS705406 | MS 3420-16 | MS 3057-16A | 33.3 | 19 | 23.6 | 1.6 | 53.9 |
| 36 | VS705408 | MS 3420-24 | MS 3057-24A | 46.9 | 31.7 | 34.8 | 1.6 | 47.6 |
| 40 | VS705409 | MS 3420-28 | MS 3057-28A | 52.9 | 34.9 | 41 | 1.6 | 44.4 |

On request: V = Fluoride Rubber S = Silicone Rubber

Dimensions in mm

Cable Clamp C type

Accessories For Connectors

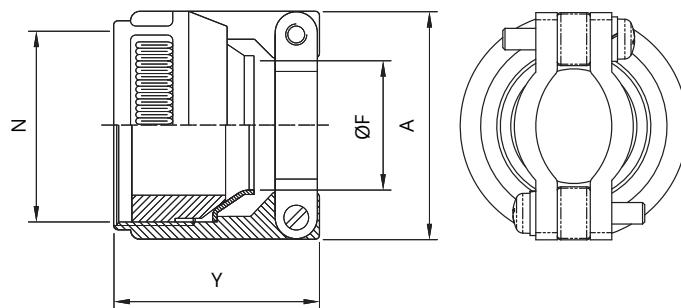
IP67

MS 3057 - ...C - RF 3057 - ...C water tight Cable Clamp

Besides guaranteeing an excellent mechanical strain relief keeping the cable in the centre of the connector, these cable-clamps are provided with an internal conical rubber bushing ensuring waterproof protection. The screws in stainless steel have elastic rose-cut antivibration head.

Available in two versions:

- MS 3057 - ...C with gasket in neoprene rubber.
- RF 3057 - ...C with gasket in flame resistant rubber.



| Shell size | Y max | A max | ØF cable min | N Thread max | in inches |
|------------|----------|----------|-----------------|-----------------|-----------------|
| 18 | 35 | 32 | 9.6 | 15.9 | 1"-20 UNEF |
| 20 - 22 | 35.7 | 37.5 | 11.3 | 19 | 1" 3/16-18 UNEF |
| 24 - 28 | 39 | 43.5 | 15.5 | 23.8 | 1" 7/16-18 UNEF |
| 36 | 52 | 58 | 25.4 | 35 | 2"-18 UNS |
| 40 | 52.3 | 63.5 | 30 | 41.3 | 2"1/4-16 UN |

Finishes : F7 Black epoxy varnish (RoHS compliance)

| Shell size | Part Number neoprene rubber | Short Description neoprene rubber | Part Number flame resistant rubber | Short Description flame resistant rubber |
|------------|--------------------------------|--------------------------------------|---------------------------------------|---|
| 18 | VS705254 | MS 3057-10C F7 | VS705304 | RF 3057-10C F7 |
| 20 - 22 | VS705255 | MS 3057-12C F7 | VS705305 | RF 3057-12C F7 |
| 24 - 28 | VS705256 | MS 3057-16C F7 | VS705306 | RF 3057-16C F7 |
| 36 | VS705258 | MS 3057-24C F7 | VS705308 | RF 3057-24C F7 |
| 40 | VS705259 | MS 3057-28C F7 | VS705309 | RF 3057-28C F7 |

Finishes : F16 CCF - Black passivation (RoHS compliance) - conductive

| Shell size | Part Number neoprene rubber | Short Description neoprene rubber | Part Number flame resistant rubber | Short Description flame resistant rubber |
|------------|--------------------------------|--------------------------------------|---------------------------------------|---|
| 18 | VS705274 | MS 3057-10C F16 | VS705324 | RF 3057-10C F16 |
| 20 - 22 | VS705275 | MS 3057-12C F16 | VS705325 | RF 3057-12C F16 |
| 24 - 28 | VS705276 | MS 3057-16C F16 | VS705326 | RF 3057-16C F16 |
| 36 | VS705278 | MS 3057-24C F16 | VS705328 | RF 3057-24C F16 |
| 40 | VS705279 | MS 3057-28C F16 | VS705329 | RF 3057-28C F16 |

Gasket on request: V = Fluoride Rubber - S = Silicone Rubber

Dimensions in mm

Bushing for Cable Clamp C type

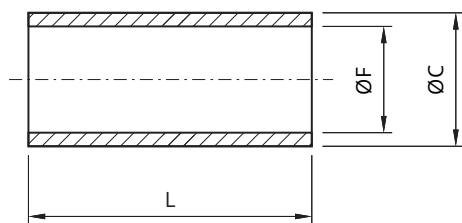
Accessories For Connectors

MS 3420 - ...A - RF 3420 - ...A Bushing

They are made of elastomeric rubber and used with cable clamp MS 3057 - ...C to protect the cable. They allow using cables with diameter smaller than the nominal.

Available in two versions:

- MS 3420 - ...A in neoprene rubber.
- RF 3420 - ...A in flame resistant rubber (on request).



Neoprene rubber

| Shell size | Part Number | Short Description | For Cable gland | ØF max cable Ø | ØC ±0.2 | L ±0.2 |
|------------|-------------|-------------------|-----------------|----------------|---------|--------|
| 18 | VS705424 | MS 3420-10A | MS 3057-10C | 11.1 | 15.8 | 50.8 |
| 20 - 22 | VS705425 | MS 3420-12A | MS 3057-12C | 13.7 | 18.9 | 50.8 |
| 24 - 28 | VS705426 | MS 3420-16A | MS 3057-16C | 19 | 23.7 | 50.8 |
| 36 | VS705428 | MS 3420-24A | MS 3057-24C | 28.5 | 35 | 50.8 |
| 40 | VS705429 | MS 3420-28A | MS 3057-28C | 31.8 | 41.1 | 50.8 |

Flame resistant rubber

| Shell size | Part Number | Short Description | For Cable gland | ØF max cable Ø | ØC ±0.2 | L ±0.2 |
|------------|-------------|-------------------|-----------------|----------------|---------|--------|
| 18 | VS705434 | RF 3420-10A | RF 3057-10C | 11.1 | 15.8 | 50.8 |
| 20 - 22 | VS705435 | RF 3420-12A | RF 3057-12C | 13.7 | 18.9 | 50.8 |
| 24 - 28 | VS705436 | RF 3420-16A | RF 3057-16C | 19 | 23.7 | 50.8 |
| 36 | VS705438 | RF 3420-24A | RF 3057-24C | 28.5 | 35 | 50.8 |
| 40 | VS705439 | RF 3420-28A | RF 3057-28C | 31.8 | 41.1 | 50.8 |

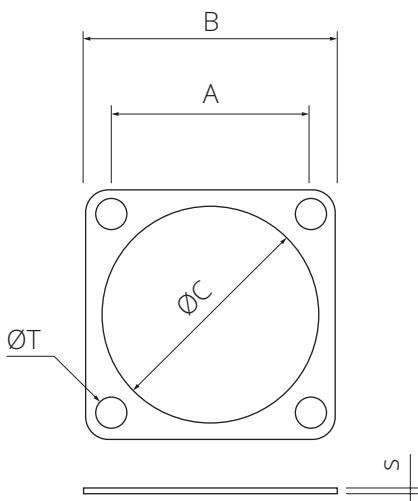
On request: V = Fluoride Rubber S = Silicone Rubber

Dimensions in mm

Connector Mounting Gaskets

Accessories For Connectors

These gaskets are used to make panel connectors water resistant.



Gaskets for rear mounting panel connectors (03 - 030 - 038 connectors)

Gasket C216: non conductive chloroprene rubber gasket (IP67 protection)

| Shell size | Part Number | Short Description | A Non conductive | B -0 +0.4 | ØC ±0.3 | S C216 | ØT ±0.3 |
|------------|-------------|-------------------|---------------------|--------------|------------|-----------|------------|
| 18 | VS412404 | C216-18 | 27 | 35 | 30.8 | 0.8±0.3 | 4.2 |
| 20 | VS412405 | C216-20 | 29.4 | 38.1 | 34.2 | 0.8±0.3 | 4.2 |
| 22 | VS412406 | C216-22 | 31.8 | 41.2 | 37.4 | 0.8±0.3 | 4.2 |
| 24 | VS412407 | C216-24 | 34.9 | 44.5 | 40.9 | 0.8±0.3 | 4.2 |
| 28 | VS412408 | C216-28 | 39.7 | 50.8 | 46.7 | 0.8±0.3 | 5.1 |
| 36 | VS412410 | C216-36 | 49.2 | 63.5 | 59.6 | 0.8±0.3 | 5.1 |
| 40 | VS412411 | C216-40 | 55.5 | 69.9 | 65.5 | 0.8±0.3 | 5.1 |

Gaskets C216G3: conductive silicone gaskets with embedded metal screen. These gaskets guarantee watertightness and RFI shielding

- Elastomer binder: Silicone
- Conductive filler: Nickel Graphite
- Color: Gray
- Operating Temperature range: -60 °C ÷ +220 °C
- Flammability Rating: UL 94-V0
- Salt spray test > 96 h (consult our sales office for details)
- IP67 protection (EN 60529)

| Shell size | Part Number | Short Description | A Conductive | B -0 +0.4 | ØC ±0.3 | S C216G3 | ØT ±0.3 |
|------------|-------------|-------------------|-----------------|--------------|------------|-------------|------------|
| 18 | VS412434 | C216G3-18 | 27 | 35 | 30.8 | 0.8±0.2 | 4.2 |
| 20 | VS412435 | C216G3-20 | 29.4 | 38.1 | 34.2 | 0.8±0.2 | 4.2 |
| 22 | VS412436 | C216G3-22 | 31.8 | 41.2 | 37.4 | 0.8±0.2 | 4.2 |
| 24 | VS412437 | C216G3-24 | 34.9 | 44.5 | 40.9 | 0.8±0.2 | 4.2 |
| 28 | VS412438 | C216G3-28 | 39.7 | 50.8 | 46.7 | 0.8±0.2 | 5.1 |
| 32 | VS412439 | C216G3-32 | 44.5 | 57 | 53.4 | 0.8±0.2 | 5.1 |
| 36 | VS412440 | C216G3-36 | 49.2 | 63.5 | 59.6 | 0.8±0.2 | 5.1 |
| 40 | VS412441 | C216G3-40 | 55.5 | 69.9 | 65.5 | 0.8±0.2 | 5.1 |

Dimensions in mm

Contact KT Crimp tools



For the instructions concerning assembly and crimping of contacts please consult the appropriate manuals.

We recommend to respect the following general rules:

- always use the tools recommended by Van-System's catalogue or manuals
- apply the suggested norms for tool maintenance and calibration
- always use tool to close retention spring when crimping the contacts size 12

DO NOT USE ALTERNATIVE GREASES OR OILS which could damage the insert and affect the functionality of the connector.

| Part Number | Short Description | Tool |
|-------------|-------------------|---|
| VS610002 | CRT-784/1 | Crimping Tool |
| VS610003 | CRT-HT45 | Crimping Tool |
| VS610010 | CDI-ME2 | Crimping Die |
| VS610016 | LOC-KVBS-784 | Locator |
| VS610042 | KTES-784-8 | Removal Tool |
| VS610041 | KTES-784-12 | Removal Tool |
| VS610040 | KTES-784-16 | Removal Tool |
| VS610043 | KTRS-784-12 | Tool To Close Retention Spring |
| VS610056 | CDI-VS61138 | Crimping Die (for KT485 contacts size 8-38) |

| Contact size | Short Description | mm ² section | AWG section | Manual crimp tool | Pneumatic crimp tool | Locator /Die | Removal tool | Tool To Close Retention Spring | Stripping length mm |
|--------------|-------------------|-------------------------|-------------|-------------------|----------------------|--------------|--------------|--------------------------------|---------------------|
| 16 | KT485 16-13P/S** | 0.15÷0.6 | 26÷20 | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-16 | - | 9.5 |
| 16 | KT485 16-12P/S | 0.5÷0.75 | - | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-16 | - | 9.5 |
| 16 | KT485 16-17P/S | 0.5÷1.5 | 20÷16 | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-16 | - | 9.5 |
| 16 | KT485 16-19P/S | 1.5÷2.5 | 16÷14 | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-16 | - | 9.5 |
| 16 | KT485 16-20P/S | 1÷2 | 18÷14 | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-16 | - | 9.5 |
| 16 | KT485 16-26P/S | 2.5÷3 | - | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-16 | - | 9.5 |
| 12 | KT485 12-12P/S | 0.6 | 20 | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-12 | KTRS-784-12 | 9.5 |
| 12 | KT485 12-20P/S | 1÷2 | 18÷14 | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-12 | KTRS-784-12 | 9.5 |
| 12 | KT485 12-26P/S** | 2.5÷3 | - | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-12 | KTRS-784-12 | 9.5 |
| 12 | KT485 12-30P/S | 4 | - | CRT-784/1 | PCT-784 | LOC-KVBS-784 | KTES-784-12 | KTRS-784-12 | 9.5 |
| 12 | KT485 12-38P/S | 6 | - | CRT-784/1 | PCT-784A | LOC-KVBS-784 | KTES-784-12 | KTRS-784-12 | 9.5 |
| 8 | KT485 8-15P/S | 1 | - | CRT-HT45 | - | ** | KTES-784-8 | - | 12 |
| 8 | KT485 8-22P/S | 2.5 | - | CRT-HT45 | - | CDI-VS61137 | ** | - | 13.5 |
| 8 | KT485 8-30P/S** | 4 | - | CRT-HT45 | - | CDI-VS61138 | KTES-784-8 | - | 13.5 |
| 8 | KT485 8-38P/S | 6 | - | CRT-HT45 | - | CDI-VS61138 | KTES-784-8 | - | 13.5 |
| 8 | KT485 8-50P/S** | 10 | - | CRT-HT45 | - | CDI-ME2 | KTES-784-8 | - | 13.5 |

** On request (please consult our Sales Office)

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Safety

Information regarding the use of the product within recommended safety limits

To use the connectors described in this catalogue according to the necessary safety requirements we suggest you apply the following criteria:

- use the connectors and connected cables within their electrical and environmental limits
- follow the characteristics of each version (shell, class and type of strain relief) and carefully choose the appropriate connector for the required use
- make sure to respect the procedures regarding the correct assembly of connectors and the crimping of contacts
- any connector damaged during shipment, storage, assembly or use should be replaced
- never uncouple the connectors when under power
- always protect the parts against shock when the circuit is under power
- always check the circuit before putting it under power
- consult Radiall Italia Srl if in doubt
- the user must take final responsibility for electrical safety Radiall Italia Srl reserves the right to amend the specifications of this catalogue without issuing prior notice.

For the instructions concerning assembly and crimping of contacts please consult the appropriate tools manuals.

We recommend to respect the following general rules:

- to be used always the tools recommended by Radiall Italia Srl's catalogue or manuals
- to be applied the suggested norms for tool maintenance and calibration

DO NOT USE ALTERNATIVE GREASES OR OILS which could damage the insert and affect the functionality of the connector. Radiall Italia Srl reserves the right to amend the specifications of this catalogue without issuing prior notice.

The data defined in this document are given as an indication. In the effort to improve our products, we reserve the right to make any change judged necessary.



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