



La soluzione decisiva per tutti i problemi di connessione

Negli ultimi anni, la connessione elettrica è divenuta una delle fasi più importanti e insieme critiche nella progettazione e nella realizzazione delle apparecchiature da utilizzare nei diversi campi di applicazione: dall'automazione alla ricerca, dal trasporto allo spettacolo.

Fondamentale per la riuscita realizzazione – e per il successo – di gran parte dei prodotti ad alimentazione elettrica è quindi l'utilizzo di connettori elettrici che, oltre ad avere caratteristiche di qualità e affidabilità, soddisfino i requisiti specifici dei diversi campi applicativi.

Proprio per rispondere alle particolari necessità delle applicazioni specifiche, la Van-System, che dal 1985 produce connettori derivati dalle norme MIL-DTL-5015 con innesto a vite o a baionetta, si è specializzata nella progettazione e produzione di prodotti modificati rispetto alla norma originale. Infatti, alla serie illustrata nel catalogo si possono apportare numerose modifiche riguardanti:

- materiali e trattamenti dei componenti del connettore
- isolanti con disposizioni particolari
- contatti speciali
- adattatori e sistemi di ritenzione del cavo adattabili a qualsiasi esigenza.

La Van-System offre le migliori soluzioni di connessione attraverso un servizio globale che prevede:

- personale tecnico di vendita in grado di raccogliere fin dal primo contatto i dati tecnici occorrenti
- sviluppo proposte e loro successiva elaborazione con fornitura di specifiche, disegni, prototipi, pre-serie
- produzione della fornitura richiesta con i più moderni mezzi tecnologici e i migliori standard di qualità
- assistenza di customer service pre e post-vendita.

Elemento distintivo della Van-System è una struttura organizzativa estremamente agile, in grado di soddisfare velocemente le esigenze individuali del cliente e di provvedere alla consegna rapida dei quantitativi richiesti.

MADE IN ITALY

I connettori VanSystem sono progettati e realizzati in Italia.

Definitive interconnect devices

In the last few years, electrical connection has become one of the most important and critical part in the process of designing and manufacturing equipments to be used in several application fields: from automation to research, from transport to entertainment.

Electrical connectors play a vital role in the successful design and functionality of most electric products, not only due to their quality and reliability but also due to their specific design characteristics.

Since 1985 Van-System manufactures threaded and bayonet connectors derived from MIL-DTL-5015 specs. For several years now, we have specialised in designing and producing connectors modified from the original specification as well, in order to satisfy specific application requirements. It is therefore possible to apply various changes to the series shown in this catalogues, concerning:

- material and finish of the connector components
- inserts with customised arrangements
- special contacts
- adapters and cable retention systems suitable for any requirement.

Van-System offers the best connection solutions together with a global service thanks to:

- technical sale staff able to immediately gather all necessary technical data
- development from the initial requirements through sequential stages complete with specifications, drawings, prototypes and pre-series
- the latest technology and the highest standard of quality
- customer service before and after sale.

An extremely capable organizational structure allows Van-System to immediately answer the demands of each client and quickly deliver the requested amounts of goods.

MADE IN ITALY

VanSystem connectors are Italian design and manufactured in Italy.



Dal 2015, Van System è un marchio Radiall; leader globale nella progettazione, sviluppo e produzione di soluzioni di interconnessione innovative.

Sede centrale a Parigi, Francia, Radiall è un fornitore affidabile di prodotti all'avanguardia la cui presenza globale comprende nove stabilimenti e una rete di vendita internazionale. In qualità di fornitore di marchi leader, garantiamo una copertura a livello mondiale con il supporto locale.

Since 2015, Van-System is a Radiall brand; a global leader in the design, development and manufacturing of innovative interconnect solutions.

Headquarters in Paris, France, Radiall is a trusted supplier of leading edge products whose global presence includes nine plants and an international sales network. As a trusted supplier to leading brands, Radiall provide worldwide coverage with local support.

RAILWAY SOLUTIONS

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derived from MIL-DTL-5015 and VG 95234



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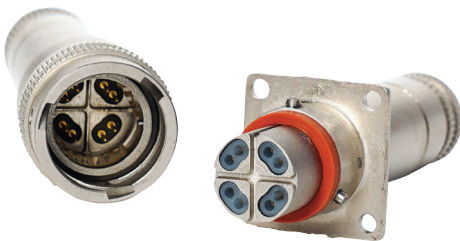
Ethernet, data transmission, Coax,
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SPIEGAZIONE SIGLA

P/N EXPLANATION

Materiale isolante -: mescola cloroprenica V: mescola fluorurata S: mescola siliconica RF: mescola resistente al fuoco	RF	Insulating material -: Chloroprene rubber V: Fluoride rubber S: Silicone rubber RF: Fire resistant rubber
Codice serie CVBS: con protezione rampe di innesto CVBSG: con ricopertura isolante esterna GVJ: sovradimensionato per impiego gravoso CVBR: con grani rotanti - per applicazioni critiche	CVBS	Series code CVBS: with protected mating ramps CVBSG: with external insulated coating GVJ: oversized for heavy use CVBR: roller studs - for harsh applications
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Esempio Sigla

RF CVBS 06 DA 20-27 S X PG16 CR CD5 F7

P/N Sample

^(*) = (RoHS)

SPIEGAZIONE SIGLA

Guscio con rampa

Guscio 00	fronte pannello, predisposizione accessori (per ordini con acc.)
Guscio 020	fronte pannello, predisposizione accessori (per ordini senza acc.)
Guscio 02	fronte pannello, senza predisposizione accessori
Guscio 03	retro pannello, senza predisposizione accessori
Guscio 030	retro pannello, predisposizione accessori
Guscio 038	retro pannello, predisposizione accessori a 90°
Guscio 07	retro pannello con fissaggio a ghiera, senza predisposizione accessori
Guscio 070	retro pannello con fissaggio a ghiera, con predisposizione accessori
Guscio 078	retro pannello con fissaggio a ghiera, con predisposizione accessori a 90°
Guscio 01	giunti volanti, predisposizione accessori
Guscio TB	connettore passante da paratia
Guscio 05	falso connettore da pannello

Guscio con ghiera (GG = ghiera ricoperta in gomma)

Guscio 06	volante, per uscita cavo dritta
Guscio 061	volante, per uscita cavo dritta, ricoperta in gomma (labbro accorciato)
Guscio 96	volante, per uscita cavo dritta e pettine di massa di schermatura
Guscio 08	volante, per uscita cavo 90°
Guscio 081	volante, per uscita cavo 90°, ricoperta in gomma (labbro accorciato)
Guscio 98	volante, per uscita cavo 90° e pettine di massa di schermatura
Guscio 026	fronte pannello
(8 = 90°)	(9 = pettine di schermatura) (65 = ghiera d'innesto Heavy Duty)

Classe connettore

con guarnizione tenuta con grommet L = prolunga lunga

A - DA - RA	prolunga per serracavo MS3057 tipo A o C
LA - LDA - LRA	prolunga lunga per serracavo MS3057 tipo A o C
AF - F	prolunga con serracavo MS3057..A e manicotto S3420..
LAF - LF	prolunga lunga con serracavo MS3057..A e manicotto MS3420..
AC - ACF	prolunga con serracavo MS3057..C
LAC - LACF	prolunga lunga con serracavo MS3057..C
DA...PG-RA...PG	prolunga con filetto interno Pg
DA...M-RA...M	prolunga con filetto interno Metrico
DA...FS-RA...FS	prolunga e raccordo per tubo in gomma telata UNI4883
DA...MTG-RA...MTG	prolunga e raccordo con ghiera per tubo in gomma telata UNI4883
DAM - RAM	prolunga con serracavo ricoperto in gomma (solo per serie CVBSG)
R	prolunga per cavi singoli (senza ritenzione)
AG - G	prolunga per guaine termorestringenti
G2	prolunga con ghiera per guaine termorestringenti
ASB1 - SB1	prolunga per cavi sottogomma schermati, con serracavo MS3057..C
GV	prolunga per il colleg. di calza di scherm. e attacco guaina termorestr.
SB	prolunga con ghiera per il colleg. di calza di scherm. e attacco guaina termor.
AMK - MK	prolunga con molla toroidale per schermo cavi o guaine armate
AWN - WN	prolunga con molla toroidale per ritenzione meccanica

Serie GVJ (solo classe DA - RA, AC - ACF, DA...PG/M - RA...PG/M, DAM - RAM)

Serie CVBSG (solo classe DA...PG/M/GAS - RA...PG/M/GAS, DA...FS - RA...FS, DA...MTG - RA...MTG, AMK - MK)

P/N EXPLANATION

Shell with ramp

Shell 00	front mounting receptacle connector able to accept rear accessories (ordered with accessories)
Shell 020	front mounting receptacle connector able to accept rear accessories (ordered without accessories)
Shell 02	front mounting receptacle connector unable to accept rear accessories
Shell 03	rear mounting receptacle connector unable to accept rear accessories
Shell 030	rear mounting receptacle connector with thread to accept backshells
Shell 038	rear mounting receptacle connector with thread to accept backshells, with 90° elbow
Shell 07	rear mounting receptacle connector unable to accept rear accessories. Mounting is made by a front coupling-nut
Shell 070	rear mounting receptacle connector with thread to accept backshells. Mounting is made by a hexagonal coupling-nut
Shell 078	rear mounting receptacle connector with thread to accept backshells with 90° elbow. Mounting is made by a hexagonal coupling-nut
Shell 01	cable connecting plug able to accept rear accessories.
Shell TB	through-Bulkhead connector
Shell 05	dummy receptacle connector

Shell with coupling nuts (GG = nut rubber covered)

Shell 06	plug connector, for straight backshell
Shell 061	plug connector, for straight backshell, coupling nut rubber covered (short version)
Shell 96	plug connector, provided with grounding finger to guarantee shielding - with straight backshell
Shell 08	plug connector, with 90° elbow
Shell 081	plug connector, with 90° elbow, coupling nut rubber covered (short version)
Shell 98	plug connector, with 90° elbow, with grounding finger to guarantee shielding
Shell 026	front mounting receptacle connector
(8 = 90°)	(9 = grounding finger) (65 = Heavy Duty coupling-nut)

Connector class

waterproof O-ring with grommet L = long backshell

A - DA - RA	backshell having an external thread suitable for MS3057...A or C type cable-clamps
LA - LDA - LRA	long backshell having an external thread suitable for MS3057...A or C type cable-clamps
AF - F	connector provided with backshell, MS 3057...A type cable clamp and bushing MS 3420...
LAF - LF	connector provided with long backshell, MS 3057...A type cable-clamp and bushing MS 3420...
AC - ACF	connector provided with backshell, waterproof O-ring and MS 3057...C type cable-clamp.
LAC - LACF	connector provided with long backshell, water proof O-ring and MS 3057...C type cable-clamp.
DA...PG-RA...PG	provided with an internal PG thread
DA...M-RA...M	provided with an internal Metric thread
DA...FS-RA...FS	provided with a special adapter for UNI4883 rubber conduits.
DA...MTG-RA...MTG	provided with a special adapter for UNI4883 rubber conduits, with nut
DAM - RAM	provided with rubber coated backshell and strain relief. (CVBSG series only)
R	suitable to connect single wires when strain relief is not necessary
AG - G	suitable for heat shrink tubing applications
G2	suitable for heat shrink tubing applications, with nut
ASB1 - SB1	for multicore jacketed shielded cables., provided with MS 3057...C type cable-clamp
GV	provided with special backshell for shield hose and heat shrink tubing termination
SB	provided with special backshell for shield hose and heat shrink tubing termination, with nut
AMK - MK	provided with gasket and an iris spring connected to one another by an internal ring. The iris spring is used to connect multicore jacketed cables or jacketed hoses.
AWN - WN	provided with gasket and an iris spring connected to one another, to guarantee an excellent mechanical strain relief and water tightness.

GVJ Series (Class DA - RA, AC - ACF, DA...PG/M - RA...PG/M, DAM - RAM only)

CVBSG Series (Class DA...PG/M/GAS - RA...PG/M/GAS, DA...FS - RA...FS, DA...MTG - RA...MTG, AMK - MK only)

SERIE RF CVBS

Questa serie, direttamente derivata dalle norme Mil-DTL-5015 e VG95234, è ormai diventata uno standard molto diffuso sulla maggioranza delle applicazioni di connessioni a bordo di veicoli rotabili.

Il suo successo è dovuto principalmente all'accoppiamento a baionetta costituito da tre rampe equidistanti ricavate sull'esterno del connettore da pannello e da altrettanti grani in acciaio inossidabile fissati all'interno della ghiera del connettore volante.

Il punto di innesto alla fine della rampa è protetto da un rullino anch'esso in acciaio inossidabile che aumenta il numero delle manovre possibili.

RF CVBS SERIES

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

Its success is mainly due to the bayonet coupling system composed of three ramps machined on the external side of the receptacle connector and 3 stainless steel studs mounted inside the plug connector's coupling nut.

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



Caratteristiche principali:

- Rapidità (una rotazione della ghiera di 120° è sufficiente) e affidabilità (l'avvenuto innesto è percepibile in modo visibile, uditivo e tattile) della manovra d'accoppiamento.
- Resistenza a vibrazioni e urti.
- Tenuta stagna di grado IP68 (a connettore accoppiato e cablato utilizzando i corretti accessori)
- E' realizzato in molteplici versioni di guscio come connettore da pannello (con montaggio frontale o da retro) o connettore volante (con uscita cavo dritta o a 90°) e con una vasta gamma di isolanti (con combinazioni di contatti di varie misure) da 1 a 201 poli.
- Sono disponibili accessori che rendono i connettori di questa serie utilizzabili con cavi e guaine di protezione di ogni tipo e per ogni esigenza di schermatura.
- I contatti sono a pinzare adatti a cavi di tutte le sezioni.

Main characteristics:

- *Fast and reliable coupling (coupling-nut rotation of 120° only and mating is audible, visible and tactile)*
- *Vibration and impact resistance*
- *IP68 waterproof protection (when connectors are mated and harnessed by using the correct accessories)*
- *Manufactured in several shell versions as panel connectors (with front or rear mounting) or plug connectors (with straight backshell or 90°) and a wide range of insulators (with combination of different size contacts) from 1 to 201 poles.*
- *Accessories for all types of cables and shielding protection hoses are also available.*
- *Crimp contacts are suitable for wires of all sections.*



SERIE RF CVBSG

La serie CVBS è stata modificata per realizzare dei connettori antinfortunistici. I gusci dei connettori volanti sono infatti ricoperti in materiale isolante.

Sempre in materiale isolante o con ricopertura isolante esterna sono gli accessori per il collegamento ai cavi.



RF CVBSG SERIES

CVBS series has been modified to design safety connectors. The shells of plug connectors have been rubber jacketed.

Accessories in rubber material or with rubber protection are also available for cable retention.



Caratteristiche della serie:

- Caratteristiche generali di massima come per la serie RFCVBS.
- Il connettore da pannello standard è fornito con fori di fissaggio svasati per rendere più agevole l'accoppiamento con la ghiera della parte volante ricoperta in gomma.
- Ampia dotazione di serracavi isolati per cavi multipolari e raccordi per guaine tubolari in gomma di protezione per cavi singoli.

Main characteristics:

- *Main characteristics like for RF CVBS series*
- *Standard panel receptacle supplied with countersunk holes for easy mating with rubber jacketed nuts.*
- *Wide range of insulating cable-clamps for multicore cables and conduit adapters for single wires.*



SERIE RF GVJ

Questi connettori uniscono alla già grande attitudine propria dell'accoppiamento a baionetta per l'utilizzo nelle condizioni gravose tipiche dell'ambiente ferroviario, una ancora maggiore robustezza e affidabilità.



RF GVJ SERIES

This series benefits of the bayonet coupling itself suitable for the harsh conditions typical in railway applications and of more robust and reliable features obtained by the following modifications.



Caratteristiche della serie:

- gli spessori del guscio sono più grandi per garantire maggiore resistenza agli urti e sollecitazioni gravose.
- le ghiera di accoppiamento è ricoperta in gomma anche nella serie standard Inoltre essa è dotata di grani del tipo a cuscinetto rotante per un accoppiamento più facile e un maggior numero di possibili manovre grazie a un minor consumo delle rampe d'innesto.
- il sistema di polarizzazione è costituito da cinque chiavette (una più grande e quattro più piccole).
- le dimensioni sono maggiorate per alloggiare isolanti con contatti più numerosi (a parità di tensione di lavoro) o di misura maggiore (per correnti più elevate).
- sono disponibili una vasta gamma di raccordi posteriori e accessori per ogni tipo di cavo o guaina di protezione.

Main characteristics:

- *Bigger shell thicknesses to guarantee resistance against impact and harsh environment.*
- *Rubber-jacketed coupling nut also in the standard series. The roller studs make the coupling easier and allow a bigger number of operations due to a lower wear of the coupling ramps.*
- *Five key polarization system (a big key and four smaller).*
- *Increased dimensions to install insulators with bigger number of contacts (on equal service rating) or bigger contact sizes (for higher voltage).*
- *Wide range of rear accessories and adapters for all types of cables and protections available.*



Caratteristiche generali per le applicazioni ferroviarie

General characteristics for railway application

GUSCI

Sono disponibili in molteplici versioni adatte a ogni applicazione e costruiti in vari materiali e trattamenti:

- lega di Alluminio con vari tipi di trattamento di protezione conformi alle direttive RoHS.
- altri materiali da scegliere in base all'applicazione, come Acciaio inossidabile o Bronzo.



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, bronze and other materials to be chosen according to the application.

ISOLANTI

Van-System è in grado di fornire connettori con isolanti per utilizzazioni a bassa o alta tensione con disposizioni da 1 a 201 contatti. Tutte le parti non metalliche sono realizzate in materiali conformi alla norma EN 45545-2.



INSULATORS

V-S is able to offer connectors with insulators suitable for low or high voltage with lay-out from 1 to 201 contacts. All non metal parts are produced with materials in accordance with EN 45545-2 specification.

CONTATTI

Sono del tipo a pinzare e ricavati per tornitura in leghe di rame e protetti con trattamento di doratura o di argentatura.

Sono disponibili anche contatti speciali di potenza, di segnale o schermati per alta frequenza.



CONTACTS

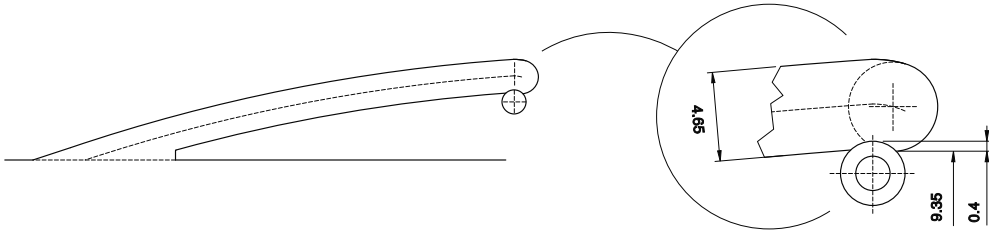
Crimp contacts machined from copper alloys and finished with gold or silver platings. Special power contacts, for signal or shielding are also available.

SERIE CVBS

È nata per fornire un servizio continuo ed affidabile nelle condizioni di utilizzo più difficili.

La baionetta è infatti protetta da un grano di acciaio inossidabile. L'accoppiamento è realizzato per mezzo di una molla a sella situata sotto la ghiera del connettore volante e la guarnizione frontale per la tenuta stagna ha quindi un funzionamento dinamico.

In questa serie lo scatto di innesto è dato da un salto di fine rampa di 0,4 mm.



Rampa CVBS e particolare

CVBS ramp and detail

CVBS SERIES

Generated to supply a continuous and reliable service in the harshest use conditions.

The bayonet is protected by a stainless steel stud. The connector coupling is obtained by a wave washer installed under the plug connector coupling nut therefore the waterproof front gasket works dynamically.

In this series the locking is obtained by a ramp end drop of 0.4 mm.

SERIE CVBR

È stata progettata per ottenere un prodotto ancora più resistente alle applicazioni più gravose.

I grani della ghiera d'innesto del connettore volante sono del tipo a cuscinetto rotante, ne risulta un accoppiamento più facile ed un maggior numero di manovre possibili grazie ad un minor consumo delle rampe d'innesto.

La serie CVBR è fornibile nelle grandezze dal 18 al 40.

CVBR SERIES

Designed to build a product even more suitable for the harshest applications.

The studs of the plug connector coupling nut are roller-stud version. This means an easier coupling and a higher number of operations due to a lower wear of the coupling ramps.

CVBR series can be supplied from size 18 to size 40.



Grano a cuscinetto

Roller stud

**SERIE CVBS – CVBSG - GVJ
CONNETTORI CIRCOLARI
CON ACCOPPIAMENTO A BAIONETTA
PER UTILIZZO FERROVIARIO**

Questi connettori sono particolarmente adatti all'utilizzo in campo ferroviario.

Il sistema a baionetta è molto resistente a vibrazioni e urti e l'ampia gamma di misure di guscio, di disposizioni di isolante e di accessori offre una soluzione affidabile e sicura per ogni problema di connessione.

**CVBS-CVBSG-GVJ SERIES
BAYONET CIRCULAR CONNECTORS
FOR RAILWAY APPLICATIONS**

These connectors are particularly suitable for applications in the rail transportation field.

The bayonet locking coupling system is extremely resistant to vibrations and shocks and the wide range of shell sizes and contacts arrangements offers a reliable solution to any connection requirement.

Caratteristiche	Vantaggi rispetto alla serie con innesto a vite
Rotazione di solo 120° per completare la manovra di accoppiamento	Innesto e disinnesto rapidi
Lo scatto di avvenuto innesto è non solo visibile ed udibile ma anche rilevabile in modo tattile	Sicurezza del completamento della manovra di accoppiamento e quindi maggiore affidabilità
La baionetta è protetta da un grano di acciaio inossidabile	I connettori possono supportare numerosi cicli di accoppiamento
La guarnizione frontale per la tenuta stagna ha un funzionamento dinamico	Sicurezza di tenuta stagna IP68 dei connettori accoppiati (resistente ad immersione fino a 10 metri per 12 ore)
Gusci circolari e disposizioni isolanti con contatti ad alta densità	Ingombri ridotti rispetto alle versioni rettangolari

Characteristic	Advantages against other coupling systems
To mate connectors rotate coupling-nut 120° only	Fast coupling and uncoupling
Audible, visible and tactile mating	Security of coupling is guaranteed and consequently improved reliability
Bayonet ramps protected by stainless steel studs	Higher number of mating cycles
Connectors coupling sealed by dynamic front gasket	IP68 protection degree (waterproof to 10 meters 12 hours)
Circular shells and high density contacts arrangements	Reduced dimensions against rectangular versions

Inserti / Inserts

Codice materiale Material-Code ¹⁾	- (standard)	RF	S	V	KVBS
Materiale Material	chloroprene	fire resistant	silicone	fluoride	thermoplastic
Temperatura operat. Operat. Temperature	-55 ÷ + 125°C	-55 ÷ + 150°C	-55 ÷ + 200°C	-25 ÷ + 200°C	-55 ÷ + 125°C
Fire protection class UL94	V0	V0	V0	V0	V0
Fire protection class EN45545-2	-	HL3 / R22 - R23	-	-	HL3 / R22 - R23

¹⁾ Halogen-free

Guscio / Shell (CVBS/CVBR/GVJ/KVBS series)

Codice trattamento Surface Treatment Code ¹⁾	F16	F4	F7	F5
Materiale connettore Shell-material	Lega di alluminio / Aluminium alloy			
Trattamento superficiale / Surface finish	CCF cadmiun free		epoxy-polyurethan	electroless nickel
Tipologia di superficie / Type of surface	passivata / passivated		verniciata / varnished	-
Colore superficiale / Surface colour	black	green	black	-
Spessore trattamento superficiale Thickness of surface finish	12 - 15 µm	12 - 15 µm	12 - 15 µm	12 - 15 µm
Rohs conformity	yes	no	yes	yes
Corrosion resistance	500 h	500 h	500 h	48 h
Temperatura operat. / Operat. Temperature ¹⁾	-55°C ÷ + 125°C	-55°C ÷ + 125°C	-55°C ÷ + 200°C	-55°C ÷ + 200°C
Conduttività elettrica / Electrical conductivity	buona / good	buona / good	non-conductive	buona / good
Shock and vibrations tests according EN 61373	Cat. 1 body mounted		Cat. 2 bogie mounted	
IP protection degree (EN 60529)	IP68 (waterproof to 10 meters - 12 hours)			

¹⁾ per utilizzi fino a 200°C consultare i nostri uffici commerciali / for use up to 200°C, consult our Commercial Office

REQUISITI GENERALI

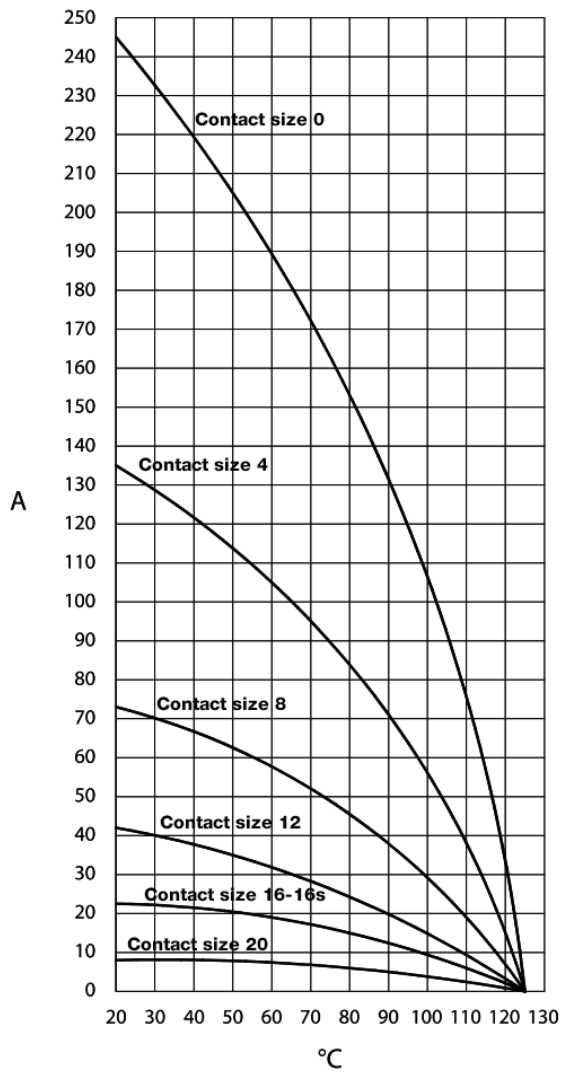
GENERAL REQUIREMENTS

Dati Elettrici

Corrente consigliata in funzione della temperatura.

Electrical Data

Recommended current according to the temperature.



Size	Maximum Current*
20	7,5 A
16-16S	22 A
12	41 A
8	73 A
4	135 A
0	245 A
4/0	350 A

* vedere pag. 13

* see pag. 13

i valori di corrente indicati sono relativi ad un contatto singolo.

Rated current with one contact loaded in a contact arrangement.

I parametri elettrici di progettazione e produzione dei connettori elettrici con accoppiamento a baionetta soddisfano i requisiti Mil-DTL-5015 e VG 95 234. Tutti i connettori CVBS vengono prodotti e testati per soddisfare gli standard VG 95234.

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

CARATTERISTICHE ELETTRICHE DEI CONTATTI

I valori sotto riportati sono validi per utilizzo a temperatura ambiente di 20°C. Si ricorda comunque che:

- a temperature crescenti diminuisce la conducibilità fra i contatti e quindi il valore della corrente applicabile
- alla corrente di lavoro e alla temperatura di 20°C la temperatura della connessione sale comunque
- per quanto sopra, deve essere attentamente considerata la corrente applicabile a una data temperatura e a una determinata misura di contatto
- il materiale dell'isolante deve essere scelto non solo in funzione della temperatura ambiente ma anche di quella indotta dalla connessione elettrica.

In caso di dubbio, consultare il nostro Ufficio Vendite.

Misura AWG contatto AWG contact size	Corrente massima A ⁽¹⁾ Maximum current A ⁽¹⁾	Corrente di lavoro A ⁽⁴⁾ Rated current A ⁽⁴⁾	Caduta di tensione mV ⁽³⁾ Maximum voltage drop mV ⁽³⁾	Corrente di prova A Test current A
16-16S	22	13	49	13
12	41	23	42	23
8	73	46	26	46
4	135	80	23	80
0	245	150	21	150
4/0	350	225	21	225

⁽¹⁾ Applicabile a temperatura ambiente di 20°C.

⁽³⁾ Prova eseguita secondo norma SAE AS39029 utilizzando cavo argentato.

⁽⁴⁾ Applicabile a temperatura ambiente di 80°C.

CONTACTS ELECTRICAL CHARACTERISTICS

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.

CARATTERISTICHE D'ISOLAMENTO E DI TENSIONE DI LAVORO

I valori della seguente tabella:

- sono validi per utilizzo al livello del mare
- si riferiscono ad ambiente di utilizzazione pulito. Si deve tenere quindi conto dell'inquinamento dovuto a polveri metalliche o di altra natura
- riguardano contatti con terminazione standard a saldare o a pinzare di misura adatta a cavi di sezione AWG uguale a quella della misura del contatto stesso. Occorre quindi prestare attenzione nel caso di utilizzo di contatti con terminale di pinzatura maggiorato rispetto alla misura AWG nominale.

Codice servizio Service code	Tensione di lavoro V. cc Operating Voltage V. dc	Tensione di lavoro V. ca Operating Voltage V. ac	Tensione di prova V. ca ⁽¹⁾ Test Voltage V. ac RMS ⁽¹⁾
I (Strum. - Instr.)	250	200	1.000
A	700	500	2.000
D	1.250	900	2.800
E	1.750	1.250	3.500
B	2.450	1.750	4.500
C	4.200	3.000	7.000

⁽¹⁾ I connettori non presentano alcun segno di scarica quando la tensione indicata nella tabella è applicata per un minuto fra due contatti adiacenti e fra il guscio e il contatto più vicino ad esso.

Avvertenza

In casi in cui la tensione nominale di lavoro superi i 50V verso massa, si devono adottare le opportune misure di sicurezza come descritto dalle norme CEI 23, IEC 309-1, BS 2618, VDE 010.

I dati nelle tabelle sopra riportate si intendono applicabili solo nel caso in cui le norme anti-infortunistiche sopra citate siano state soddisfatte.

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.

⁽¹⁾ 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.

CARATTERISTICHE GENERALI

CONTATTI

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INSERTI ISOLANTI E ZOCCOLI

Sezione B 21
 Illustrazione delle disposizioni 22
 Elenco per misura guscio 45
 Elenco per quantità totale contatti 50
 Elenco rotazioni inserti 54

GUSCI

Sezione C 60
 Illustrazione dei gusci connettori 60
 Compatibilità fra i gusci vedi tabella 74
 Dati di montaggio dei gusci 75
 Caratteristiche della schermatura 78
 Tabella classi connettori e accessori posteriori 79
 Illustrazione delle classi connettori e accessori posteriori 80

ACCESSORI CONNETTORI

Sezione D 120

GENERAL CHARACTERISTICS

CONTACTS

Section A 15

INSULATING INSERTS AND GROMMETS

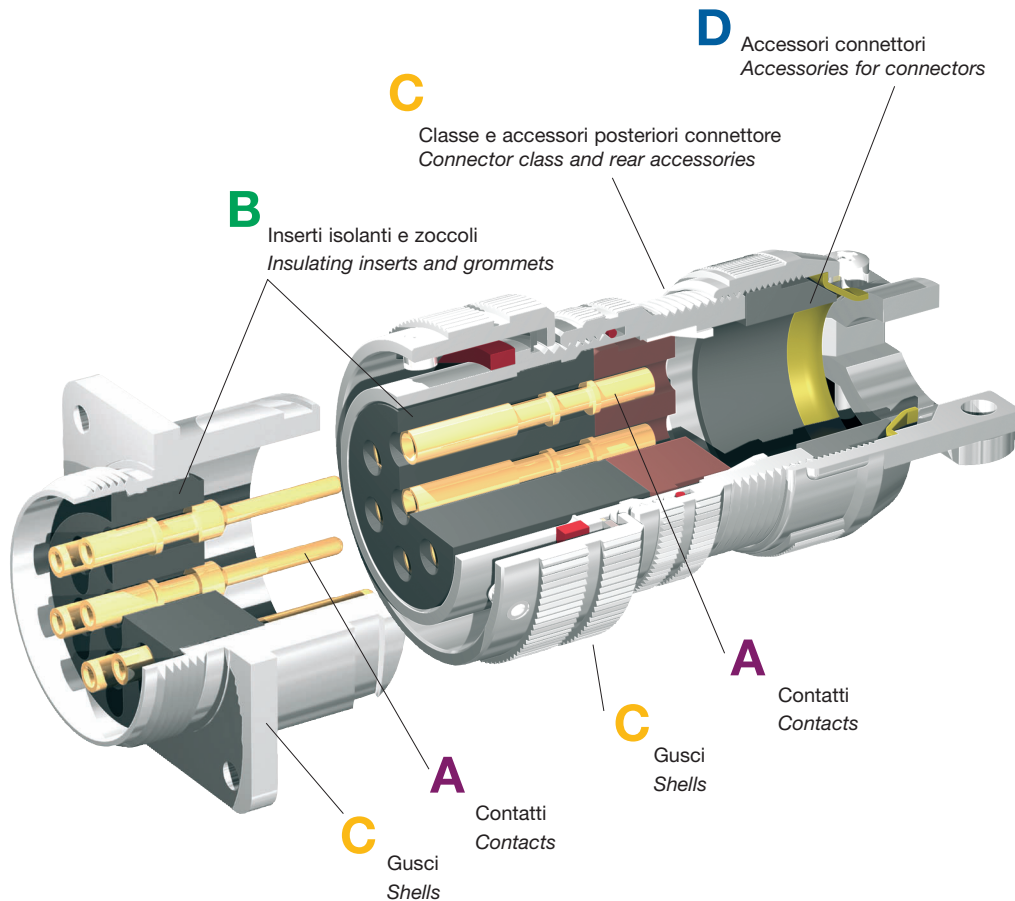
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SHELLS

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Connectors classes and rear accessories from 80

ACCESSORIES FOR CONNECTORS

Section D 120



CONTATTI

Nelle applicazioni ferroviarie i contatti sono di solito utilizzati con terminazione a pinzare.

Possono essere forniti non montati in una confezione inclusa in quella del connettore stesso o separatamente.

Per il codice del connettore fornito senza contatti vedere la tabella di spiegazione sigla a p. 4.

Il materiale dei contatti è lega di rame con successivo trattamento di argentatura (produzione standard) o di doratura con spessori a richiesta. Per i codici dei connettori richiedibili con contatti a trattamento specifico vedere la tabella di spiegazione sigla a p. 4.

Tutti i contatti sono torniti per assicurare massima precisione di accoppiamento, resistenza alle vibrazioni e ai ripetuti cicli di innesto e disinnesto.

In funzione di specifiche esigenze, sono disponibili contatti per particolari utilizzi o per diverse terminazioni e con trattamenti speciali.

CONTACTS

Crimp contacts are commonly used in railways applications. They can be supplied loose in a bag inside the connector packing or separately.

The code of the connector supplied without contacts can be found on the P/N explanation table at p. 4.

Contacts material is copper alloy and they are protected by a silver (standard production) or gold finish with varying plating thickness on request. As for codes of connectors to be supplied with specific finish contacts please consult the section referring to the P/N explanations at p. 4.

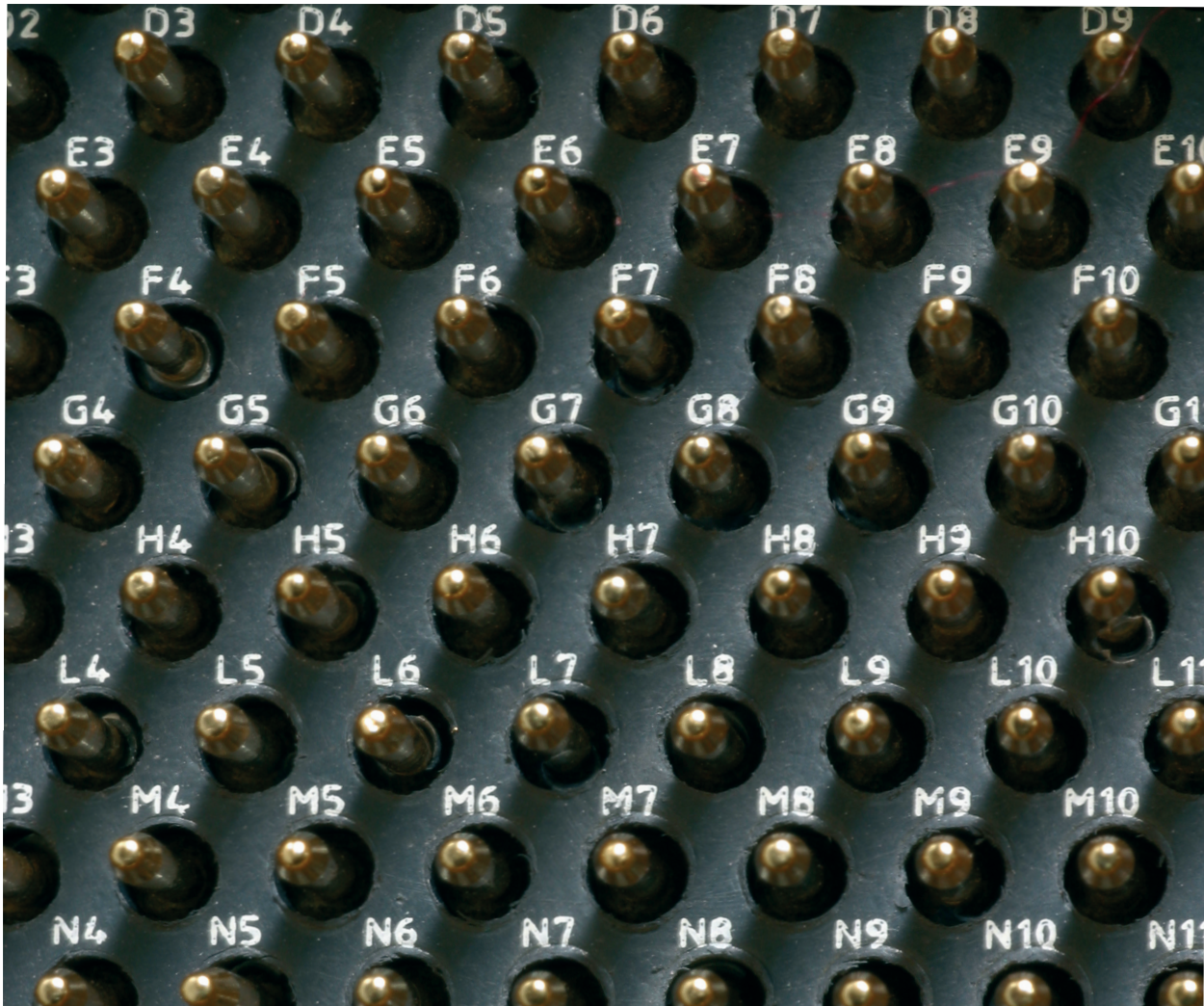
All contacts are machined in order to guarantee optimum connection properties and to provide resistance to vibration and continuous mating and unmating cycles.

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

Forze di innesto e disinnesto dei contatti

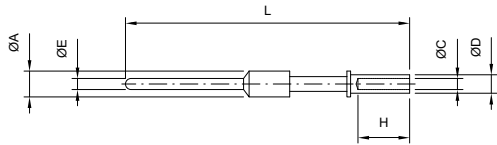
Engagement and disengagement force between contacts

Misura contatto Contact size	Innesto in N. Max ^(*) Engagement ^(*) in N. Max	Disinnesto in N. Min ^(*) Disengagement ^(*) in N. Min	^(*) Test secondo norma SAE AS39029 ^(*) Test according to SAE AS39029
20	1.8	0.19	
18	2.4	0.19	
16-16S	5	0.56	
12	7.5	0.83	
8	15	1.39	
4	20	2.78	
0	42.5	4.17	



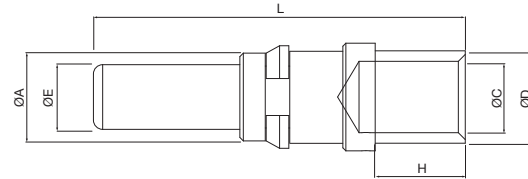
CONTATTI

Contatti maschi a pinzare



CONTACTS

Male contacts - crimp



Misura contatto Contact Size	Codice Van-System(*) Van-System P/N(*)	Sezione cavo (mm ²) Wire section (mm ²)	Misura cavo AWG AWG cable size	ØA	ØC	ØD	ØE	H	L
20	ST485 20P/1(a)**	0.15÷0.3	26÷22	2	0.9	1.6	1	4	32.5
20	ST485 20P/2(b)**	0.15÷0.3	26÷22	2	0.9	1.6	1	4	24.6
20	ST485 20P/3(C)**	0.15÷0.3	26÷22	2	0.9	1.6	1	4	29.9
18	ST485 18P	0.15÷0.6	26÷20	2.2	1.3	1.93	1.42	4.5	29.6
16S	ST485 16SP	1÷1.5	18÷16	3.2	1.7	2.6	1.58	6.5	26.6
16S	ST485 16S-12P	0.6	20	3.2	1.2	2.6	1.58	6.5	26.6
16S	ST485 16S-13P	0.15÷0.6	26÷20	3.2	1.3	1.93	1.58	6.5	26.6
16S	ST485 16S-15P	1	18	3.2	1.5	2.6	1.58	6.5	26.6
16S	ST485 16S-20P	2	14	3.2	2	2.9	1.58	6.5	26.6
16S	ST485 16S-26P	3	12	3.2	2.5	3.8	1.58	7	27
16	ST485 16P	1÷1.5	18÷16	3.2	1.7	2.6	1.58	6.5	31.75
16	ST485 16-08P**	0.15÷0.2	26÷24	3.2	0.85	1.55	1.58	6.35	31.75
16	ST485 16-12P	0.6	20	3.2	1.2	2.6	1.58	6.35	31.75
16	ST485 16-13P	0.15÷0.6	26÷20	3.2	1.3	1.93	1.58	6.35	31.75
16	ST485 16-15P	1	18	3.2	1.5	2.6	1.58	6.35	31.75
16	ST485 16-20P	2	14	3.2	2	2.9	1.58	6.35	31.75
16	ST485 16-26P	3	12	3.2	2.5	3.8	1.58	7	31.75
12	ST485 12-12P	0.6	20	4.8	1.2	2.6	2.38	8.5	37.5
12	ST485 12-15P	0.75÷1	18	4.8	1.5	3.4	2.38	8.5	37.5
12	ST485 12-20P	1÷2	18÷14	4.8	2	3.8	2.38	6.5	37.5
12	ST485 12-22P	2.5	-	4.8	2.2	3.8	2.38	8.5	37.5
12	ST485 12P	3	12	4.8	2.5	3.8	2.38	8.5	37.5
12	ST485 12-30P	4	-	4.8	3	4.8	2.38	8.5	37.5
12	ST485 12-38P	6	-	4.8	3.6	4.8	2.38	8	37.5
8	ST485 8P	-	8	7.8	4.55	6.8	3.6	12.2	40.7
8	ST485 8-15P**	1	18	7.8	1.5	3.4	3.6	8.5	40.7
8	ST485 8-18P**	1÷2	18÷14	7.8	2	3.8	3.6	8.5	40.7
8	ST485 8-30P	4	-	7.8	3	4.8	3.6	8.3	40.7
8	ST485 8-38P	6	10	7.8	3.6	6.8	3.6	12.2	40.6
8	ST485 8-50P	10	-	7.8	5	6.8	3.6	12.2	40.7
4	ST485 4P	22	4	11	7.1	9.55	5.7	12.2	41.25
4	ST485 4-26P**	3	-	11	2.5	3.8	5.7	8.5	41.25
4	ST485 4-30P	4	-	11	3	4.8	5.7	8.5	41.25
4	ST485 4-50P	10	-	11	5	7	5.7	12.2	41.25
4	ST485 4-58P	-	6	11	5.8	7.8	5.7	12.2	41.25
4	ST485 4-62P	16	-	11	6.2	9.5	5.7	12.2	41.25
0	ST485 0P	53	0	15.1	11.5	14.35	9.05	14.5	45
0	ST485 0-45P	-	8	15.1	4.55	6.8	9.05	12.2	44.5
0	ST485 0-78P	25	-	15.1	7.8	9.5	9.05	14	44.5
0	ST485 0-90P	35	2	15.1	9	14.35	9.05	13.6	44.5
0	ST485 0-107P	50	-	15.1	10.7	14.35	9.05	14.5	44.5
4/0L	ST485 4/0-115P	53	0	20	11.5	14.35	14	16.3	59.2
4/0L	ST485 4/0-135P	67.4	2/0	20	13.5	16.5	14	18	66
4/0L	ST485 4/0-144P	70	-	20	14.4	20	14	23	66
4/0L	ST485 4/0-155P	95	-	20	15.5	20	14	23	66
4/0L	ST485 4/0-P	107÷120	4/0	20	16.5	20	14	23	66

Dimensioni in mm

Dimensions in mm

versioni con ØE= 12.7mm a richiesta / on request version with ØE = 12.7mm

4/0L = con lamina / with louver

(a) Per disposizione 40A201

(b) Per disposizioni 24A55 e 28-72

(c) Per disposizione 22A24

(a) For arrangement 40A201

(b) For arrangements 24A55 e 28-72

(c) For arrangement 22A24

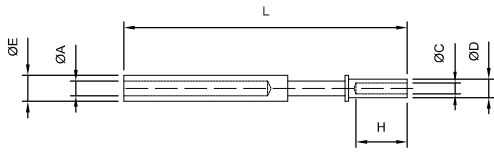
(*) Si riferisce a contatti con trattamento di argentatura
Aggiungere il codice CD5 nel caso della versione dorata(*) P/N concerning silver plated contacts
Add code CD5 for gold plated contacts

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

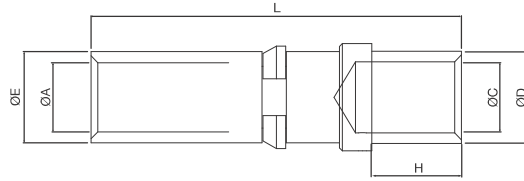
CONTATTI

Contatti femmina a pinzare



CONTACTS

Female contacts - crimp



Misura contatto Contact Size	Codice Van-System(*) Van-System P/N(*)	Sezione cavo (mm ²) Wire section (mm ²)	Misura cavo AWG AWG cable size	ØA	ØC	ØD	ØE	H	L
20	ST485 20S(a)**	0.15÷0.3	26÷22	1.15	0.9	1.6	2	4	32.5
18	ST485 18S	0.15÷0.6	26÷20	1.46	1.3	1.93	2.4	4.5	34.4
16S	ST485 16SS	1÷1.5	18÷16	1.68	1.7	2.6	3.2	6.35	27
16S	ST485 16S-12S	0.6	20	1.68	1.2	2.6	3.2	6.5	26.6
16S	ST485 16S-13S	0.15÷0.6	26÷20	1.68	1.3	1.93	3.2	6.5	26.6
16S	ST485 16S-15S	1	18	1.68	1.5	2.6	3.2	6.5	26.6
16S	ST485 16S-20S	2	14	1.68	2	2.9	3.2	6.5	27
16S	ST485 16S-26S	3	12	1.68	2.5	3.8	3.2	7	27
16	ST485 16S	1÷1.5	18÷16	1.68	1.7	2.6	3.2	6.5	36.5
16	ST485 16-08S**	0.15÷0.2	26÷24	1.68	0.85	1.55	3.2	6.35	36.5
16	ST485 16-12S	0.6	20	1.68	1.2	2.6	3.2	6.5	36.5
16	ST485 16-13S	0.15÷0.6	26÷20	1.68	1.3	1.93	3.2	6.35	36.5
16	ST485 16-15S	1	18	1.68	1.5	2.6	3.2	6.5	36.5
16	ST485 16-20S	2	14	1.68	2	2.9	3.2	6.5	36.5
16	ST485 16-26S	3	12	1.68	2.5	3.8	3.2	7	36.5
12	ST485 12-12S	0.6	20	2.48	1.2	2.6	4.8	8.5	37.5
12	ST485 12-15S	0.75÷1	18	2.48	1.5	3.4	4.8	8.5	37.5
12	ST485 12-20S	1÷2	18÷14	2.48	2	3.8	4.8	6.5	37.5
12	ST485 12-22S	2.5	-	2.48	2.2	3.8	4.8	8.5	37.5
12	ST485 12S	3	12	2.48	2.5	3.8	3.2	8.5	37.5
12	ST485 12-30S	4	-	2.48	3	4.8	4.8	8.5	37.5
12	ST485 12-38S	6	-	2.48	3.6	4.8	4.8	8.5	37.5
8	ST485 8S	-	8	3.7	4.55	6.8	7.8	12.2	40.7
8	ST485 8-15S**	1	18	3.7	1.5	3.4	7.8	8.5	40.7
8	ST485 8-18S**	1÷2	18÷14	3.7	1.8	3.8	7.8	8.5	40.7
8	ST485 8-30S	4	-	3.7	3	4.8	7.8	8.3	40.7
8	ST485 8-38S	6	10	3.7	3.6	6.8	7.8	12.2	39.6
8	ST485 8-50S	10	-	3.7	5	7	7.8	11.5	40.7
4	ST485 4S	22	4	5.8	7.1	9.55	11	12.2	41.2
4	ST485 4-26S**	3	-	5.8	2.5	3.8	11	8.5	41.2
4	ST485 4-30S	4	-	5.8	3	4.8	11	8.5	41.2
4	ST485 4-50S	10	-	5.8	5	7	11	12.2	41.2
4	ST485 4-58S	-	6	5.8	5.8	7.8	11	12.2	41.2
4	ST485 4-62S	16	-	5.8	6.2	9.5	11	12.2	41.2
0	ST485 0S	53	0	9.04	11.5	14.35	15.1	14.5	45
0	ST485 0-45S	-	8	9.04	4.55	6.8	15.1	12.2	45
0	ST485 0-78S	25	-	9.04	7.8	9.5	15.1	14	45
0	ST485 0-90S	35	2	9.04	9	14.35	15.1	14	45
0	ST485 0-107S**	50	-	9.04	10.7	14.35	15.1	14.5	45
4/0L	ST485 4/0-115S	53	0	14.15	11.5	16.5	20	18	59.2
4/0L	ST485 4/0-135S	67.4	2/0	14.15	13.5	20	20	23	66
4/0L	ST485 4/0-144S	70	-	14.15	14.4	20	20	23	66
4/0L	ST485 4/0-155S	95	-	14.15	15.5	20	20	23	66
4/0L	ST485 4/0-S	107÷120	4/0	14.15	16.5	7	20	4.5	66

Dimensioni in mm

Dimensions in mm

versioni con ØA= 12.7mm a richiesta / on request version with ØA = 12.7mm
4/0L = con lamina / with louver

(a) Per tutte le disposizioni con contatti misura 20

(a) For all arrangements with long size 20 contacts

(*) Si riferisce a contatti con trattamento di argentatura
Aggiungere il codice CD5 nel caso della versione dorata

(*) P/N concerning silver plated contacts
Add code CD5 for gold plated contacts

** A richiesta (consultare il nostro Ufficio Vendite)

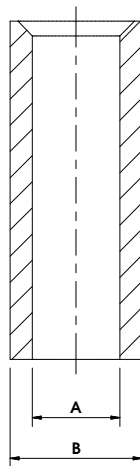
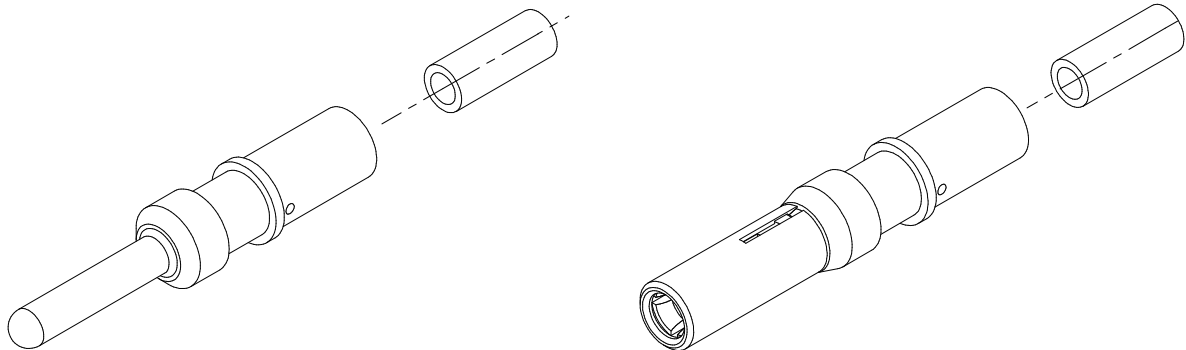
** On request (please consult our Sales Office)

CONTATTI**Adattatori di pinzatura**

Sono da utilizzare nel caso di cavi con una sezione più piccola di quella del terminale dei contatti.
Sono disponibili con finitura di argentatura o doratura.
Altre versioni possono essere studiate e fornite per cavi di sezione diversa.

CONTACTS**Crimp adapters**

To be used in case of wire section smaller than contact termination.
They are available with silver or gold finish.
Alternative versions can be designed and supplied on request for different wire sections.



Codice adattatore(*) <i>Adapter P/N(*)</i>	Misura contatto <i>Contact size</i>	Sezione cavo <i>Wire section</i>	Utilizzabile con contatto <i>Can be used with contact</i>
AP485 12-17	12	16 AWG	**
AP485 8-26	8	12 AWG	**
AP485 8-17	8	1.5 mm ²	**
AP485 8-26	8	2.5 mm ²	**
AP485 8-30	8	4 mm ²	ST485 8P / ST485 8S
AP485 8-38	8	6 mm ²	ST485 8P / ST485 8S
AP485 4-45	4	8 AWG	**
AP485 4-17	4	1.5 mm ²	ST485 4P / ST485 4S
AP485 4-30	4	4 mm ²	ST485 4P / ST485 4S
AP485 4-38	4	6 mm ²	ST485 4P / ST485 4S
AP485 4-50	4	10 mm ²	ST485 4P / ST485 4S
AP485 4-62	4	16 mm ²	ST485 4P / ST485 4S
AP485 0-72	0	4 AWG	**
AP485 0-78	0	25 mm ²	ST485 0P / ST485 0S

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

* versione standard argentata (AP 485xx CD5 versione dorata)

* silver plated version (AP 485xx CD5 gold plated version)

CONTATTI

Contatti coassiali

Sono prodotti in modo da essere assemblati negli alloggiamenti dei contatti della misura 12, 8, 4 e 0, a seconda dell'impiego e del tipo di cavo da collegare.

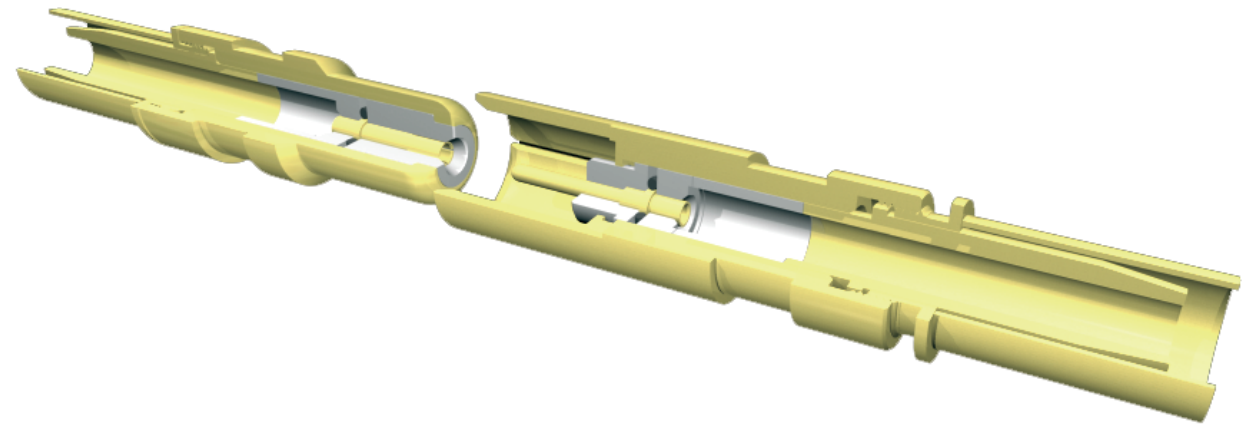
Per individuare correttamente il tipo più adatto è meglio consultare il nostro Ufficio Vendite.

CONTACTS

Coaxial contacts

They are made to be used for size 12, 8, 4 and 0 contact cavities according to wire and application.

For the optimum choice it is better to consult our Sales Office.



Codice contatto maschio <i>Male contact P/N</i>	Codice contatto femmina <i>Female contact P/N</i>	Usato con cavo <i>Used with cable</i>	Misura alloggiamento contatto <i>Contact cavity size</i>
CC485-4-006P	CC485-4-006S	RG 6 (75 Ω)	4
CC485-8-058P	CC485-8-058S	RG 58 (50 Ω)	8
CC485-4-059P	CC485-4-059S	RG 59 (75 Ω)	4
CC485-8-059P	CC485-8-059S	RG 59 (75 Ω)	8
CC485-8-141P *	CC485-8-141S	RG 141 (50 Ω)	8
CC485-8-142P *	CC485-8-142S	RG 142 (50 Ω)	8
CC485-8-174P	CC485-8-174S	RG 174 (50 Ω)	8
CC485-12-178P*	CC485-12-178S	RG 178 (50 Ω)	12
CC485-8-179P *	CC485-8-179S	RG 179 (75 Ω)	8
CC485-8-187P	CC485-8-187S	RG 187 (75 Ω)	8
CC485-12-188P*	CC485-12-188S	RG 188 (50 Ω)	12
CC485-8-400P *	CC485-8-400S	RG 400 (50 Ω)	8

* A richiesta (consultare il nostro Ufficio Vendite)

* On request (please consult our Sales Office)

CONTATTI

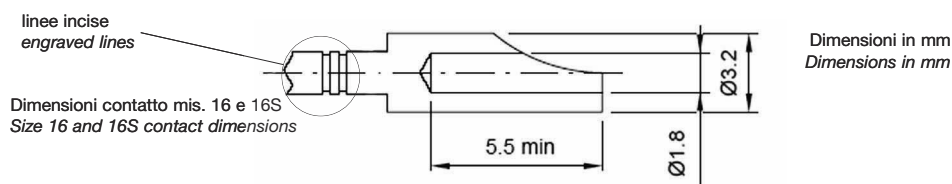
Contatti in lega per termocoppie

Questi contatti sono prodotti utilizzando leghe compensate; montati sui connettori al posto di quelli tradizionali, evitano la distorsione del segnale delle termocoppie collegate dal connettore stesso.

Il materiale è conforme alla norma IEC 60584-1 e affinché sia più chiaramente identificabile, i contatti sono marcati con un contrassegno colorato e da una serie di linee incise sulla parte centrale (come dalla tabella seguente).

Tipo termocoppia Thermocouple type	Materiale Material		Pol. Pol.	Colore identificazione Identification colour		N° linee incise Engraved lines No.
T	Rame	Copper	+	-		n.a.
	Costantana	Costantane	-	Giallo	Yellow	1
J	Ferro	Iron	+	Nero	Black	3
	Costantana	Costantane	-	Giallo	Yellow	1
E	Chromel	Chromel	+	Bianco	White	2
	Costantana	Costantane	-	Giallo	Yellow	1
K	Chromel	Chromel	+	Bianco	White	2
	Alumel	Alumel	-	Verde	Green	-

I contatti del tipo a saldare sono forniti con le seguenti misure del terminale:

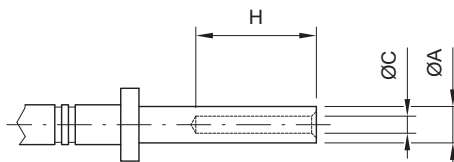


Contatti a pinzare per termocoppie

I contatti del tipo a pinzare possono essere forniti separatamente.

Anche questo tipo di contatti è identificabile per mezzo di un contrassegno colorato e da una serie di linee incise sulla parte centrale (vedi tabella sopra).

Le loro dimensioni sono nella seguente tabella.



Mis. Size	Materiale Material		Codice maschio Male ct. P/N	Codice femmina Female ct. P/N	Sezione cavo Wire section		ØC	ØA	H
					mm ²	AWG			
16S	Chromel	Chromel	TC1-485-16SP**	TC1-485-16SS**	1±1.5	16	1.8	3.2	4.8
16S	Alumel	Alumel	TC2-485-16SP**	TC2-485-16SS**	1±1.5	16	1.7	2.6	6.35
16S	Ferro	Iron	TC3-485-16SP**	TC3-485-16SS**	1±1.5	16	1.7	2.6	6.35
16S	Costantana	Costantane	TC4-485-16SP**	TC4-485-16SS**	1±1.5	16	1.7	2.6	6.35
16	Chromel	Chromel	TC1-485-16-07P	TC1-485-16-07S	0.15±0.5	26±20	0.75	1.6	5.3
16	Alumel	Alumel	TC2-485-16-07P	TC2-485-16-07S	0.15±0.5	26±20	0.75	1.6	5.3
16	Ferro	Iron	TC3-485-16-07P	TC3-485-16-07S	0.15±0.5	26±20	0.75	1.6	5.3
16	Costantana	Costantane	TC4-485-16-07P	TC4-485-16-07S	0.15±0.5	26±20	0.75	1.6	5.3
16	Chromel	Chromel	TC1-485-16-15P	TC1-485-16-15S	1	18	1.5	2.6	6.35
16	Alumel	Alumel	TC2-485-16-15P	TC2-485-16-15S	1	18	1.5	2.6	6.35
16	Ferro	Iron	TC3-485-16-15P	TC3-485-16-15S	1	18	1.5	2.6	6.35
16	Costantana	Costantane	TC4-485-16-15P	TC4-485-16-15S	1	18	1.5	2.6	6.35
16	Chromel	Chromel	TC1-485-16P	TC1-485-16S	1±1.5	16	1.7	2.6	6.35
16	Alumel	Alumel	TC2-485-16P	TC2-485-16S	1±1.5	16	1.7	2.6	6.35
16	Ferro	Iron	TC3-485-16P	TC3-485-16S	1±1.5	16	1.7	3.2	6.35
16	Costantana	Costantane	TC4-485-16P	TC4-485-16S	1±1.5	16	1.7	2.6	6.5

Dimensioni in mm

** A richiesta (consultare il nostro Ufficio Vendite)

Dimensions in mm

** On request (please consult our Sales Office)

INSERTI ISOLANTI E ZOCCOLI

Inserti isolanti e zoccoli sono prodotti con le seguenti mescole di gomme sintetiche, tutte ad altissimo isolamento elettrico:

- **mescola cloroprenica** - per impiego non gravoso. Caratteristiche di buona resistenza all'invecchiamento, ad oli e benzine. Temperatura di impiego: da -55° a +125°C*.
- **(S) mescola siliconica** - per impiego con alte e basse temperature. Caratteristiche di ottima resistenza all'invecchiamento, alle radiazioni nucleari, all'ozono. Temperatura di impiego: da -55° a +200°C*
- **(V) mescola a base fluorurata** - per impiego ad alte temperature. Caratteristiche di ottima resistenza all'invecchiamento, agenti atmosferici, fluidi idraulici, oli e grassi. Temperatura di impiego: da -25° a +200°C*
- **(RF) mescola resistente al fuoco e priva di alogeni** - per impiego in situazioni ove è richiesta la non propagazione della fiamma, la bassa opacità e la non tossicità dei fumi. Certificata a norme:
 - EN 45545-2 HL3 R22/R23
 - NFPA 130
 Temperatura di impiego: da -55° a +150°C*

* I valori possono variare a seconda del trattamento della custodia

INSULATING INSERTS AND GROMMETS

Insulating inserts and grommets are manufactured with the following synthetic, highly insulated, rubber compounds:

- **chloroprenic compound** - for non heavy applications. Good resistance to ageing, oils and gasoline. Rated temperature: -55° to +125°C*
- **(S) silicon compound** - for high and low temperature applications. Excellent resistance to ageing, nuclear radiations and ozone. Rated temperature: -55° to +200°C*
- **(V) fluorcarbon compound** - Excellent resistance to ageing, atmospheric agents, hydraulic fluids and oils. Rated temperature: -25° to +200°C*
- **(RF) fire resistant and halogen free compound** - employed when no flame propagation, low opacity and non smoke toxicity are requested. Qualified according to:
 - EN 45545-2 HL3 R22/R23
 - NFPA 130
 Rated temperature: -55° to +150°C*

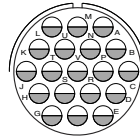
* Temperature range can be changed according to shell finishes

Come leggere l'elenco disposizioni

How to read the arrangements list

1. Scegliere la quantità e la misura dei contatti

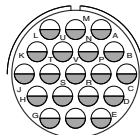
Choose contacts size and quantity



DISPOSIZIONE INSERTO ARRANGEMENT	
NUMERO CONTATTI NO. OF CONTACTS	19
MISURA CONTATTO CONTACT SIZE	16
CODICE SERVIZIO SERVICE RATING	

2. Scegliere il codice di servizio (tensione di lavoro e isolamento).

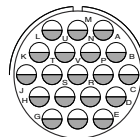
Choose service rating (rated voltage and insulating voltage)



DISPOSIZIONE INSERTO ARRANGEMENT	
NUMERO CONTATTI NO. OF CONTACTS	19
MISURA CONTATTO CONTACT SIZE	16
CODICE SERVIZIO SERVICE RATING	A

3. Determinare la misura del guscio (1ª cifra) e la disposizione inserto (2ª cifra)

Define shell size (1st digit) and insert arrangement (2nd digit)



DISPOSIZIONE INSERTO ARRANGEMENT	22-14
NUMERO CONTATTI NO. OF CONTACTS	19
MISURA CONTATTO CONTACT SIZE	16
CODICE SERVIZIO SERVICE RATING	A

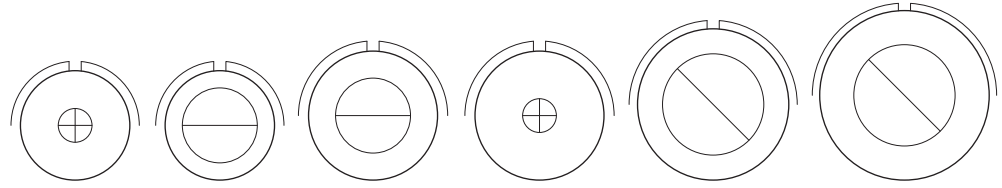
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)

List by contacts total quantity
(CVBS and CVBSG arrangements only)

1 contatto
1 contact



DISPOSIZIONE INSERTO
ARRANGEMENT

16-2**

16-12

18-6

18-16

20-2

22-7

NUMERO CONTATTI
NO. OF CONTACTS

1

1

1

1

1

1

MISURA CONTATTO
CONTACT SIZE

12

4

4

12

0

0

CODICE SERVIZIO
SERVICE RATING

E

A

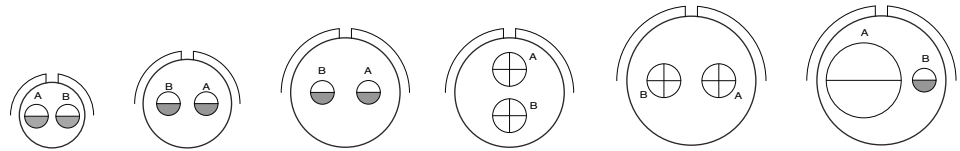
D

C

D

E

2 contatti
2 contacts



DISPOSIZIONE INSERTO
ARRANGEMENT

10SL-4

14S-9

16S-4

16-11

18-3

18-14

NUMERO CONTATTI
NO. OF CONTACTS

2

2

2

2

2

2

MISURA CONTATTO
CONTACT SIZE

16

16

16

12

12

1-4, 1-16

CODICE SERVIZIO
SERVICE RATING

A

A

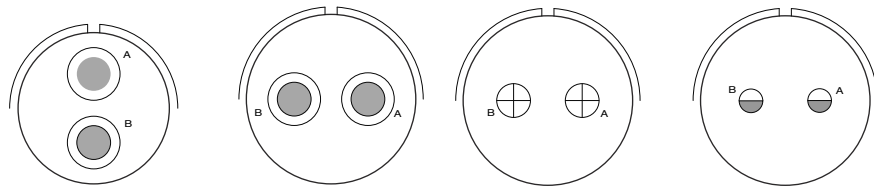
D

A

D

A

2 contatti
2 contacts



DISPOSIZIONE INSERTO
ARRANGEMENT

20-23

22-1

22-8

22-11

NUMERO CONTATTI
NO. OF CONTACTS

2

2

2

2

MISURA CONTATTO
CONTACT SIZE

2-8

2-8

2-12

2-16

CODICE SERVIZIO
SERVICE RATING

A

D

E

B

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20

18

16

12

8

4

0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

INSERTI ISOLANTI E ZOCCOLI

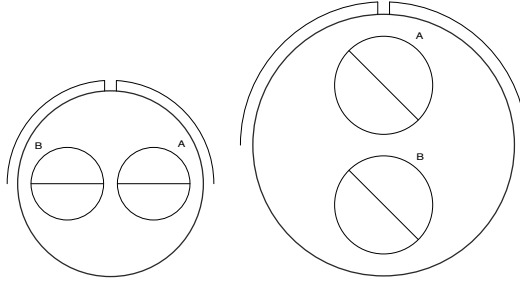
Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)

INSULATING INSERTS AND GROMMETS

List by contacts total quantity
(CVBS and CVBSG arrangements only)

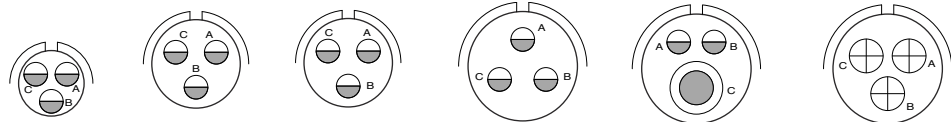
B

2 contatti
2 contacts



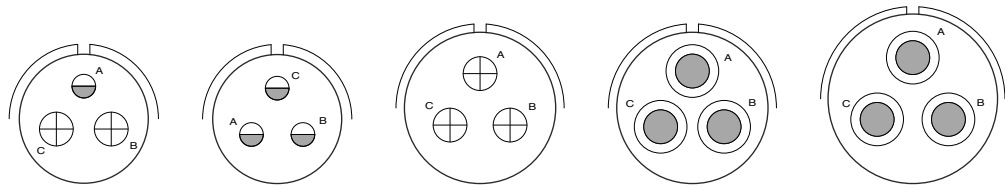
DISPOSIZIONE INSERTO ARRANGEMENT	24-9	32-5
NUMERO CONTATTI NO. OF CONTACTS	2	2
MISURA CONTATTO CONTACT SIZE	2-4	2-0
CODICE SERVIZIO SERVICE RATING	A	D

3 contatti
3 contacts



DISPOSIZIONE INSERTO ARRANGEMENT	10SL-3	14S-1	14S-7	16S-5**	16-7**	16-10
NUMERO CONTATTI NO. OF CONTACTS	3	3	3	3	3	3
MISURA CONTATTO CONTACT SIZE	3-16	3-16	3-16	3-16	1-8, 2-16	3-12
CODICE SERVIZIO SERVICE RATING	A	A	A	A	A	A

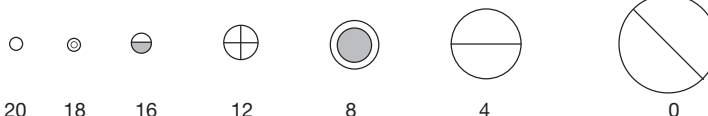
3 contatti
3 contacts



DISPOSIZIONE INSERTO ARRANGEMENT	18-5	18-22	20-3	20-19	22-2
NUMERO CONTATTI NO. OF CONTACTS	3	3	3	3	3
MISURA CONTATTO CONTACT SIZE	2-12, 1-16	3-16	3-12	3-8	3-8
CODICE SERVIZIO SERVICE RATING	D	D	D	A	D

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20 18 16

12

8

4

0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

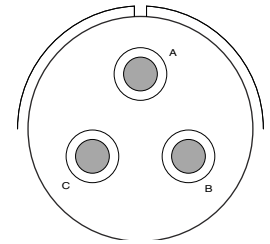
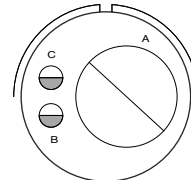
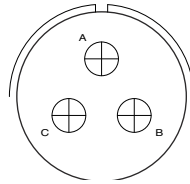
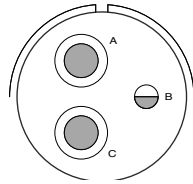
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**3 contatti
3 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

22-6

22-9

22-21

28-3

**NUMERO CONTATTI
NO. OF CONTACTS**

3

3

3

3

**MISURA CONTATTO
CONTACT SIZE**

2-8, 1-16

3-12

1-0, 2-16

3-8

**CODICE SERVIZIO
SERVICE RATING**

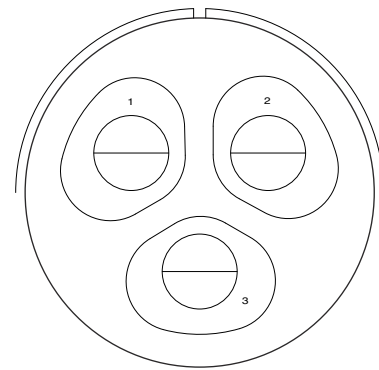
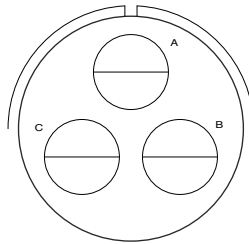
D

E

A

E

**3 contatti
3 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

28-6

40A-3

**NUMERO CONTATTI
NO. OF CONTACTS**

3

3

**MISURA CONTATTO
CONTACT SIZE**

3-4

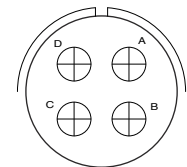
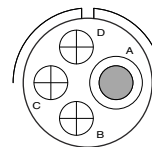
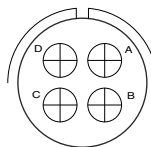
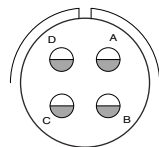
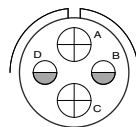
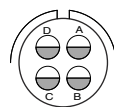
3-4

**CODICE SERVIZIO
SERVICE RATING**

D

E

**4 contatti
4 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

14S-2

16-9

18-4

18-10

18-13

20-4

**NUMERO CONTATTI
NO. OF CONTACTS**

4

4

4

4

4

4

**MISURA CONTATTO
CONTACT SIZE**

4-16

2-12, 2-16

4-16

4-12

1-8, 3-12

4-12

**CODICE SERVIZIO
SERVICE RATING**

I

A

D

A

A

D

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20

18

16

12

8

4

0

Contacts legend

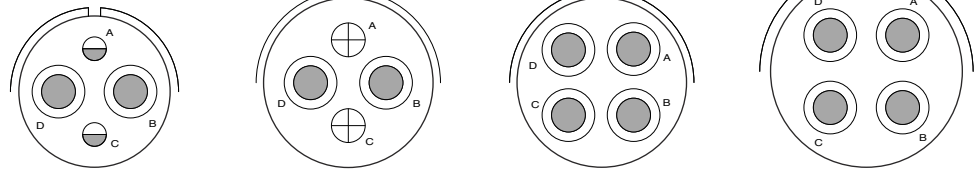
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

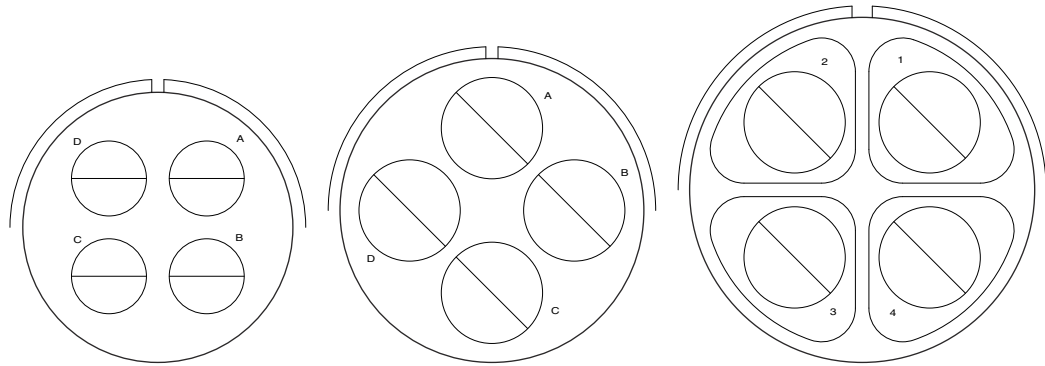
**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**4 contatti
4 contacts**



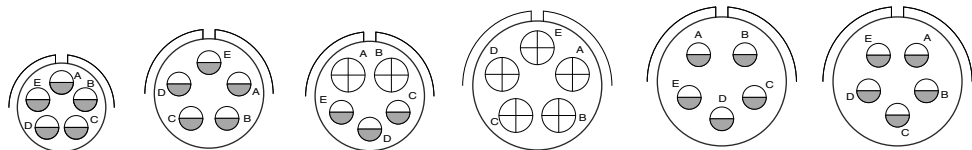
DISPOSIZIONE INSERTO ARRANGEMENT	20-24	22-4	22-22	24-22
NUMERO CONTATTI NO. OF CONTACTS	4	4	4	4
MISURA CONTATTO CONTACT SIZE	2-8, 2-16	2-8, 2-12	4-8	4-8
CODICE SERVIZIO SERVICE RATING	A	A	A	D

**4 contatti
4 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	32-17	36-5	40A-4
NUMERO CONTATTI NO. OF CONTACTS	4	4	4
MISURA CONTATTO CONTACT SIZE	4-4	4-0	4-0
CODICE SERVIZIO SERVICE RATING	D	A	E

**5 contatti
5 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	14S-5	16S-8	16A-5	18-11	18-20	18A-5**
NUMERO CONTATTI NO. OF CONTACTS	5	5	5	5	5	5
MISURA CONTATTO CONTACT SIZE	5-16	5-16	2-12, 3-16	5-12	5-16	5-16
CODICE SERVIZIO SERVICE RATING	I	A	*	A	A	(*)

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

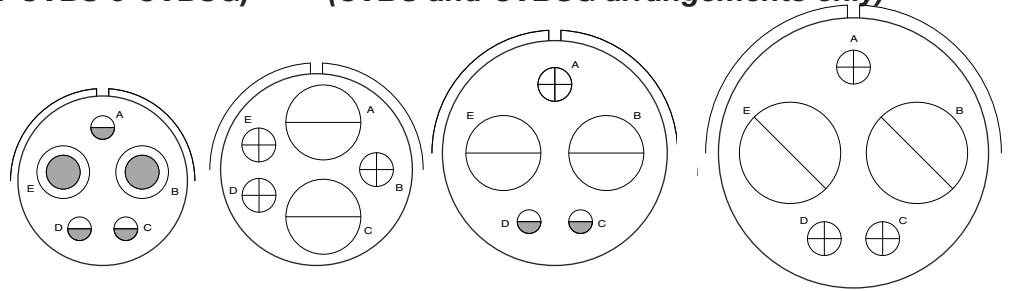
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**5 contatti
5 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

22-12

24-12

28-5

32-1

**NUMERO CONTATTI
NO. OF CONTACTS**

5

5

5

5

**MISURA CONTATTO
CONTACT SIZE**

2-8, 3-16

2-4, 3-12

2-4, 1-12, 2-16

2-0, 3-12

**CODICE SERVIZIO
SERVICE RATING**

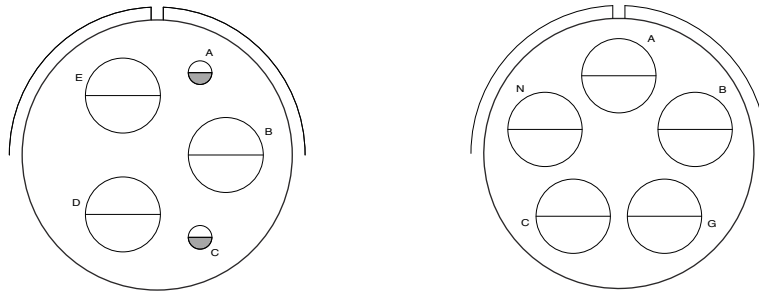
D

A

D

A=E - Bal.=D

**5 contatti
5 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

32-2

32A-5

**NUMERO CONTATTI
NO. OF CONTACTS**

5

5

**MISURA CONTATTO
CONTACT SIZE**

3-4, 2-16

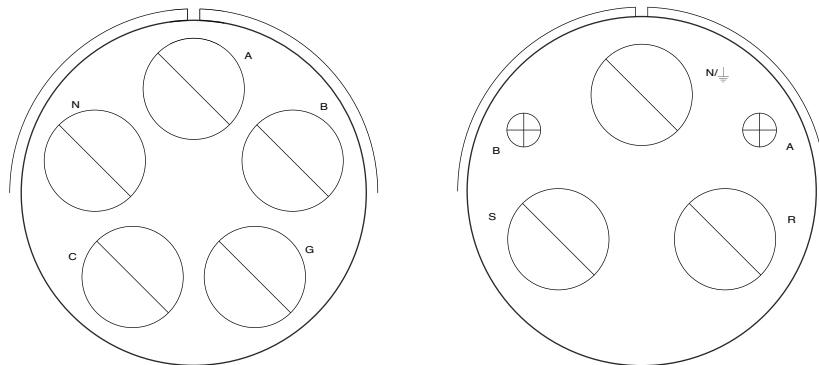
5-4

**CODICE SERVIZIO
SERVICE RATING**

E

(*)

**5 contatti
5 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

40A-5**

40B-3**

**NUMERO CONTATTI
NO. OF CONTACTS**

5

5

**MISURA CONTATTO
CONTACT SIZE**

5-0

3-0, 2-12

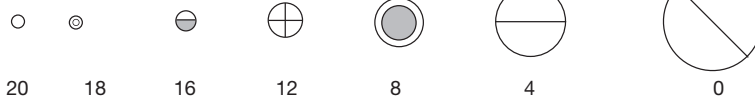
**CODICE SERVIZIO
SERVICE RATING**

(*)

A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20

18

16

12

8

4

0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

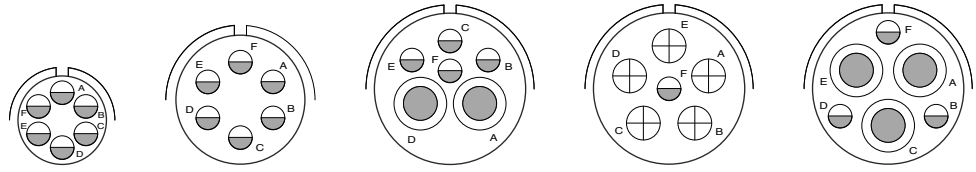
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

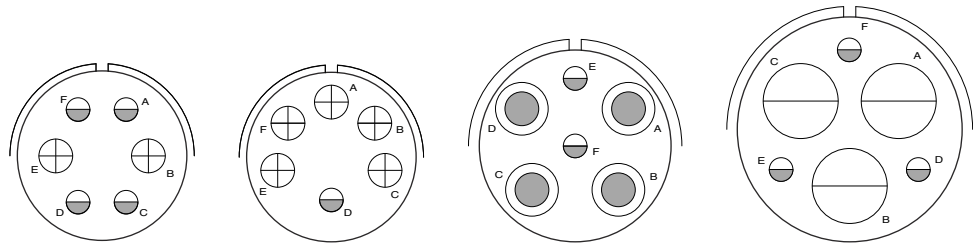
**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**6 contatti
6 contacts**



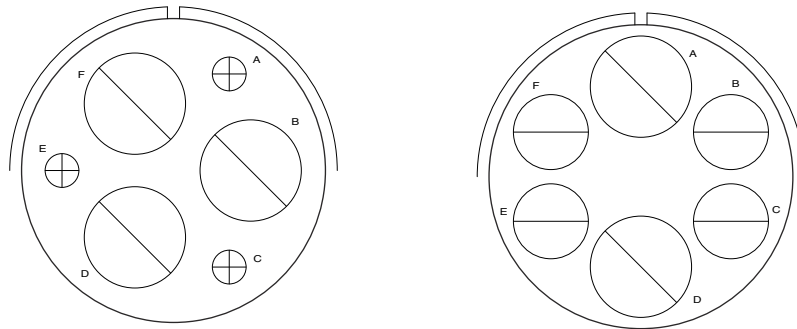
DISPOSIZIONE INSERTO ARRANGEMENT	14S-6	18-12	20-8	20-17	20-22
NUMERO CONTATTI NO. OF CONTACTS	6	6	6	6	6
MISURA CONTATTO CONTACT SIZE	6-16	6-16	2-8, 4-16	5-12, 1-16	3-8, 3-16
CODICE SERVIZIO SERVICE RATING	I	A	I	A	A

**6 contatti
6 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	22-5	22-15	24-06**	28-22
NUMERO CONTATTI NO. OF CONTACTS	6	6	6	6
MISURA CONTATTO CONTACT SIZE	2-12, 4-16	5-12, 1-16	4-8, 2-16	3-4, 3-16
CODICE SERVIZIO SERVICE RATING	D	D=E - Bal.=A	D	D

**6 contatti
6 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	36-3	36-6**
NUMERO CONTATTI NO. OF CONTACTS	6	6
MISURA CONTATTO CONTACT SIZE	3-0, 3-12	2-0, 4-4
CODICE SERVIZIO SERVICE RATING	D	A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti 20 18 16 12 8 4 0 *Contacts legend*

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

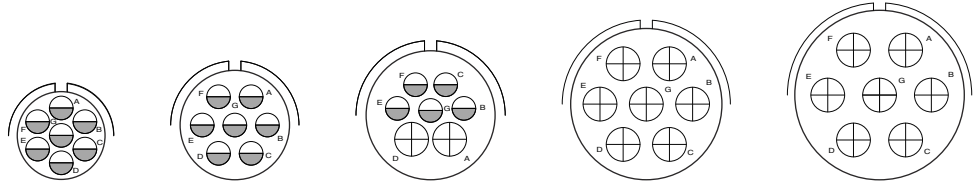
INSERTI ISOLANTI E ZOCCOLI

Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)

INSULATING INSERTS AND GROMMETS

List by contacts total quantity
(CVBS and CVBSG arrangements only)

7 contatti
7 contacts



DISPOSIZIONE INSERTO
ARRANGEMENT

14SA-7

16S-1

18-9**

20-15**

22-28**

NUMERO CONTATTI
NO. OF CONTACTS

7

7

7

7

7

MISURA CONTATTO
CONTACT SIZE

7-16

7-16

2-12, 5-16

7-12

7-12

CODICE SERVIZIO
SERVICE RATING

I

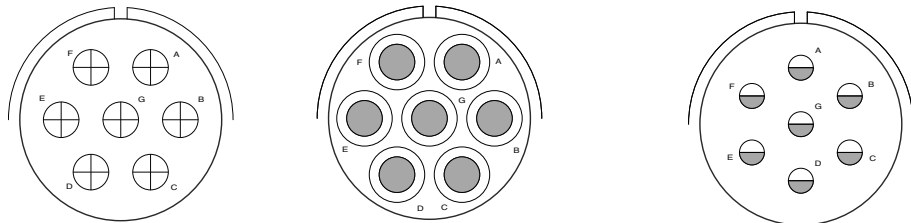
A

I

A

A

7 contatti
7 contacts



DISPOSIZIONE INSERTO
ARRANGEMENT

24-2

24-10

24-27**

NUMERO CONTATTI
NO. OF CONTACTS

7

7

7

MISURA CONTATTO
CONTACT SIZE

7-12

7-8

7-16

CODICE SERVIZIO
SERVICE RATING

D

A

E

7 contatti
7 contacts



DISPOSIZIONE INSERTO
ARRANGEMENT

24A-7**

28-10

NUMERO CONTATTI
NO. OF CONTACTS

7

7

MISURA CONTATTO
CONTACT SIZE

7-12

2-4, 3-8, 3-12

CODICE SERVIZIO
SERVICE RATING

D

G=D, Bal.=A

Vista frontale inserto contatti maschi



Legenda contatti

20

18

16

12

8

4

0

Contacts legend

Front view male contacts insert

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

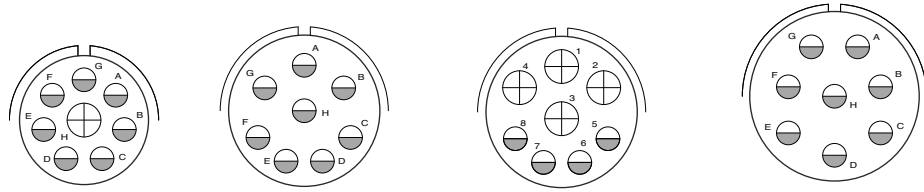
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

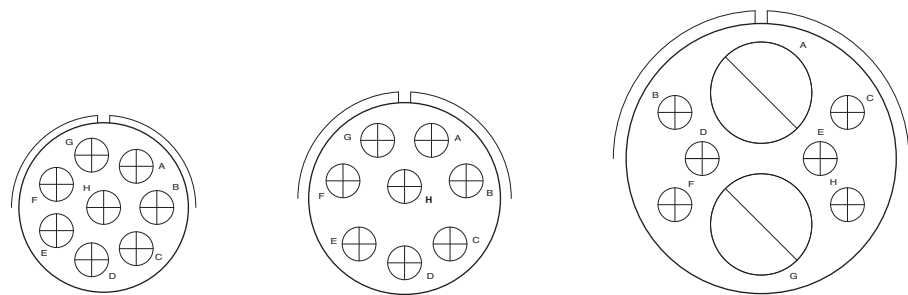
**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**8 contatti
8 contacts**



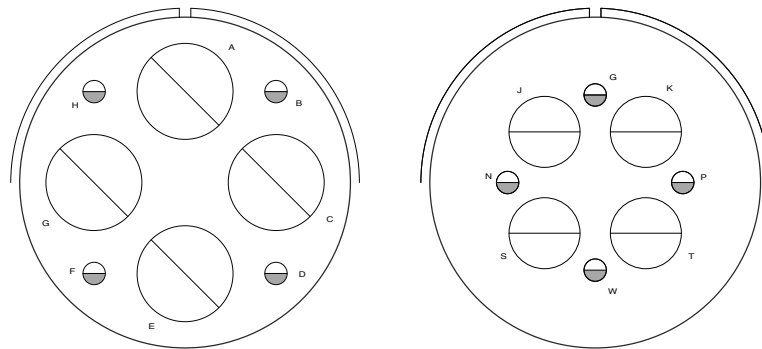
DISPOSIZIONE INSERTO ARRANGEMENT	18-8**	20-7	20B-8**	22-18
NUMERO CONTATTI NO. OF CONTACTS	8	8	8	8
MISURA CONTATTO CONTACT SIZE	1-12, 7-16	8-16	4-12, 4-16	8-16
CODICE SERVIZIO SERVICE RATING	A	A,B,H,G=D - Bal.=A	*	A,B,F,G,H=D - Bal.=A

**8 contatti
8 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	22-23	24-6	32-15
NUMERO CONTATTI NO. OF CONTACTS	8	8	8
MISURA CONTATTO CONTACT SIZE	8-12	8-12	2-0, 6-12
CODICE SERVIZIO SERVICE RATING	H=D - Bal.=A	A,G,H=D - Bal.=A	D

**8 contatti
8 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	40A-8	40A-10
NUMERO CONTATTI NO. OF CONTACTS	8	8
MISURA CONTATTO CONTACT SIZE	4-0, 4-16	4-4, 4-16
CODICE SERVIZIO SERVICE RATING	E	D

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti 20 18 16 12 8 4 0 Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

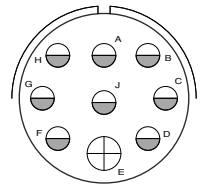
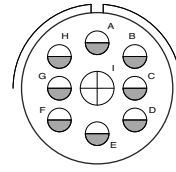
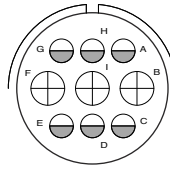
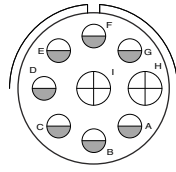
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**9 contatti
9 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

20-16

20-18

20-21

22-17

**NUMERO CONTATTI
NO. OF CONTACTS**

9

9

9

9

**MISURA CONTATTO
CONTACT SIZE**

2-12, 7-16

3-12, 6-16

1-12, 8-16

1-12, 8-16

**CODICE SERVIZIO
SERVICE RATING**

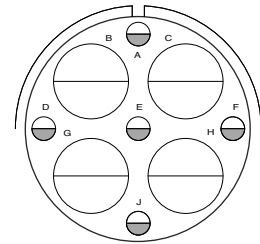
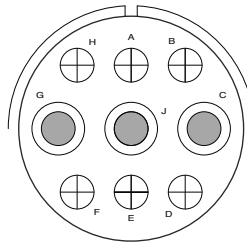
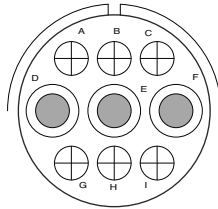
A

A

A

A=D - Bal.=A

**9 contatti
9 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

24-11

28-1

28A-9

**NUMERO CONTATTI
NO. OF CONTACTS**

9

9

9

**MISURA CONTATTO
CONTACT SIZE**

3-8, 6-12

3-8, 6-12

4-4, 5-16

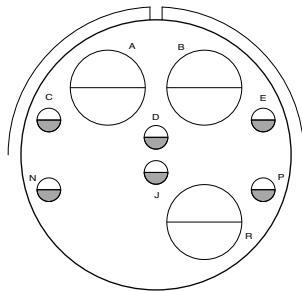
**CODICE SERVIZIO
SERVICE RATING**

A

A,J,E=D - Bal.=A

A

**9 contatti
9 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

32A-9**

**NUMERO CONTATTI
NO. OF CONTACTS**

9

**MISURA CONTATTO
CONTACT SIZE**

3-4, 6-16

**CODICE SERVIZIO
SERVICE RATING**

A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20

18

16

12

8

4

0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

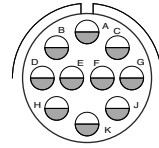
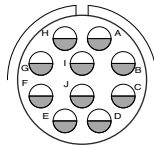
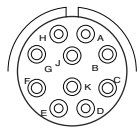
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

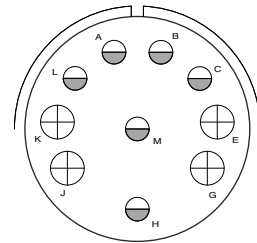
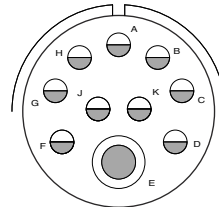
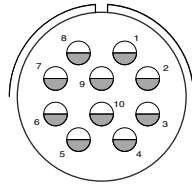
**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**10 contatti
10 contacts**



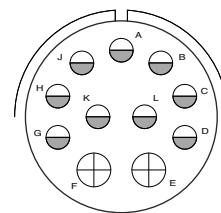
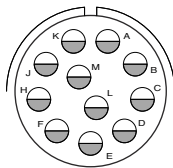
DISPOSIZIONE INSERTO ARRANGEMENT	16A-10**	18-1	18-19
NUMERO CONTATTI NO. OF CONTACTS	10	10	10
MISURA CONTATTO CONTACT SIZE	10-18	10-16	10-16
CODICE SERVIZIO SERVICE RATING	A	B,C,F,G=A - Bal.=I	A

**10 contatti
10 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	22A-10	24-21	28-19
NUMERO CONTATTI NO. OF CONTACTS	10	10	10
MISURA CONTATTO CONTACT SIZE	10-16	9-16, 1-8	6-16, 4-12
CODICE SERVIZIO SERVICE RATING	A	D	H,M=B - A,B=D Bal.=A

**11 contatti
11 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	20-33	24-20
NUMERO CONTATTI NO. OF CONTACTS	11	11
MISURA CONTATTO CONTACT SIZE	11-16	2-12, 9-16
CODICE SERVIZIO SERVICE RATING	A	D

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti 20 18 16 12 8 4 0 Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

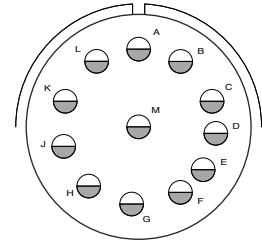
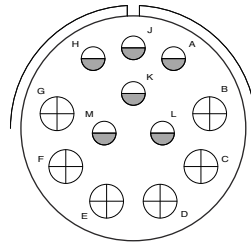
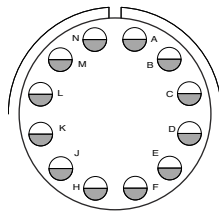
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**12 contatti
12 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

24-19**

28-9

28-18

**NUMERO CONTATTI
NO. OF CONTACTS**

12

12

12

**MISURA CONTATTO
CONTACT SIZE**

12-16

6-12, 6-16

12-16

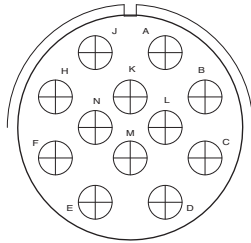
**CODICE SERVIZIO
SERVICE RATING**

A

D

M=C - A,B=A - G,H,J,K,L=D - Bal.=I

**12 contatti
12 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

28-51**

**NUMERO CONTATTI
NO. OF CONTACTS**

12

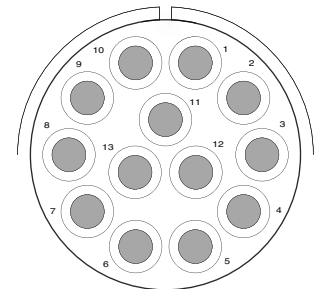
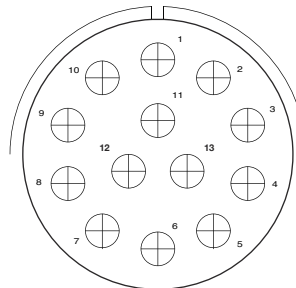
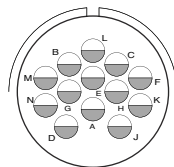
**MISURA CONTATTO
CONTACT SIZE**

12-12

**CODICE SERVIZIO
SERVICE RATING**

D

**13 contatti
13 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

20-11

32A-13

32B-13**

**NUMERO CONTATTI
NO. OF CONTACTS**

13

13

13

**MISURA CONTATTO
CONTACT SIZE**

13-16

13-12

13-8

**CODICE SERVIZIO
SERVICE RATING**

I

D

A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20

18

16

12

8

4

0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

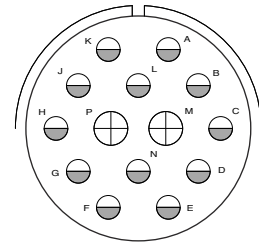
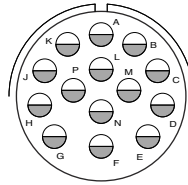
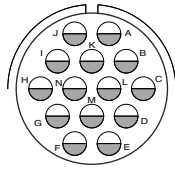
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

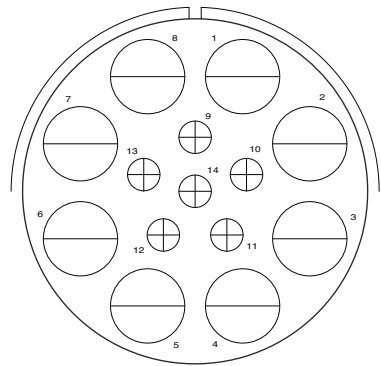
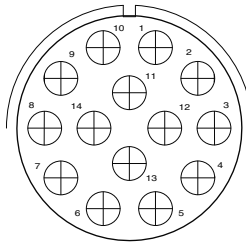
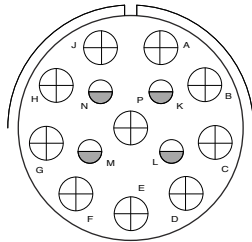
**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**14 contatti
14 contacts**



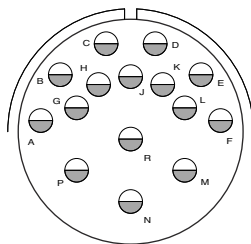
DISPOSIZIONE INSERTO ARRANGEMENT	20-27	22-19	28-2
NUMERO CONTATTI NO. OF CONTACTS	14	14	14
MISURA CONTATTO CONTACT SIZE	14-16	14-16	2-12, 12-16
CODICE SERVIZIO SERVICE RATING	A	A	D

**14 contatti
14 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	28-20	28A-14	40A-14
NUMERO CONTATTI NO. OF CONTACTS	14	14	14
MISURA CONTATTO CONTACT SIZE	10-12, 4-16	14-12	8-4, 6-12
CODICE SERVIZIO SERVICE RATING	A	D	A

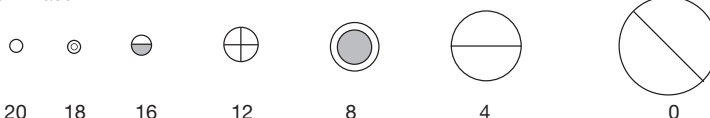
**15 contatti
15 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	28-17
NUMERO CONTATTI NO. OF CONTACTS	15
MISURA CONTATTO CONTACT SIZE	15-16
CODICE SERVIZIO SERVICE RATING	M,N,P=D - R=B - Bal.=A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

Contacts legend

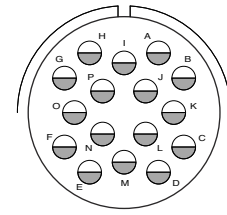
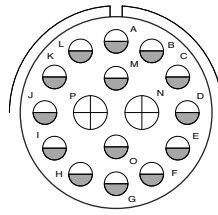
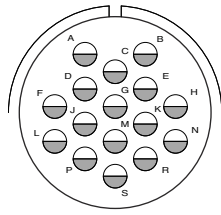
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**16 contatti
16 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

24-5

24-7

24A-16**

**NUMERO CONTATTI
NO. OF CONTACTS**

16

16

16

**MISURA CONTATTO
CONTACT SIZE**

16-16

2-12, 14-16

16-16

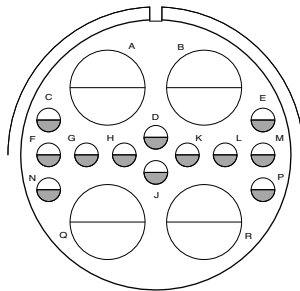
**CODICE SERVIZIO
SERVICE RATING**

A

A

(*)

**16 contatti
16 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

32-68

**NUMERO CONTATTI
NO. OF CONTACTS**

16

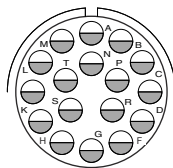
**MISURA CONTATTO
CONTACT SIZE**

4-4, 12-16

**CODICE SERVIZIO
SERVICE RATING**

A

**17 contatti
17 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

20-29

**NUMERO CONTATTI
NO. OF CONTACTS**

17

**MISURA CONTATTO
CONTACT SIZE**

17-16

**CODICE SERVIZIO
SERVICE RATING**

A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20

18

16

12

8

4

0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

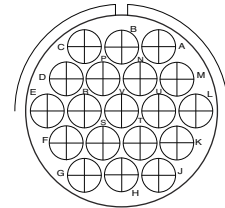
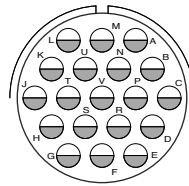
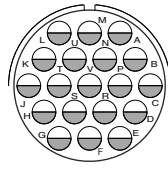
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

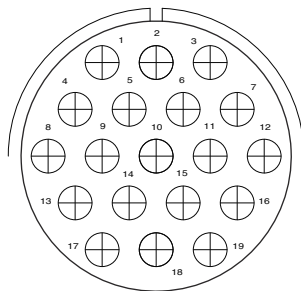
**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**19 contatti
19 contacts**



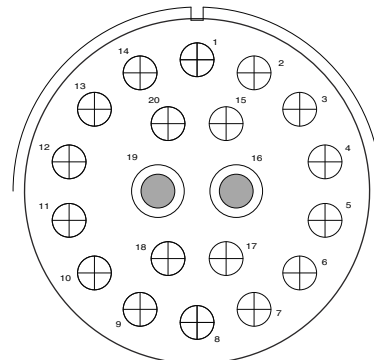
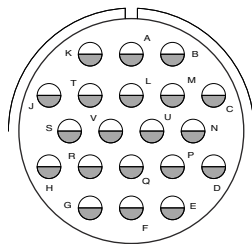
DISPOSIZIONE INSERTO ARRANGEMENT	20A-48	22-14	24-67
NUMERO CONTATTI NO. OF CONTACTS	19	19	19
MISURA CONTATTO CONTACT SIZE	19-16	19-16	19-12
CODICE SERVIZIO SERVICE RATING	I	A	A

**19 contatti
19 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	32-76**
NUMERO CONTATTI NO. OF CONTACTS	19
MISURA CONTATTO CONTACT SIZE	19-12
CODICE SERVIZIO SERVICE RATING	A

**20 contatti
20 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	28-16	40A-20
NUMERO CONTATTI NO. OF CONTACTS	20	20
MISURA CONTATTO CONTACT SIZE	20-16	2-8, 18-12
CODICE SERVIZIO SERVICE RATING	A	A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti 20 18 16 12 8 4 0 Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

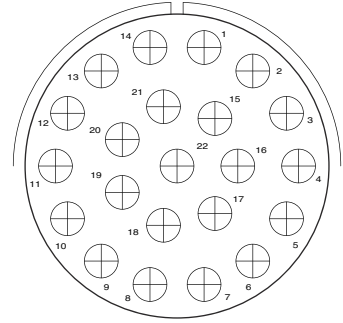
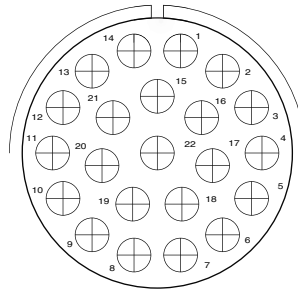
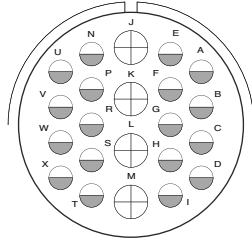
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

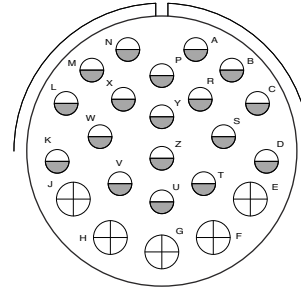
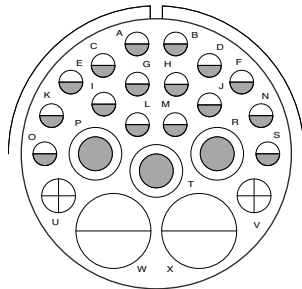
**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**22 contatti
22 contacts**



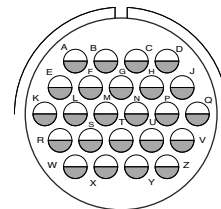
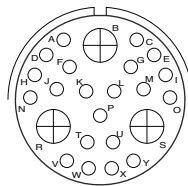
DISPOSIZIONE INSERTO ARRANGEMENT	28-11	32A-22	36A-22**
NUMERO CONTATTI NO. OF CONTACTS	22	22	22
MISURA CONTATTO CONTACT SIZE	4-12, 18-16	22-12	22-12
CODICE SERVIZIO SERVICE RATING	A	(*)	D

**23 contatti
23 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	32-6	32-13**
NUMERO CONTATTI NO. OF CONTACTS	23	23
MISURA CONTATTO CONTACT SIZE	2-4, 3-8, 2-12, 16-16	5-12, 18-16
CODICE SERVIZIO SERVICE RATING	A	D

**24 contatti
24 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	22A-24	24-28
NUMERO CONTATTI NO. OF CONTACTS	24	24
MISURA CONTATTO CONTACT SIZE	3-12, 21-20	24-16
CODICE SERVIZIO SERVICE RATING	(*)	I

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20 18 16 12 8 4 0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

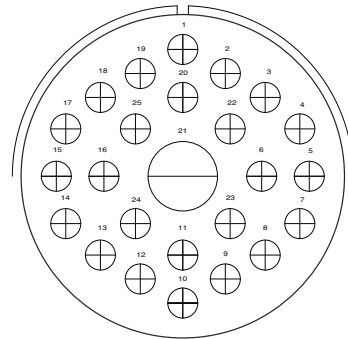
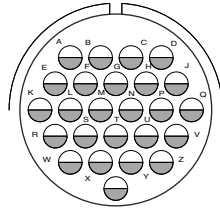
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**25 contatti
25 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

24A-25**

40A-25

**NUMERO CONTATTI
NO. OF CONTACTS**

25

25

**MISURA CONTATTO
CONTACT SIZE**

25-16

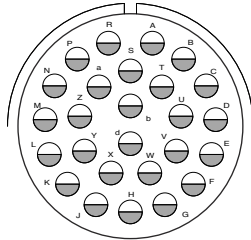
1-4, 24-12

**CODICE SERVIZIO
SERVICE RATING**

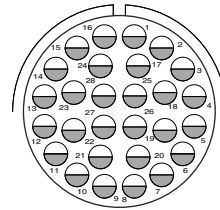
I

A

**26 contatti
26 contacts**



**28 contatti
28 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

28-12

24A-28

**NUMERO CONTATTI
NO. OF CONTACTS**

26

28

**MISURA CONTATTO
CONTACT SIZE**

26-16

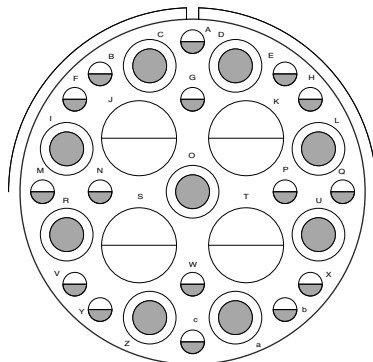
28-16

**CODICE SERVIZIO
SERVICE RATING**

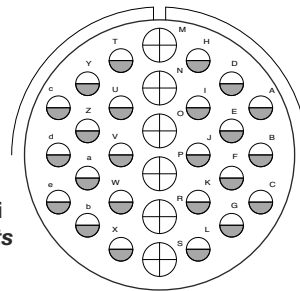
A

I

**29 contatti
29 contacts**



**30 contatti
30 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

40-10

32-8

**NUMERO CONTATTI
NO. OF CONTACTS**

29

30

**MISURA CONTATTO
CONTACT SIZE**

4-4, 9-8, 16-16

6-12, 24-16

**CODICE SERVIZIO
SERVICE RATING**

A

A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20 18 16 12 8 4 0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

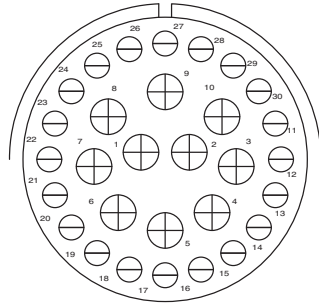
** On request (please consult our Sales Office)

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**



**30 contatti
30 contacts**

**DISPOSIZIONE INSERTO
ARRANGEMENT**

32A-30

**NUMERO CONTATTI
NO. OF CONTACTS**

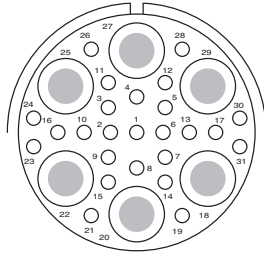
30

**MISURA CONTATTO
CONTACT SIZE**

10-12, 20-16

**CODICE SERVIZIO
SERVICE RATING**

A



**31 contatti
31 contacts**

**DISPOSIZIONE INSERTO
ARRANGEMENT**

28A-31

**NUMERO CONTATTI
NO. OF CONTACTS**

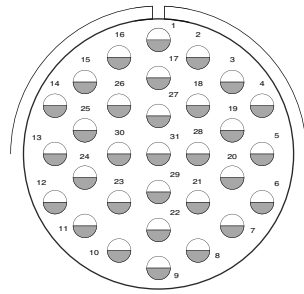
31

**MISURA CONTATTO
CONTACT SIZE**

25-20, 6-8

**CODICE SERVIZIO
SERVICE RATING**

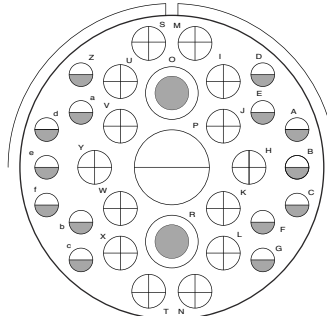
(*)



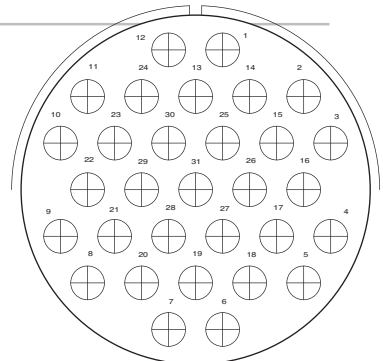
**31 contatti
31 contacts**

**DISPOSIZIONE INSERTO
ARRANGEMENT**

32-31



36-9



40A-31**

**NUMERO CONTATTI
NO. OF CONTACTS**

31

31

31

**MISURA CONTATTO
CONTACT SIZE**

31-16

1-4, 2-8, 14-12, 14-16

31-12

**CODICE SERVIZIO
SERVICE RATING**

A

A

D

Vista frontale inserto contatti maschi



Front view male contacts insert

Legenda contatti

20 18 16 12 8 4 0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

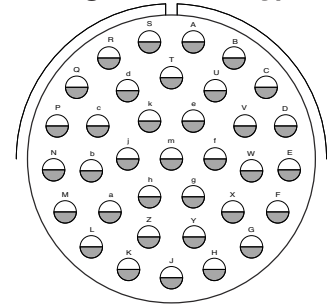
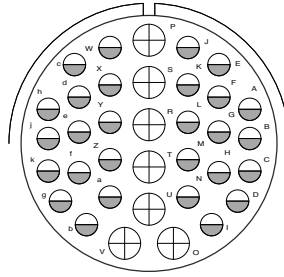
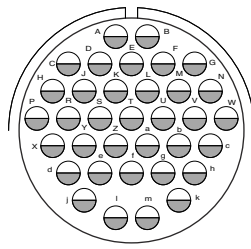
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

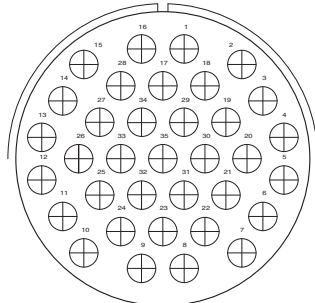
**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**35 contatti
35 contacts**



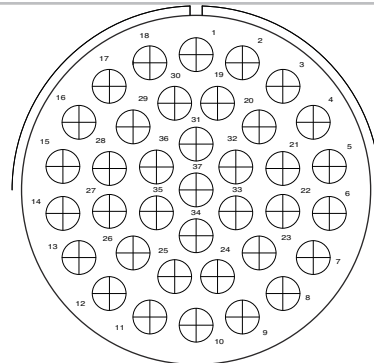
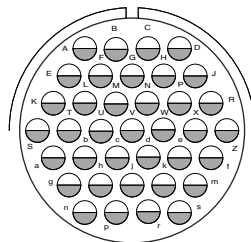
DISPOSIZIONE INSERTO ARRANGEMENT	28-15	32-7	36-15
NUMERO CONTATTI NO. OF CONTACTS	35	35	35
MISURA CONTATTO CONTACT SIZE	35-16	7-12, 28-16	35-16
CODICE SERVIZIO SERVICE RATING	A	A,B,h,j=l - Bal.=A	M=D - Bal.=A

**35 contatti
35 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	40A-35
NUMERO CONTATTI NO. OF CONTACTS	35
MISURA CONTATTO CONTACT SIZE	35-12
CODICE SERVIZIO SERVICE RATING	D

**37 contatti
37 contacts**



DISPOSIZIONE INSERTO ARRANGEMENT	28-21	40B-37
NUMERO CONTATTI NO. OF CONTACTS	37	37
MISURA CONTATTO CONTACT SIZE	37-16	37-12
CODICE SERVIZIO SERVICE RATING	A	A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20 18 16 12 8 4 0

Contacts legend

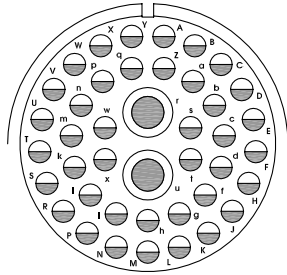
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

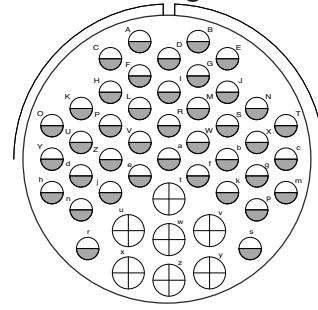
**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**42 contatti
42 contacts**



**47 contatti
47 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

32-59

36-7

**NUMERO CONTATTI
NO. OF CONTACTS**

42

47

**MISURA CONTATTO
CONTACT SIZE**

2-8, 40-16

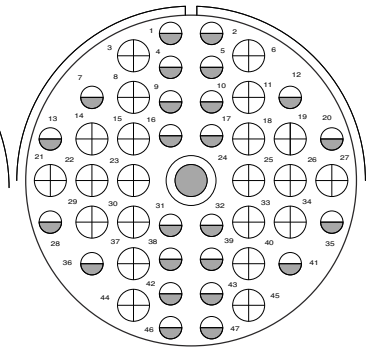
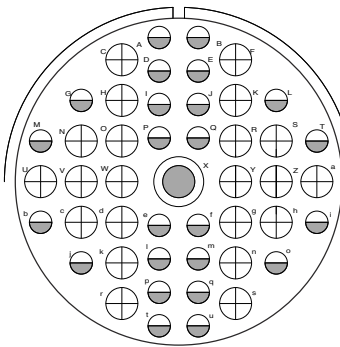
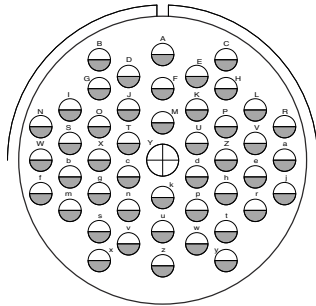
7-12, 40-16

**CODICE SERVIZIO
SERVICE RATING**

A

A

**47 contatti
47 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

36-8

40-9

40A-47**

**NUMERO CONTATTI
NO. OF CONTACTS**

47

47

47

**MISURA CONTATTO
CONTACT SIZE**

1-12, 46-16

1-8, 22-12, 24-16

1-8, 22-12, 24-16

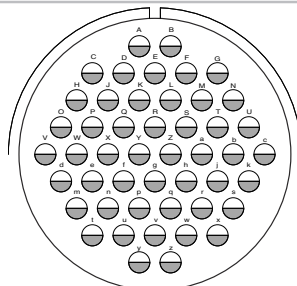
**CODICE SERVIZIO
SERVICE RATING**

A

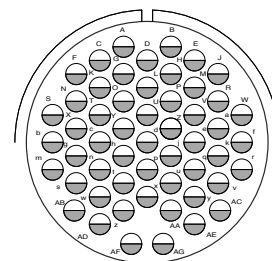
A

A

**48 contatti
48 contacts**



**54 contatti
54 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

36-10

32-22

**NUMERO CONTATTI
NO. OF CONTACTS**

48

54

**MISURA CONTATTO
CONTACT SIZE**

48-16

54-16

**CODICE SERVIZIO
SERVICE RATING**

A

A

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20 18 16 12 8 4 0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

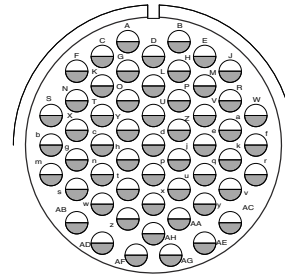
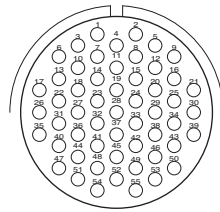
INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)**

**List by contacts total quantity
(CVBS and CVBSG arrangements only)**

**55 contatti
55 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

24A-55

32A-55**

**NUMERO CONTATTI
NO. OF CONTACTS**

55

55

**MISURA CONTATTO
CONTACT SIZE**

55-20

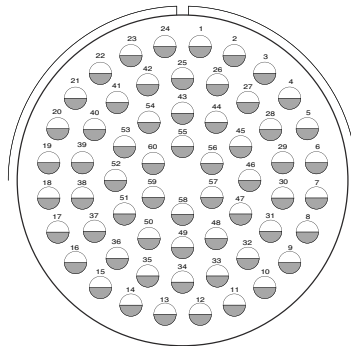
55-16

**CODICE SERVIZIO
SERVICE RATING**

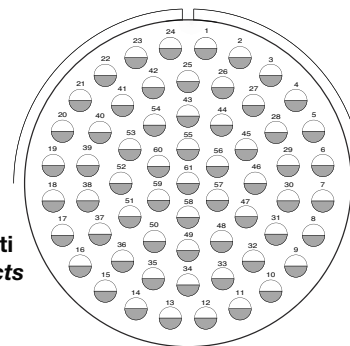
I

A

**60 contatti
60 contacts**



**61 contatti
61 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

40A-60

40-63**

**NUMERO CONTATTI
NO. OF CONTACTS**

60

61

**MISURA CONTATTO
CONTACT SIZE**

60-16

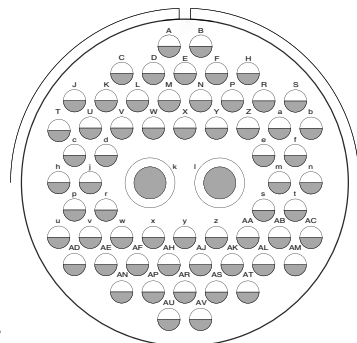
61-16

**CODICE SERVIZIO
SERVICE RATING**

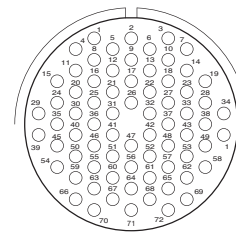
A

A

**62 contatti
62 contacts**



**72 contatti
72 contacts**



**DISPOSIZIONE INSERTO
ARRANGEMENT**

40A-62

28-72

**NUMERO CONTATTI
NO. OF CONTACTS**

62

72

**MISURA CONTATTO
CONTACT SIZE**

2-8, 60-16

72-20

**CODICE SERVIZIO
SERVICE RATING**

A

I

Vista frontale inserto contatti maschi

Front view male contacts insert



Legenda contatti

20 18 16 12 8 4 0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

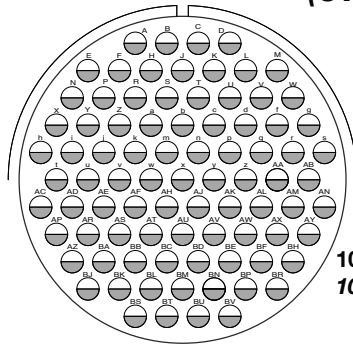
** On request (please consult our Sales Office)

INSERTI ISOLANTI E ZOCCOLI

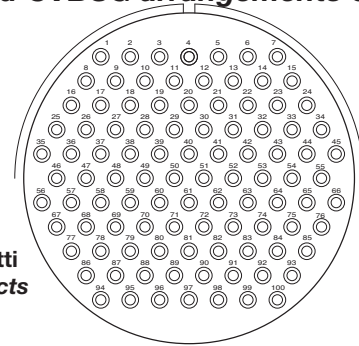
INSULATING INSERTS AND GROMMETS

Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)

List by contacts total quantity
(CVBS and CVBSG arrangements only)

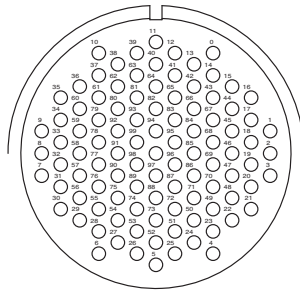


85 contatti
85 contacts



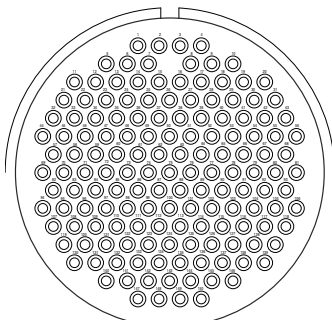
100 contatti
100 contacts

DISPOSIZIONE INSERTO <i>ARRANGEMENT</i>	40-56	40A-100
NUMERO CONTATTI <i>NO. OF CONTACTS</i>	85	100
MISURA CONTATTO <i>CONTACT SIZE</i>	85-16	100-18
CODICE SERVIZIO <i>SERVICE RATING</i>	A	A

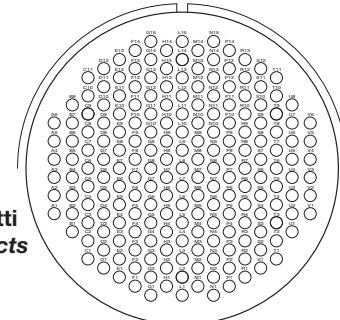


101 contatti
101 contacts

DISPOSIZIONE INSERTO <i>ARRANGEMENT</i>	32A-101**
NUMERO CONTATTI <i>NO. OF CONTACTS</i>	101
MISURA CONTATTO <i>CONTACT SIZE</i>	20
CODICE SERVIZIO <i>SERVICE RATING</i>	I



150 contatti
150 contacts



201 contatti
201 contacts

DISPOSIZIONE INSERTO <i>ARRANGEMENT</i>	40A-150	40A-201**
NUMERO CONTATTI <i>NO. OF CONTACTS</i>	150	201
MISURA CONTATTO <i>CONTACT SIZE</i>	150-18	201-20
CODICE SERVIZIO <i>SERVICE RATING</i>	I	(*)

Vista frontale inserto contatti maschi



Front view male contacts insert

Legenda contatti

20 18 16 12 8 4 0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

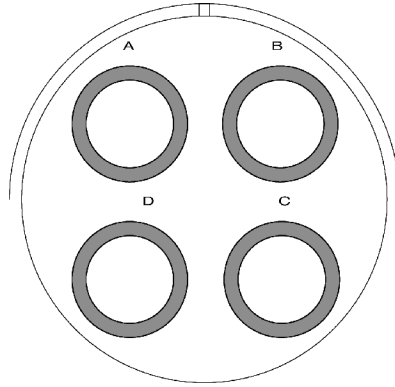
INSERTI ISOLANTI E ZOCCOLI

Elenco per quantità totale di contatti
(Disposizione solo per GVJ)

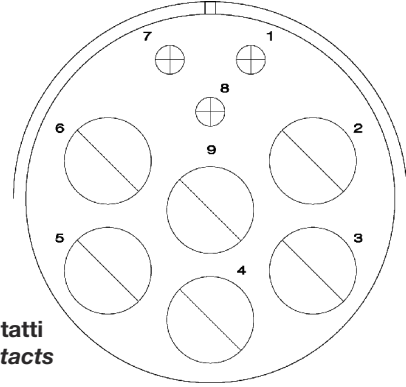
INSULATING INSERTS AND GROMMETS

List by contacts total quantity
(GVJ arrangements only)

B



4 contatti
4 contacts



9 contatti
9 contacts

DISPOSIZIONE INSERTO
ARRANGEMENT

48A-4*

48A-9**

NUMERO CONTATTI
NO. OF CONTACTS

4

9

MISURA CONTATTO
CONTACT SIZE

4/0L

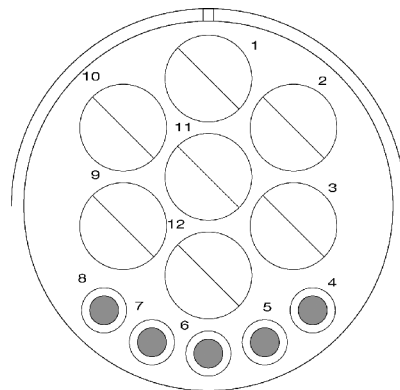
6-0, 3-12

CODICE SERVIZIO
SERVICE RATING

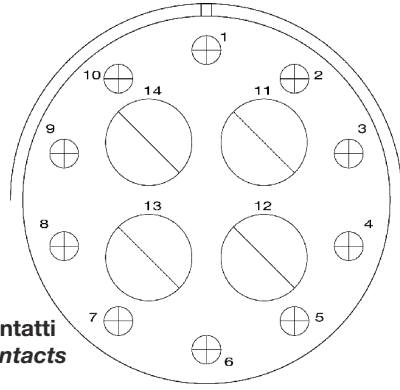
D

D

* In materiale termoplastico
* In thermoplastic material



12 contatti
12 contacts



14 contatti
14 contacts

DISPOSIZIONE INSERTO
ARRANGEMENT

48A-12**

48A-14**

NUMERO CONTATTI
NO. OF CONTACTS

12

14

MISURA CONTATTO
CONTACT SIZE

7-0, 5-8

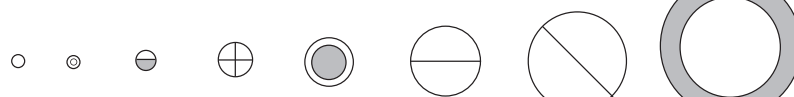
4-0, 10-12

CODICE SERVIZIO
SERVICE RATING

A

D

Vista frontale inserto
contatti maschi



Front view male
contacts insert

Legenda contatti

20 18 16 12 8 4 0 4/0

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

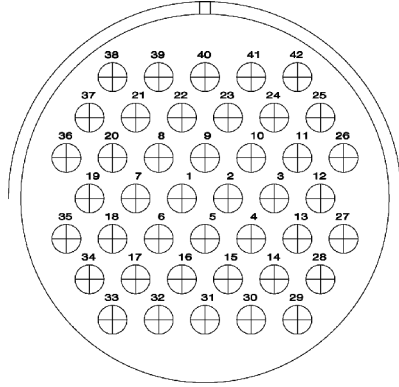
** On request (please consult our Sales Office)

INSERTI ISOLANTI E ZOCCOLI

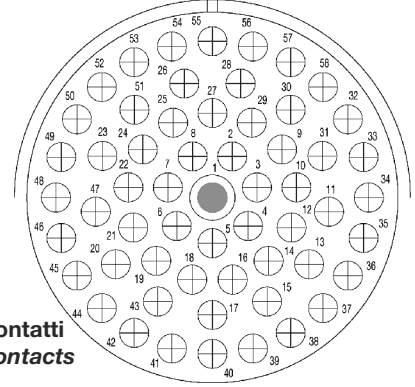
INSULATING INSERTS AND GROMMETS

**Elenco per quantità totale di contatti
(Disposizione solo per GVJ)**

**List by contacts total quantity
(GVJ arrangements only)**



**42 contatti
42 contacts**



**58 contatti
58 contacts**

**DISPOSIZIONE INSERTO
ARRANGEMENT**

48A-42**

48A-58**

**NUMERO CONTATTI
NO. OF CONTACTS**

42

58

**MISURA CONTATTO
CONTACT SIZE**

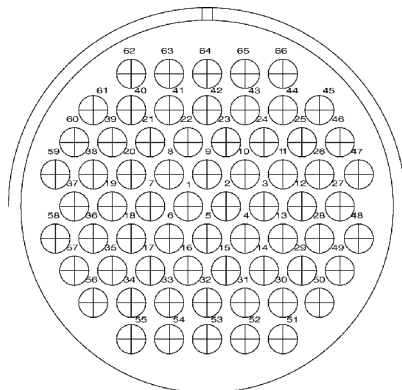
42-12

57-12, 1-8

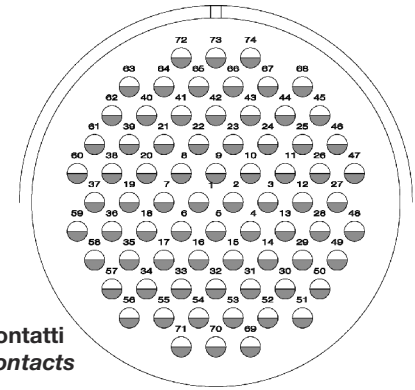
**CODICE SERVIZIO
SERVICE RATING**

D

A



**66 contatti
66 contacts**



**74 contatti
74 contacts**

**DISPOSIZIONE INSERTO
ARRANGEMENT**

48A-66**

48A-74**

**NUMERO CONTATTI
NO. OF CONTACTS**

66

74

**MISURA CONTATTO
CONTACT SIZE**

66-12

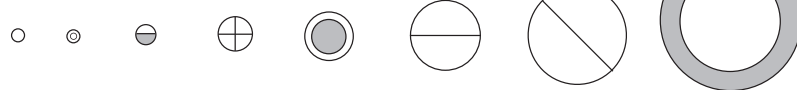
74-16

**CODICE SERVIZIO
SERVICE RATING**

A

A

Vista frontale inserto
contatti maschi



Legenda contatti

20 18 16 12 8 4 0 4/0

Front view male
contacts insert

Contacts legend

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

INSERTI ISOLANTI E ZOCCOLI
INSULATING INSERTS AND GROMMETS
**Elenco per misura del guscio
(Disposizione solo per CVBS e CVBSG)**
**List by shell size
(CVBS and CVBSG arrangements only)**
⁽¹⁾ Utilizzare contatti grandezza 16S

10SL-3 → 20-21
⁽¹⁾ To be used with 16S contacts size

Disposizione isolante Inserts arrangement			N° totale contatti Total contacts	Misura contatto / Contact size						Codice isolamento Service rating code	
				0	4	8	12	16	18		20
(*)	(G)	10SL-3 ⁽¹⁾	3					3			A
(*)	(G)	10SL-4 ⁽¹⁾	2					2			A
		14S-1 ⁽¹⁾	3					3			A
(*)	(G)	14S-2 ⁽¹⁾	4					4			I
(*)	(G)	14S-5 ⁽¹⁾	5					5			I
(*)	(G)	14S-6 ⁽¹⁾	6					6			I
(*)	(G)	14S-7 ⁽¹⁾	3					3			A
(*)		14S-9 ⁽¹⁾	2					2			A
(*)		14SA-7 ⁽¹⁾	7					7			I
(*)	(G)	16S-1 ⁽¹⁾	7					7			A
(*)	(G)	16S-4 ⁽¹⁾	2					2			D
(*)	(G)	16S-5 ⁽¹⁾	3					3			A
(*)		16S-8 ⁽¹⁾	5					5			A
		16-2	1				1				E
		16-7	3			1		2			A
(*)		16-9	4				2	2			A
(*)	(G)	16-10	3				3				A
		16-11	2				2				A
		16-12	1		1						A
(*)		16A-5	5				2	3			(*)
		16A-10	10						10		A
(*)	(G)	18-1	10					10			B,C,F,G=A - Bal.=i
(*)		18-3	2				2				D
(*)	(G)	18-4	4					4			D
		18-5	3				2	1			D
		18-6	1		1						D
(*)		18-8	8				1	7			A
(*)		18-9	7				2	5			I
(*)	(G)	18-10	4				4				A
(*)	(G)	18-11	5				5				A
(*)		18-12	6					6			A
		18-13	4			1	3				A
		18-14	2		1			1			A
		18-16	1				1				C
(*)	(G)	18-19	10					10			A
(*)	(G)	18-20	5					5			A
	(G)	18-22	3					3			D
(*)		18A-5	5					5			(*)
		20-2	1	1							D
(*)		20-3	3				3				D
(*)	(G)	20-4	4				4				D
(*)	(G)	20-7	8					8			A,B,H,G=D - Bal.=A
		20-8	6			2		4			I
(*)		20-11	13					13			I
(*)	(G)	20-15	7				7				A
		20-16	9				2	7			A
		20-17	6				5	1			A
(*)		20-18	9				3	6			A
	(G)	20-19	3			3					A
		20-21	9				1	8			A

(*) Disposizione normalmente disponibile
(N) Nuovo inserto - (G) Grommet disponibile

(*) Standard available arrangements
(N) New insert - (G) Grommet available

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Elenco per misura del guscio
(Disposizione solo per CVBS e CVBSG)

List by shell size
(CVBS and CVBSG arrangements only)

20-22 → 24A-28

Disposizione isolante Inserts arrangement	N° totale contatti Total contacts	Misura contatto / Contact size						Codice isolamento Service rating code	
		0	4	8	12	16	18		20
	20-22	6			3		3		A
	20-23	2			2				A
(*)	20-24	4			2		2		A
(*) (G)	20-27	14					14		A
(*) (G)	20-29	17					17		A
(*) (G)	20-33	11					11		A
(*) (G)	20A-48	19					19		I
(*)	20B-8	8			4	4			(*)
(*) (G)	22-1	2			2				D
(*) (G)	22-2	3			3				D
	22-4	4			2	2			A
	22-5	6				2	4		D
	22-6	3			2		1		D
	22-7	1	1						E
	22-8	2				2			E
	22-9	3				3			E
	22-11	2					2		B
	22-12	5			2		3		D
(*) (G)	22-14	19					19		A
	22-15	6				5	1		D=E - Bal.=A
	22-17	9				1	8		A=D - Bal.=A
(*) (G)	22-18	8					8		A,B,F,G,H=D - Bal.=A
(G)	22-19	14					14		A
(*) (G)	22-21	3	1				2		A
(*) (G)	22-22	4			4				A
(*) (G)	22-23	8				8			H=D - Bal.=A
	22-28	7				7			A
(N) (G)	22A3	3				3			(*)
(*) (G)	22A-10	10					10		A
(*)	22A-24	24				3		21	(*)
(*) (G)	24-2	7				7			D
(*) (G)	24-5	16					16		A
	24-6	8				8			A,G,H=D - Bal.=A
(G)	24-7	16				2	14		A
(G)	24-9	2		2					A
(*) (G)	24-10	7			7				A
(*) (G)	24-11	9			3	6			A
(*)	24-12	5		2		3			A
(*) (G)	24-19	12					12		A
(*) (G)	24-20	11				2	9		D
	24-21	10			1		9		D
(*) (G)	24-22	4			4				D
(*) (G)	24-27	7					7		E
(*) (G)	24-28	24					24		I
	24-06	6			4		2		D
	24-67	19				19			A
(*)	24A-7	7				7			D
(*)	24A-16	16					16		(*)
(*) (G)	24A-25	25					25		I
(*) (G)	24A-28	28					28		I

(*) Disposizione normalmente disponibile
(N) Nuovo inserto - (G) Grommet disponibile

(*) Standard available arrangements
(N) New insert - (G) Grommet available

INSERTI ISOLANTI E ZOCCOLI
INSULATING INSERTS AND GROMMETS
**Elenco per misura del guscio
(Disposizione solo per CVBS e CVBSG)**
**List by shell size
(CVBS and CVBSG arrangements only)**
24A-55 → 32A-48

Disposizione isolante Inserts arrangement		N° totale contatti Total contacts	Misura contatto / Contact size							Codice isolamento Service rating code	
			0	4	8	12	16	18	20		
(*)		24A-55	55							55	I
(*)	(G)	28-1	9			3	6				A,J,E=D - Bal.=A
(*)		28-2	14				2	12			D
(*)	(G)	28-3	3			3					E
(*)		28-5	5		2		1	2			D
(*)	(G)	28-6	3		3						D
		28-9	12				6	6			D
(*)		28-10	7		2	2	3				G=D - Bal.=A
(*)	(G)	28-11	22				4	18			A
(*)	(G)	28-12	26					26			A
(*)	(G)	28-15	35					35			A
(*)	(G)	28-16	20					20			A
		28-17	15					15			M,N,P=D - R=B - Bal.=A
	(G)	28-18	12					12			M=C - A,B=A - G,H,J,K,L=D - Bal.=I
		28-19	10				4	6			H,M=B - A,B=D - Bal.=A
(*)		28-20	14				10	4			A
(*)	(G)	28-21	37					37			A
(*)		28-22	6		3			3			D
(*)	(G)	28-51	12				12				D
(*)		28-72	72							72	I
(N)	(G)	28A3	3			3					(*)
(*)		28A-9	9		4			5			A
(*)		28A-14	14				14				D
(N)	(G)	28-A16	16			2	14				(*)
(*)		28A-31	31			6				25	(*)
(*)	(G)	32-1	5	2			3				A=E - Bal.=D
		32-2	5		3			2			E
(*)	(G)	32-5	2	2							D
(*)	(G)	32-6	23		2	3	2	16			A
		32-7	35				7	28			A,B,h,j=l - Bal.=A
(*)	(G)	32-8	30				6	24			A
		32-13	23				5	18			D
(*)		32-15	8	2			6				D
(*)		32-17	4		4						D
(*)	(G)	32-22	54					54			A
(*)		32-31	31					31			A
(*)	(G)	32-59	42			2		40			A
		32-68	16		4			12			A
		32-76	19				19				A
(N)	(G)	32-79	5		4	1					(*)
(N)	(G)	32-A3	3		3						(*)
(*)		32A-5	5		5						(*)
(*)		32A-9	9		3			6			A
(*)	(G)	32A-13	13				13				D
(N)		32A-17	17			10				7	(*)
(*)		32A-22	22				22				A
(N)	(G)	32A-25	25				25				(*)
(*)	(G)	32A-30	30				10	20			A
(N)		32A-34	34			3	4		27		(*)
(N)	(G)	32A-48	48					48			(*)

 (*) Disposizione normalmente disponibile
 (N) Nuovo inserto - (G) Grommet disponibile

 (*) Standard available arrangements
 (N) New insert - (G) Grommet available

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Elenco per misura del guscio
(Disposizione solo per CVBS e CVBSG)

List by shell size
(CVBS and CVBSG arrangements only)

32A-55 → 40C-6

Disposizione isolante Inserts arrangement	N° totale contatti Total contacts	Misura contatto / Contact size						Codice isolamento Service rating code
		0	4	8	12	16	18	
(*) 32A-55	55					55		A
(*) 32A-101	101						101	(*)
(*) 32B-13	13			13				A
(*) (G) 36-3	6	3			3			D
(N) (G) 36-4	3	3						A=D - B/C=A
(*) 36-5	4	4						A
36-6	6	2	4					A
(*) (G) 36-7	47				7	40		A
36-8	47				1	46		A
36-9	31		1	2	14	14		A
(*) (G) 36-10	48					48		A
(*) (G) 36-15	35					35		M=D - Bal.=A
(N) 36-66	56				4	52		A
(N) (G) 36-77	7		7					D
(N) (G) 36A-7	7		7					(*)
(N) 36-A10	10		2	8				(*)
(*) (G) 36A-22	22				22			D
(N) (G) 36B-39	39			8		31		(*)
(N) (G) 36-D78	14			10		4		(*)
(*) (G) 40-9	47			1	22	24		A
(G) 40-10	29		4	9		16		A
(*) (G) 40-56	85					85		A
(N) (G) 40-62	60					60		(*)
(*) (G) 40-63	61					61		A
(N) (G) 40-951	41				25	16		A
(*) 40A3	3		3					E
(*) 40A62	62			2		60		A
(*) 40A-4	4	4						E
(*) 40A-5	5	5						(*)
(*) (G) 40A-8	8	4				4		E
(*) (G) 40A-10	8		4			4		D
(*) (G) 40A-14	14		8		6			A
(*) (G) 40A-20	20			2	18			D
(*) (G) 40A-25	25		1		24			A
(*) (G) 40A-31	31				31			D
(*) (G) 40A-35	35				35			D
(N) (G) 40A-38	38				38			(*)
(*) 40A-47	47			1	22	24		A
(*) (G) 40A-60	60					60		A
(N) (G) 40A-65	65					65		A
(*) 40A-100	100						100	A
(*) 40A-150	150						150	I
(*) 40A-201	201						201	(*)
40B-3	5	3			2			A
(*) 40B-37	37				37			A
(N) 40C-3	3	3						(*)
(N) 40C-6	6	3			3			(*)

(*) Disposizione normalmente disponibile
(N) Nuovo inserto - (G) Grommet disponibile

(*) Standard available arrangements
(N) New insert - (G) Grommet available

INSERTI ISOLANTI E ZOCCOLI

Elenco per misura del guscio
e per quantità totale contatti
(Disposizione solo per GVJ)

INSULATING INSERTS AND GROMMETS

List by shell size and by contacts total
quantity (GVJ arrangements only)

B

Disposizione isolante <i>Inserts arrangement</i>	N° totale contatti <i>Total contacts</i>	Misura contatto/ <i>Contact size</i>							Codice isolamento <i>Service rating code</i>	
		4/0	0	4	8	12	16	18		20
(*) 48A-4 ⁽¹⁾	4	4								D
48A-9	9		6			3				D
48A-12	12		7		5					A
48A-14	14		4			10				D
48A-42	42					42				D
48A-58	58				1	57				A
48A-66	66					66				A
48A-74	74						74			A

⁽¹⁾ In materiale termoplastico

⁽¹⁾ In thermoplastic material

(*) Disposizione normalmente disponibile

(*) Standard available arrangements

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)

List by contacts total quantity
(CVBS and CVBSG arrangements only)

⁽¹⁾ Utilizzare contatti grandezza 16S

1 → 4

⁽¹⁾ To be used with 16S contacts size

Disposizione isolante Inserts arrangement		N° totale contatti Total contacts	Misura contatto / Contact size							Codice isolamento Service rating code	
			0	4	8	12	16	18	20		
		16-2	1				1				E
		16-12	1		1						A
		18-6	1		1						D
		18-16	1				1				C
		20-2	1	1							D
		22-7	1	1							E
(*)	(G)	10SL-4 ⁽¹⁾	2					2			A
(*)		14S-9 ⁽¹⁾	2					2			A
(*)	(G)	16S-4 ⁽¹⁾	2					2			D
		16-11	2				2				A
(*)		18-3	2				2				D
		18-14	2		1			1			A
		20-23	2			2					A
(*)	(G)	22-1	2			2					D
		22-8	2				2				E
		22-11	2					2			B
	(G)	24-9	2		2						A
(*)	(G)	32-5	2	2							D
(*)	(G)	10SL-3 ⁽¹⁾	3					3			A
		14S-1 ⁽¹⁾	3					3			A
(*)	(G)	14S-7 ⁽¹⁾	3					3			A
(*)	(G)	16S-5 ⁽¹⁾	3					3			A
		16-7	3			1		2			A
(*)	(G)	16-10	3				3				A
		18-5	3				2	1			D
	(G)	18-22	3					3			D
(*)		20-3	3				3				D
	(G)	20-19	3			3					A
(*)	(G)	22-2	3			3					D
		22-6	3			2		1			D
		22-9	3				3				E
(*)	(G)	22-21	3	1				2			A
(N)	(G)	22A3	3				3				(*)
(*)	(G)	28-3	3			3					E
(*)	(G)	28-6	3		3						D
(N)	(G)	28A3	3			3					(*)
(N)	(G)	32-A3	3		3						(*)
(N)	(G)	36-4	3	3							A=D - B/C=A
(*)		40A3	3		3						E
(N)		40C-3	3	3							(*)
(*)	(G)	14S-2 ⁽¹⁾	4					4			I
(*)		16-9	4				2	2			A
(*)	(G)	18-4	4					4			D
(*)	(G)	18-10	4				4				A
		18-13	4			1	3				A
(*)	(G)	20-4	4				4				D
(*)		20-24	4			2		2			A
		22-4	4			2	2				A
(*)	(G)	22-22	4			4					A
(*)	(G)	24-22	4			4					D

(*) Disposizione normalmente disponibile
(N) Nuovo inserto - (G) Grommet disponibile

(*) Standard available arrangements
(N) New insert - (G) Grommet available

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)

List by contacts total quantity
(CVBS and CVBSG arrangements only)

⁽¹⁾ Utilizzare contatti grandezza 16S

4 → 8

⁽¹⁾ To be used with 16S contacts size

Disposizione isolante Inserts arrangement	N° totale contatti Total contacts	Misura contatto / Contact size							Codice isolamento Service rating code	
		0	4	8	12	16	18	20		
(*)	32-17	4		4						D
(*)	36-5	4	4							A
(*)	40A-4	4	4							E
(*)	(G) 14S-5 ⁽¹⁾	5					5			I
(*)	16S-8 ⁽¹⁾	5					5			A
(*)	16A-5	5				2	3			(*)
(*)	(G) 18-11	5				5				A
(*)	(G) 18-20	5					5			A
(*)	18A-5	5					5			(*)
	22-12	5			2		3			D
(*)	24-12	5		2		3				A
(*)	28-5	5		2		1	2			D
(*)	(G) 32-1	5	2			3				A=E - Bal.=D
	32-2	5		3			2			E
(N)	(G) 32-79	5		4	1					(*)
(*)	32A-5	5		5						(*)
(*)	40A-5	5	5							(*)
	40B-3	5	3			2				A
(*)	(G) 14S-6 ⁽¹⁾	6					6			I
(*)	18-12	6					6			A
	20-8	6			2		4			I
	20-17	6				5	1			A
	20-22	6			3		3			A
	22-5	6				2	4			D
	22-15	6				5	1			D=E - Bal.=A
	24-06	6			4		2			D
(*)	28-22	6		3			3			D
(*)	(G) 36-3	6	3			3				D
	36-6	6	2	4						A
(N)	40C-6	6	3			3				(*)
(*)	14SA-7 ⁽¹⁾	7					7			I
(*)	(G) 16S-1 ⁽¹⁾	7					7			A
(*)	18-9	7				2	5			I
(*)	(G) 20-15	7				7				A
	22-28	7				7				A
(*)	(G) 24-2	7				7				D
(*)	(G) 24-10	7			7					A
(*)	(G) 24-27	7					7			E
(*)	24A-7	7				7				D
(*)	28-10	7		2	2	3				G=D - Bal.=A
(N)	(G) 36-77	7		7						D
(N)	(G) 36A-7	7		7						(*)
(*)	18-8	8				1	7			A
(*)	(G) 20-7	8					8			A,B,H,G=D - Bal.=A
(*)	20B-8	8				4	4			(*)
(*)	(G) 22-18	8					8			A,B,F,G,H=D - Bal.=A
(*)	(G) 22-23	8				8				H=D - Bal.=A
	24-6	8				8				A,G,H=D - Bal.=A
(*)	32-15	8	2			6				D
(*)	(G) 40A-8	8	4				4			E

(*) Disposizione normalmente disponibile
(N) Nuovo inserto - (G) Grommet disponibile

(*) Standard available arrangements
(N) New insert - (G) Grommet available

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)

List by contacts total quantity
(CVBS and CVBSG arrangements only)

⁽¹⁾ Utilizzare contatti grandezza 16S

8 → 23

⁽¹⁾ To be used with 16S contacts size

Disposizione isolante Inserts arrangement			N° totale contatti Total contacts	Misura contatto / Contact size						Codice isolamento Service rating code	
				0	4	8	12	16	18		20
(*)	(G)	40A-10	8	4				4			D
		20-16	9				2	7			A
(*)		20-18	9				3	6			A
		20-21	9				1	8			A
		22-17	9				1	8			A=D - Bal.=A
(*)	(G)	24-11	9			3	6				A
(*)	(G)	28-1	9			3	6				A,J,E=D - Bal.=A
(*)		28A-9	9	4				5			A
(*)		32A-9	9	3				6			A
		16A-10	10						10		A
(*)	(G)	18-1	10					10			B,C,F,G=A - Bal.=i
(*)	(G)	18-19	10					10			A
(*)	(G)	22A-10	10					10			A
		24-21	10			1		9			D
		28-19	10				4	6			H,M=B - A,B=D - Bal.=A
(N)		36-A10	10	2	8						(*)
(*)	(G)	20-33	11					11			A
(*)	(G)	24-20	11				2	9			D
(*)	(G)	24-19	12					12			A
		28-9	12				6	6			D
	(G)	28-18	12					12			M=C - A,B=A - G,H,J,K,L=D - Bal.=I
(*)	(G)	28-51	12				12				D
(*)		20-11	13					13			I
(*)	(G)	32A-13	13				13				D
(*)		32B-13	13		13						A
(*)	(G)	20-27	14					14			A
	(G)	22-19	14					14			A
(*)		28-2	14				2	12			D
(*)		28-20	14				10	4			A
(*)		28A-14	14				14				D
(N)	(G)	36-D78	14			10		4			(*)
(*)	(G)	40A-14	14	8		6					A
		28-17	15					15			M,N,P=D - R=B - Bal.=A
(*)	(G)	24-5	16					16			A
	(G)	24-7	16				2	14			A
(*)		24A-16	16					16			(*)
(N)	(G)	28-A16	16			2	14				(*)
		32-68	16	4				12			A
(*)	(G)	20-29	17					17			A
(N)		32A-17	17			10			7		(*)
(*)	(G)	20A-48	19					19			I
(*)	(G)	22-14	19					19			A
		24-67	19				19				A
		32-76	19				19				A
(*)	(G)	28-16	20					20			A
(*)	(G)	40A-20	20			2	18				D
(*)	(G)	28-11	22				4	18			A
(*)		32A-22	22				22				A
(*)	(G)	36A-22	22				22				D
(*)	(G)	32-6	23	2	3	2	16				A

(*) Disposizione normalmente disponibile
(N) Nuovo inserto - (G) Grommet disponibile

(*) Standard available arrangements
(N) New insert - (G) Grommet available

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Elenco per quantità totale di contatti
(Disposizione solo per CVBS e CVBSG)

List by contacts total quantity
(CVBS and CVBSG arrangements only)

⁽¹⁾ Utilizzare contatti grandezza 16S

23 → 201

⁽¹⁾ To be used with 16S contacts size

Disposizione isolante Inserts arrangement	N° totale contatti Total contacts	Misura contatto / Contact size							Codice isolamento Service rating code
		0	4	8	12	16	18	20	
	32-13	23			5	18			D
(*)	22A-24	24			3		21		(*)
(*) (G)	24-28	24				24			I
(*) (G)	24A-25	25				25			I
(N) (G)	32A-25	25			25				(*)
(*) (G)	40A-25	25	1		24				A
(*) (G)	28-12	26				26			A
(*) (G)	24A-28	28				28			I
(G)	40-10	29	4	9		16			A
(*) (G)	32-8	30			6	24			A
(*) (G)	32A-30	30			10	20			A
(*)	28A-31	31		6			25		(*)
(*)	32-31	31				31			A
	36-9	31	1	2	14	14			A
(*) (G)	40A-31	31			31				D
(N)	32A-34	34		3	4		27		(*)
(*) (G)	28-15	35				35			A
	32-7	35			7	28			A,B,h,j=l - Bal.=A
(*) (G)	36-15	35				35			M=D - Bal.=A
(*) (G)	40A-35	35			35				D
(*) (G)	28-21	37				37			A
(*)	40B-37	37			37				A
(N) (G)	40A-38	38			38				(*)
(N) (G)	36B-39	39		8		31			(*)
(N) (G)	40-951	41			25	16			A
(*) (G)	32-59	42		2		40			A
(*) (G)	36-7	47			7	40			A
	36-8	47			1	46			A
(*) (G)	40-9	47		1	22	24			A
(*)	40A-47	47		1	22	24			A
(N) (G)	32A-48	48				48			(*)
(*) (G)	36-10	48				48			A
(*) (G)	32-22	54				54			A
(*)	24A-55	55					55		I
(*)	32A-55	55				55			A
(N)	36-66	56			4	52			A
(N) (G)	40-62	60				60			(*)
(*) (G)	40A-60	60				60			A
(*) (G)	40-63	61				61			A
(*)	40A62	62		2		60			A
(N) (G)	40A-65	65				65			A
(*)	28-72	72					72		I
(*) (G)	40-56	85				85			A
(*)	40A-100	100					100		A
(*)	32A-101	101						101	(*)
(*)	40A-150	150					150		I
(*)	40A-201	201						201	(*)

(*) Disposizione normalmente disponibile
(N) Nuovo inserto - (G) Grommet disponibile

(*) Standard available arrangements
(N) New insert - (G) Grommet available

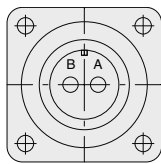
INSERTI ISOLANTI E ZOCCOLI

Rotazioni isolanti

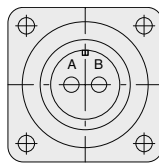
Per evitare errori nelle connessioni, quando più di un connettore con la stessa disposizione è utilizzato sullo stesso pannello, l'isolante deve essere opportunamente ruotato. In questo modo il connettore sarà accoppiabile solo con quello della stessa disposizione, orientato nello stesso modo.

Esempio: disposizione 14S-9

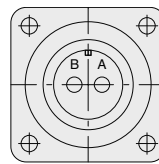
**Vista frontale
inserto maschio**
Rotazione del guscio
Front view
mating side
male insert
Shell rotation



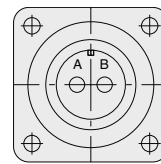
**Vista frontale
inserto femmina**
Rotazione del guscio
Front view
mating side
female insert
Shell rotation



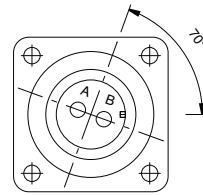
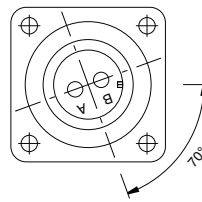
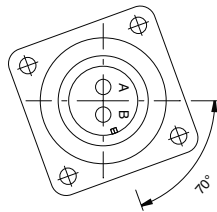
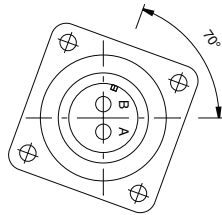
**Vista frontale
inserto maschio**
Rotazione dell'inserto
Front view
mating side
male insert
Insert rotation



**Vista frontale
inserto femmina**
Rotazione dell'inserto
Front view
mating side
female insert
Insert rotation

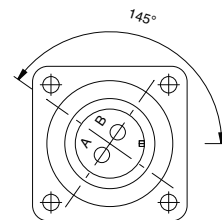
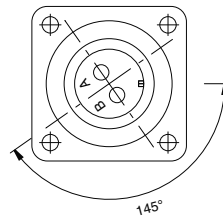
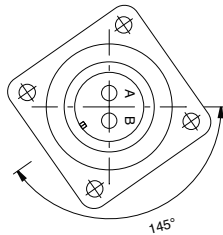
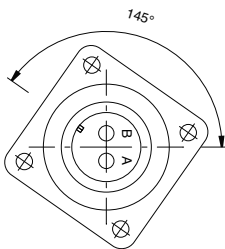


W



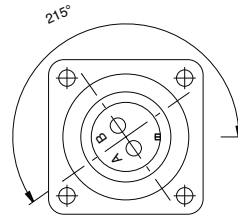
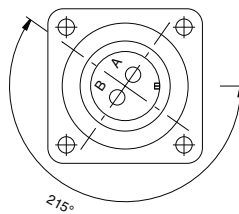
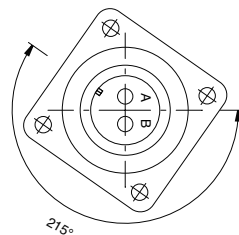
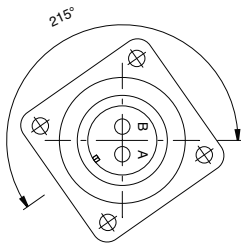
W

X



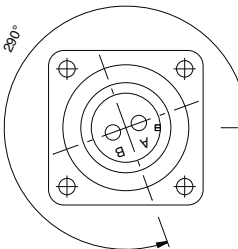
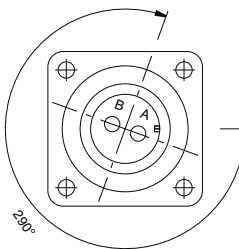
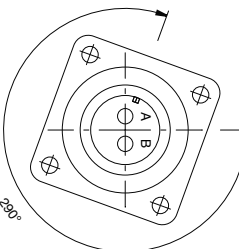
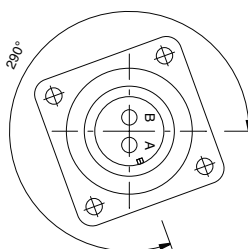
X

Y



Y

Z



Z

INSULATING INSERTS AND GROMMETS

Alternate insert positions

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.

Example: arrangement 14S-9

**Rotazioni isolanti
Elenco per misura del guscio**

**Alternate insert positions
List by shell size**

La seguente tabella elenca, per ogni tipo di isolante, le possibili rotazioni ottenibili.

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

10SL-3 → 20-24

Disposizione isolante Inserts arrangement	Gradi rotazione / Degrees for alternate positions				
	Q	W	X	Y	Z
10SL-3	180	-	-	-	-
14S-2	-	-	120	240	-
14S-5	-	-	110	-	-
14S-6	-	90	-	-	-
14S-7	-	90	180	270	-
14S-9	-	70	145	215	290
16S-1	-	80	-	-	280
16S-4	-	35	110	250	325
16S-5	-	70	145	215	290
16S-8	-	-	170	265	-
16-7	-	80	110	250	280
16-9	-	35	110	250	325
16-10	-	90	180	270	-
16-11	-	35	110	250	325
16-13	-	35	110	250	325
16A-10	-	35	112	235	315
18-1	-	70	145	215	290
18-3	-	35	110	250	325
18-4	-	35	110	250	325
18-5	-	80	110	250	280
18-8	-	70	-	-	290
18-9	-	80	110	250	280
18-10	-	-	120	240	-
18-11	-	-	170	265	-
18-12	-	80	-	-	280
18-13	-	80	110	250	280
18-14	-	80	110	250	280
18-15	-	-	120	240	-
18-19	-	-	120	240	-
18-20	-	90	180	270	-
18-22	-	70	145	215	290
20-3	-	70	145	215	290
20-4	-	45	110	250	-
20-5	-	35	110	250	325
20-7	-	80	110	250	280
20-8	-	80	110	250	280
20-12	-	80	110	250	280
20-15	-	80	-	-	280
20-16	-	80	110	250	280
20-17	-	90	180	270	-
20-18	-	35	110	250	325
20-19	-	90	180	270	-
20-21	-	35	110	250	325
20-22	-	80	110	250	280
20-23	-	35	110	250	325
20-24	-	35	110	250	325

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Rotazioni isolanti
Elenco per misura del guscio

Alternate insert positions
List by shell size

20-27 → 24-28

Disposizione isolante Inserts arrangement	Gradi rotazione / Degrees for alternate positions				
	Q	W	X	Y	Z
20-27	-	35	110	250	325
20-29	-	80	-	-	280
20-33	-	-	-	-	280
20A-8	-	35	110	250	325
20A-9	-	-	110	250	-
20A-10	-	-	65	-	295
20A-29	-	45	-	210	-
20A-48	-	-	80	280	-
22-1	-	35	110	250	325
22-2	-	70	145	215	290
22-4	-	35	110	250	325
22-5	-	35	110	250	325
22-6	-	80	110	250	280
22-8	-	35	110	250	325
22-9	-	70	145	215	290
22-11	-	35	110	250	325
22-12	-	80	110	250	280
22-14	-	80	110	250	280
22-15	-	80	110	250	280
22-17	-	80	110	250	280
22-18	-	80	110	250	280
22-19	-	80	110	250	280
22-21	-	80	110	250	280
22-22	-	-	110	250	-
22-23	-	35	-	250	-
22-27	-	80	-	250	280
22-28	-	80	-	-	280
22-34	-	80	110	250	280
22A-9	-	60	135	250	305
22A-10	-	-	120	240	-
22A-37	-	80	112	250	280
24-1	-	80	110	250	280
24-2	-	80	-	-	280
24-3	-	80	110	250	280
24-4	-	80	110	250	280
24-5	-	80	110	250	280
24-06	-	40	-	-	320
24-6	-	80	110	250	280
24-7	-	80	110	250	280
24-9	-	35	110	250	325
24-10	-	80	-	-	280
24-11	-	35	110	250	325
24-12	-	80	110	250	280
24-20	-	80	110	250	280
24-21	-	80	110	250	280
24-22	-	45	110	250	-
24-27	-	80	-	-	280
24-28	-	80	110	250	280

INSERTI ISOLANTI E ZOCCOLI
INSULATING INSERTS AND GROMMETS
Rotazioni isolanti
Alternate insert positions
Elenco per misura del guscio
List by shell size
24-67 → 32-17

Disposizione isolante Inserts arrangement	Gradi rotazione / Degrees for alternate positions				
	Q	W	X	Y	Z
24-67	-	80	-	-	335
24A-2	-	35	110	250	325
24A-6	-	42	134	262	339
24A-7	-	80	-	-	280
24A-11	-	35	110	250	325
24A-25	-	80	110	250	280
24A-28	-	65	146	235	-
24A-55	-	80	110	250	280
28-1	-	80	110	250	280
28-2	-	35	110	250	325
28-3	-	70	145	215	290
28-5	-	35	110	250	325
28-6	-	70	145	215	290
28-9	-	80	110	250	280
28-10	-	80	110	250	280
28-11	-	80	110	250	280
28-12	-	90	180	270	-
28-15	-	80	110	250	280
28-16	-	80	110	250	280
28-17	-	80	110	250	280
28-18	-	70	145	215	290
28-19	-	80	110	250	280
28-20	-	80	110	250	280
28-21	-	80	110	250	280
28-22	-	70	145	215	290
28-51	23	80	135	195	-
28-59	-	35	110	250	325
28-72	-	72	144	216	288
28A-7	-	60	166	270	320
28A-9	-	110	250	260	280
28A-10	-	80	135	195	-
28A-14	-	35	90	-	-
28A-31	-	35	-	260	310
28A-35	-	80	110	250	280
28A-63	-	-	100	260	-
28B-9	-	45	110	250	-
28B-35	-	80	110	250	280
28P-3	-	70	145	215	290
32-1	-	80	110	250	280
32-2	-	70	145	215	290
32-5	-	35	110	250	325
32-6	-	80	110	250	280
32-7	-	80	125	235	280
32-8	-	80	125	235	280
32-9	-	80	110	250	280
32-13	-	80	110	250	280
32-15	80	35	110	250	280
32-17	-	45	110	250	-

INSERTI ISOLANTI E ZOCCOLI

INSULATING INSERTS AND GROMMETS

Rotazioni isolanti
Elenco per misura del guscio

Alternate insert positions
List by shell size

32-22 → 40-10

Disposizione isolante Inserts arrangement	Gradi rotazione / Degrees for alternate positions				
	Q	W	X	Y	Z
32-22	-	80	110	250	280
32-31	-	80	125	215	280
32-40	-	35	130	-	-
32-59	-	36	108	252	324
32-68	-	65	135	225	275
32-76	-	80	110	250	280
32-79	-	-	-	-	-
32-101	-	30	142	-	-
32A-3	-	22	44	76	98
32A-5	-	90	180	270	-
32A-8	-	35	122	-	315
32A-9	-	65	135	225	275
32A-13	-	65	130	230	295
32A-14	-	35	90	-	-
32A-22	-	55	135	230	295
32A-25	-	60	120	-	-
32A-27	-	30	115	285	335
32A-30	-	65	-	-	-
32A-40	-	35	130	-	-
32A-48	-	80	130	-	-
32A-55	-	80	110	250	280
32A-69	-	-	110	250	-
32B-22	-	35	110	250	325
32D-2	-	80	110	-	-
36-3	-	70	145	215	290
36-4	-	70	145	215	290
36-5	-	45	120	240	-
36-6	-	35	110	250	325
36-7	-	80	110	250	280
36-8	-	80	110	250	280
36-9	-	80	125	235	280
36-10	-	80	125	235	280
36-15	-	60	125	245	305
36-54	-	67	-	-	-
36-66	-	110	250	260	280
36-77	-	-	90	-	-
36-78	-	35	106	254	325
36A-2	-	35	110	250	325
36A-10	-	45	110	250	315
36A-22	-	80	110	250	280
36A-48	-	65	-	-	-
36A-51	-	45	135	225	315
36A-61	-	80	-	-	280
36A-72	-	-	110	-	-
36B-78	-	35	106	254	325
36D-78	-	35	106	254	325
40-9	-	65	125	225	310
40-10	-	60	125	225	310

INSERTI ISOLANTI E ZOCCOLI

Rotazioni isolanti
Elenco per misura del guscio

INSULATING INSERTS AND GROMMETS

Alternate insert positions
List by shell size

40-19 → 40D-37

Disposizione isolante Inserts arrangement	Gradi rotazione / Degrees for alternate positions				
	Q	W	X	Y	Z
40-19	-	35	110	250	325
40-56	150	72	144	216	288
40-58	-	80	-	-	-
40-62	-	30	130	220	290
40-63	-	80	110	250	280
40-65	-	72	144	216	288
40A-2	-	35	110	250	325
40A-3	-	70	145	215	290
40A-4	-	45	110	155	
40A-5	-	33	-	-	270
40A-7	-	108	-	-	-
40A-8	-	35	110	250	325
40A-10	-	60	125	225	310
40A-14	-	80	135	195	-
40A-20	-	80	110	250	280
40A-21	-	50	130	260	280
40A-25	-	50	130	260	280
40A-27	-	45	110	250	315
40A-30	-	30	-	-	295
40A-31	-	80	110	250	280
40A-35	-	70	130	230	290
40A-37	-	80	110	250	280
40A-38	-	37	74	285	322
40A-47	-	65	125	225	310
40A-56	-	72	144	216	288
40A-60	-	80	110	250	280
40A-62	-	80	130	230	280
40A-100	-	30	105	230	315
40A-130	-	45	113	-	309
40B-4	-	45	110	-	-
40B-19	-	35	105	225	325
40B-37	-	30	135	-	-
40D-4	-	45	110	-	-
40D-37	-	80	110	250	280

GUSCI CONNETTORI

I gusci di queste serie sono realizzati in lega di alluminio e vengono protetti dalla corrosione con i seguenti trattamenti:

- **(F7) verniciatura epossiretanica di colore nero*** (non conduttivo) - Conforme alla direttiva RoHS*
- **(F16) trattamento conduttivo CCF-Black*** **esente da cadmio** - Conforme alla direttiva RoHS*
- **(F4) trattamento conduttivo CCF-Green** esente da cadmio

(*) Restriction of Hazardous Substances – Direttiva del parlamento Europeo n° 2011/65/EU.

Altri materiali e trattamenti sono disponibili e possono essere utilizzati in funzione delle esigenze.

Guscio 00 (se ordinato con accessori) (020 se ordinato senza accessori)

Connettore da paratia per montaggio fronte pannello con predisposizione per accessori posteriori.

È fornibile anche in versione con fori svasati o filettati (vedi p. 75).

CONNECTOR SHELLS

Shells are manufactured in aluminum alloy and can be protected against corrosion by the following finishes:

- **(F7) epoxy varnish*** - **colour black** (not conductive) - complies with RoHS directives*
- **(F16) CCF-Black*** **passivation cadmium free** (conductive) - complies with RoHS directives*
- **(F4) CCF-Green passivation cadmium free** (conductive)

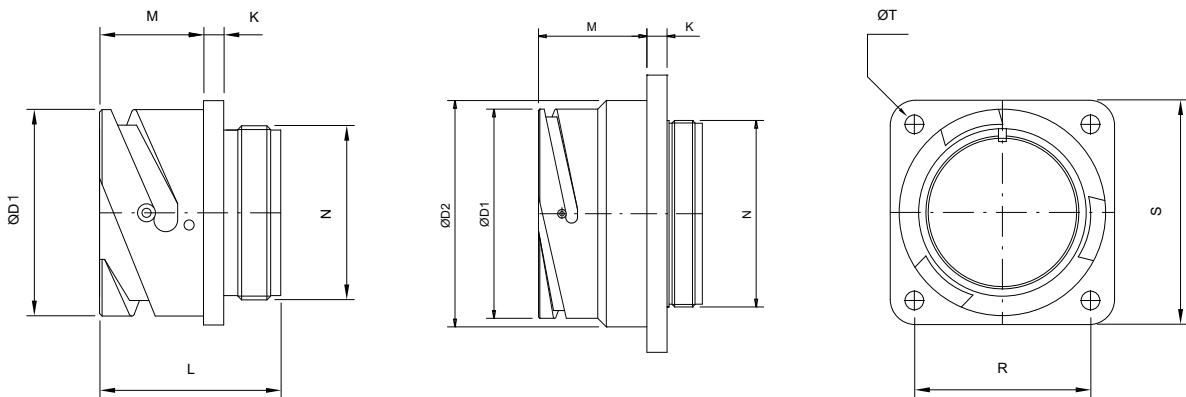
(*) Restriction of Hazardous Substances Directives of the European Parliament issued n° 2011/65/EU.

Alternative materials and finishes are available to suit specific requirements.

00 Shell (if ordered with accessories) (020 if ordered without accessories)

Front mounting receptacle connector able to accept rear accessories.

Also available with countersunk mounting holes or threaded mounting holes (see p. 75).



Misura guscio Shell size	ØD1 +0 -0.15	ØD2 ±0.1	K ±0.2	L ±0.3	M ±0.2	N Filettatura Thread	R ±0.1	S ±0.3	ØT ±0.2
10SL	18.2	-	2.8	25	14.2	5/8"-24 UNEF	18.2	25.4	3.1
14S	24.6	-	3.2	25	14.5	3/4"-20 UNEF	23	30.2	3.1
16S	27.4	-	3.2	24.7	14.2	7/8"-20 UNEF	24.6	32.5	3.1
16	27.4	-	3.2	34	19	7/8"-20 UNEF	24.6	32.5	3.1
18	30.8	-	4	34.3	19	1"-20 UNEF	27	34.9	3.1
20	34.2	-	4	34.3	19	1 1/8"-18 UNEF	29.4	38.1	3.1
22	37.4	-	4	34.3	19.7	1 1/4"-18 UNEF	31.8	41	3.1
24	40.9	-	4	36	20.6	1 3/8"-18 UNEF	34.9	44.5	3.7
28	46.7	-	4	36	20.6	1 5/8"-18 UNEF	39.7	50.8	3.7
32	53.4	-	4	37.5	22.2	1 7/8"-16 UN	44.5	57	4.4
36	59.6	-	4	37.5	22.2	2 1/16"-16 UN	49.2	63.5	4.4
40	65.5	-	4	37.5	22.2	2 5/16"-16 UN	55.6	69.8	4.4
GVJ	83	89.8	8	65	43	M74X1.5	90	110	8.5

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

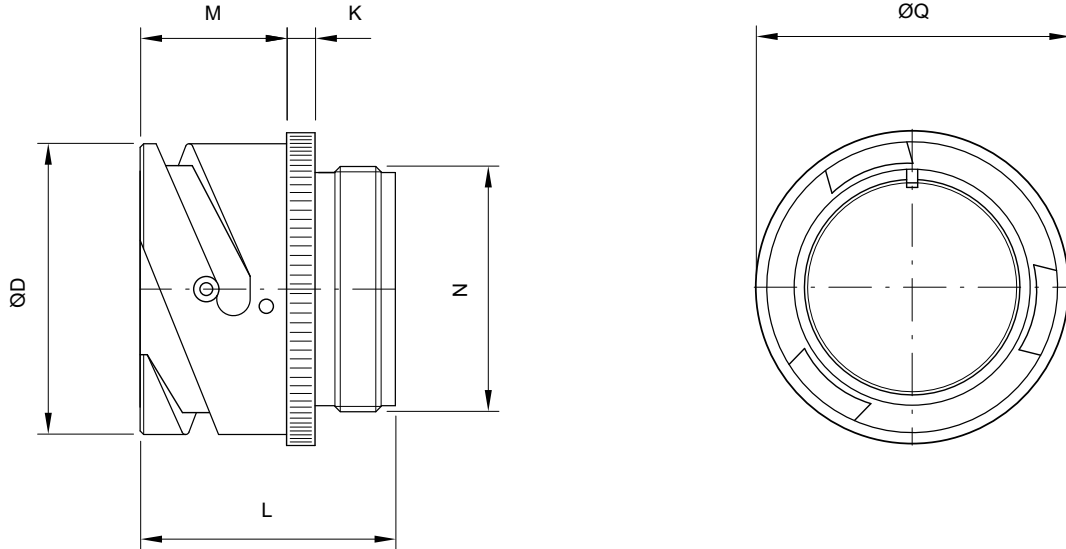
Guscio 01

Connettore per giunzioni volanti con predisposizione per accessori posteriori.

CONNECTOR SHELLS

01 Shell

Cable connecting plug able to accept rear accessories.



Misura guscio Shell size	ØD +0 -0.15	K ±0.2	L ±0.3	M ±0.2	N Filetto in pollici Thread in inches	ØQ ±0.2
10SL	18.2	2.8	25	14.2	5/8"-24 UNEF	22
14S	24.6	3.2	25.2	14.5	3/4"-20 UNEF	29
16S	27.4	3.2	24.7	14.2	7/8"-20 UNEF	31
16	27.4	3.2	34	19	7/8"-20 UNEF	31
18	30.8	4	34.3	19	1"-20 UNEF	34
20	34.2	4	34.3	19	1"1/8-18 UNEF	37
22	37.4	4	34.3	19.7	1"1/4-18 UNEF	40
24	40.9	4	36	20.6	1"3/8-18 UNEF	44
28	46.7	4	36	20.6	1"5/8-18 UNEF	49.5
32	53.4	4	37.5	22.2	1"7/8-16 UN	56
36	59.6	4	37.5	22.2	2"1/16-16 UN	62.5
40	65.5	4	37.5	22.2	2"5/16-16 UN	68.5

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

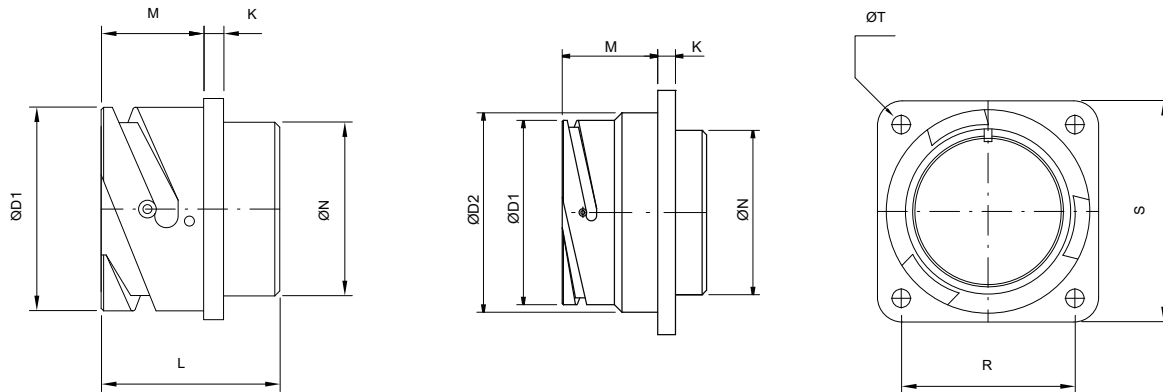
Guscio 02

Connettore da quadro per montaggio fronte pannello senza predisposizione per accessori posteriori.
È fornibile anche in versione con fori svasati o filettati (vedi p. 75).

CONNECTOR SHELLS

02 Shell

Front mounting receptacle connector unable to accept rear accessories.
Also available with countersunk mounting holes or threaded mounting holes (see p. 75).



Misura guscio Shell size	ØD1 +0 -0.15	ØD2 ±0.1	K ±0.2	L ±0.3	M ±0.2	ØN Max	R ±0.1	S ±0.3	ØT H13
10SL	18.2	-	2.8	25	14.2	16.3	18.2	25.4	3.1
14S	24.6	-	3.2	25	14.5	19.2	23	30.2	3.1
16S	27.4	-	3.2	24.7	14.2	22.4	24.6	32.5	3.1
16	27.4	-	3.2	34	19	22.4	24.6	32.5	3.1
18	30.8	-	4	34.3	19	25.6	27	34.9	3.1
20	34.2	-	4	34.3	19	28.8	29.4	38.1	3.1
22	37.4	-	4	34.3	19.7	32.2	31.8	41	3.1
24	40.9	-	4	36	20.6	35.2	34.9	44.5	3.7
28	46.7	-	4	36	20.6	41.5	39.7	50.8	3.7
32	53.4	-	4	37.5	22.2	47.8	44.5	57	4.4
36	59.6	-	4	37.5	22.2	52.6	49.2	63.5	4.4
40	65.5	-	4	37.5	22.2	59.2	55.6	69.8	4.4
GVJ	83	89.8	8	65	43	75	90	110	8.5

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

Guscio GVJ 030

(GVJ 038 se ordinato con raccordo a 90°)

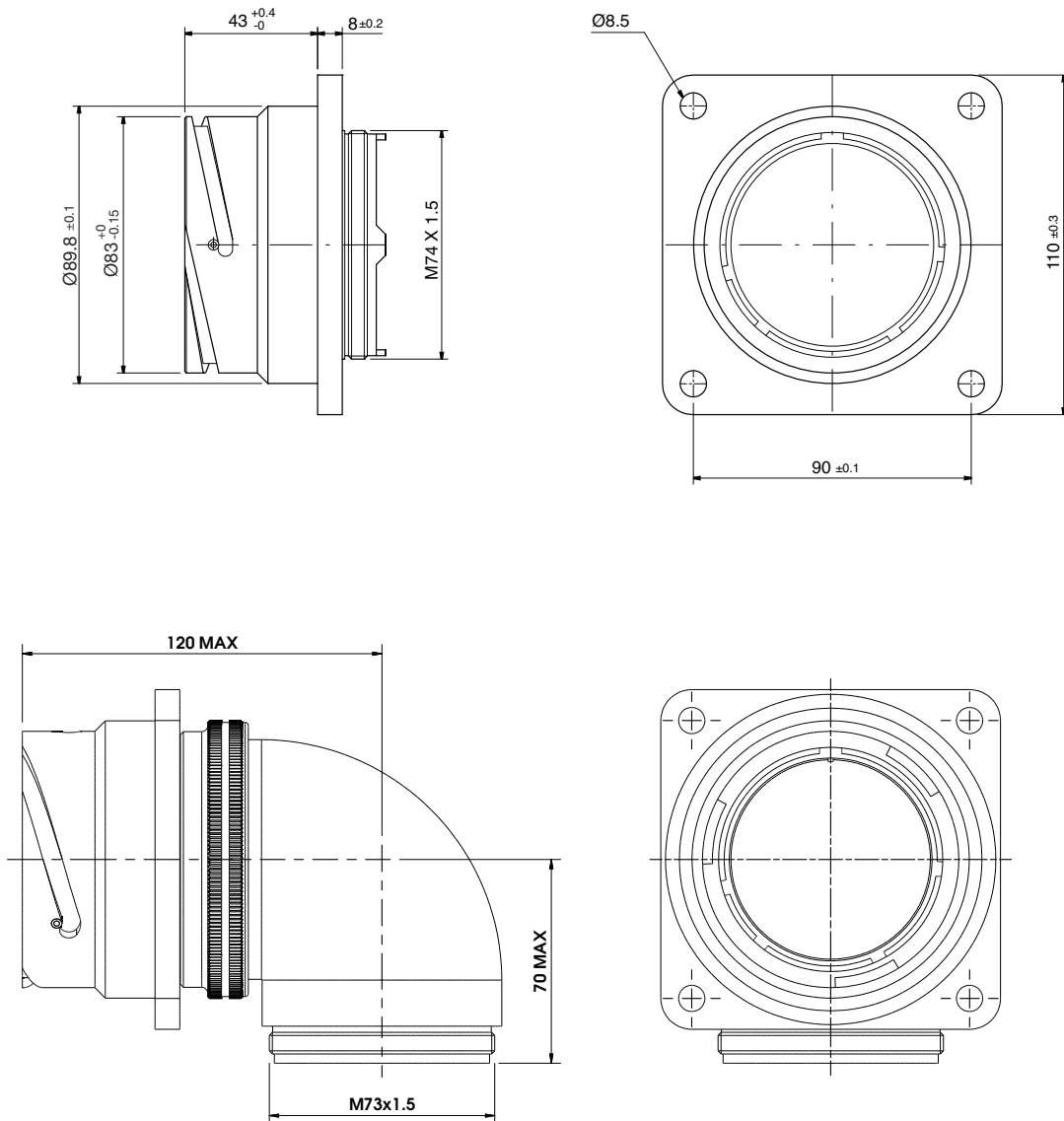
Connettore da paratia per montaggio retro pannello con predisposizione per accessori posteriori con uscita cavo diritta o a 90°. È fornibile anche in versione con fori svasati o passanti (vedi p. 75).

CONNECTOR SHELLS

GVJ 030 Shell

GVJ 038 (when ordered with 90° elbow)

Rear mounting receptacle connector with thread to accept straight or 90° backshells. Also available with countersunk mounting holes or through mounting holes (see p. 75).



GUSCI CONNETTORI

Guscio 03

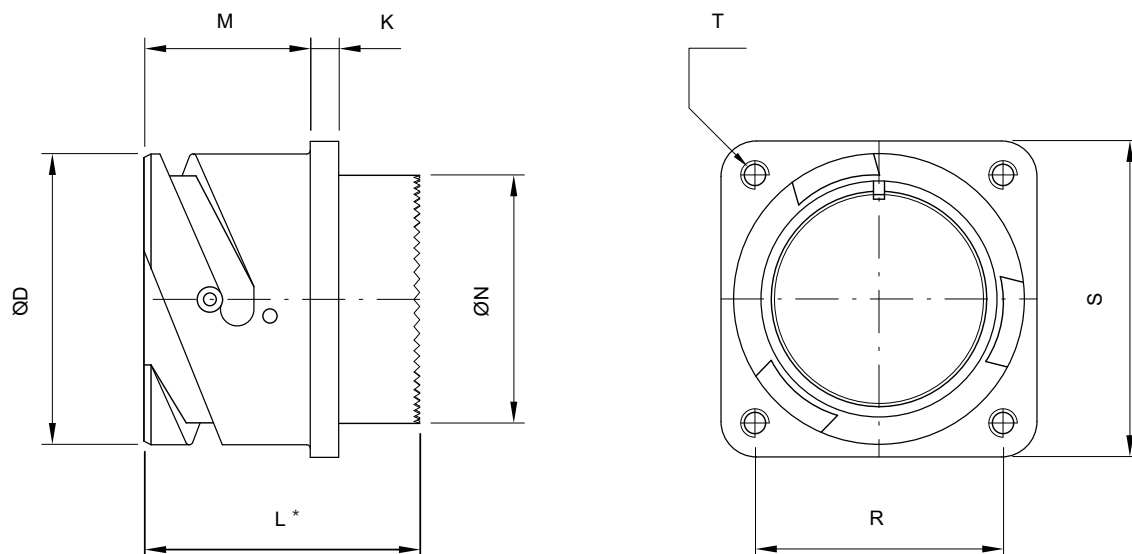
Connettore da quadro per montaggio retro pannello senza predisposizione per accessori posteriori.
È fornibile anche in versione con fori svasati o passanti (vedi p. 75).

CONNECTOR SHELLS

03 Shell

Rear mounting receptacle connector unable to accept rear accessories.

Also available with countersunk mounting holes or through mounting holes (see p. 75).



Misura guscio Shell size	ØD +0 -0.15	K ±0.2	L ±0.6	M ±0.2	ØN Max	R ±0.1	S ±0.3	T
10SL**	18.2	2.8	30	18.2	16.1	18.2	25.4	M4
14S	24.6	3.2	30	18.6	19.2	23	30	M4
16S	27.4	3.2	30	18.6	22.5	24.6	32.5	M4
16**	27.4	3.2	38.8	23.05	22.4	24.6	32.5	M4
18	30.8	4	38.5	23.4	25.6	27	35	M4
20	34.2	4	39.1	23.4	28.8	29.4	38	M4
22	37.4	4	39.3	23.4	32.2	31.8	41	M4
24	40.9	4	38.8	23.4	35.3	34.9	44.5	M4
28	46.7	4	39.1	24.4	41.5	39.7	50.8	M5
32	53.4	4	38.4	24.4	47.8	44.5	57	M5
36	59.6	4	39.9	24.4	52.6	49.2	63.5	M5
40	65.5	4	38.5	24.4	59.2	55.6	69.8	M5

Dimensioni in mm

Dimensions in mm

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

* Dimensione L fornibile a richiesta in dimensione ridotta

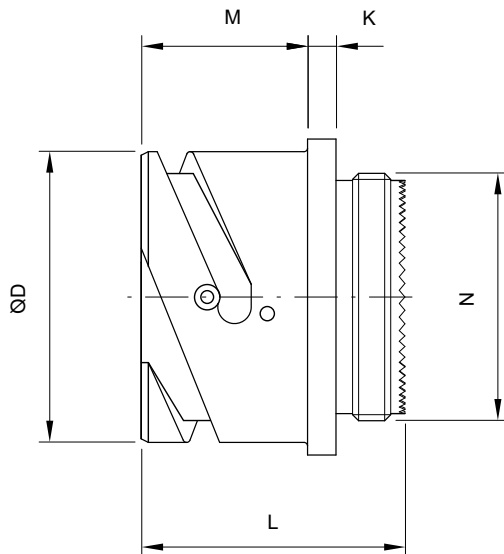
* L dimension could be supplied in reduced size

GUSCI CONNETTORI

Guscio 030 (038 se ordinato con raccordo a 90°)

Connettore da paratia per montaggio retro pannello con predisposizione per accessori posteriori con uscita cavo diritta o a 90°.

È fornibile anche in versione con fori svasati o passanti (vedi p. 75).

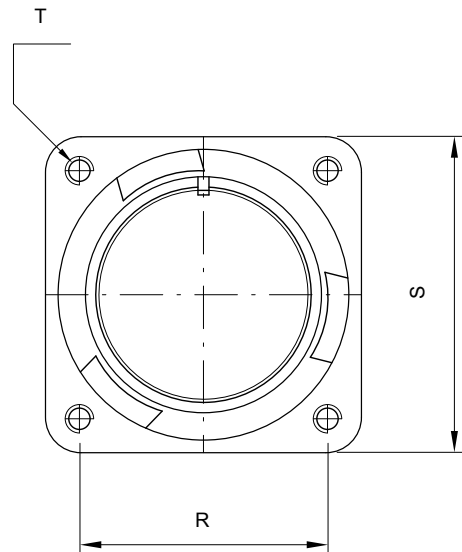


CONNECTOR SHELLS

030 Shell (038 when ordered with 90° elbow)

Rear mounting receptacle connector with thread to accept straight or 90° backshells.

Also available with countersunk mounting holes or through mounting holes (see p. 75).



Misura guscio Shell size	ØD +0 -0.15	K ±0.2	L ±0.6	M ±0.2	N Filetto in pollici Thread in inches	R ±0.1	S ±0.3	T
10SL**	18.2	2.8	30	18.2	5/8"-24 UNEF	18.2	25.4	M4
14S	24.6	3.2	30	18.6	3/4"-20 UNEF	23	30	M4
16S	27.4	3.2	30.1	18.6	7/8"-20 UNEF	24.6	32.5	M4
16**	27.4	3.2	38.8	23.05	7/8"-20 UNEF	24.6	32.5	M4
18	30.8	4	38.5	23.40	1"-20 UNEF	27	35	M4
20	34.2	4	39.1	23.40	1"1/8-18 UNEF	29.4	38	M4
22	37.4	4	39.3	23.40	1"1/4-18 UNEF	31.8	41	M4
24	40.9	4	38.8	23.40	1"3/8-18 UNEF	34.9	44.5	M4
28	46.7	4	39.1	24.40	1"5/8-18 UNEF	39.7	50.8	M5
32	53.4	4	38.4	24.40	1"7/8-16 UN	44.5	57	M5
36	59.6	4	39.9	24.40	2"1/16-16 UN	49.2	63.5	M5
40	65.5	4	38.5	24.40	2"5/16-16 UN	55.6	69.8	M5

Dimensioni in mm

** A richiesta (consultare il nostro Ufficio Vendite)

Dimensions in mm

** On request (please consult our Sales Office)

GUSCI CONNETTORI

Guscio 07

Connettore da quadro per montaggio retro pannello senza predisposizione per accessori posteriori.
Il fissaggio avviene per mezzo di ghiera frontale.
È fornito completo di guarnizione per la tenuta stagna.

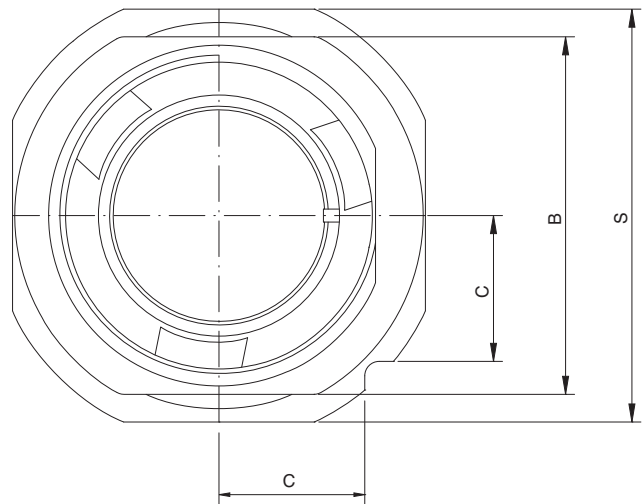
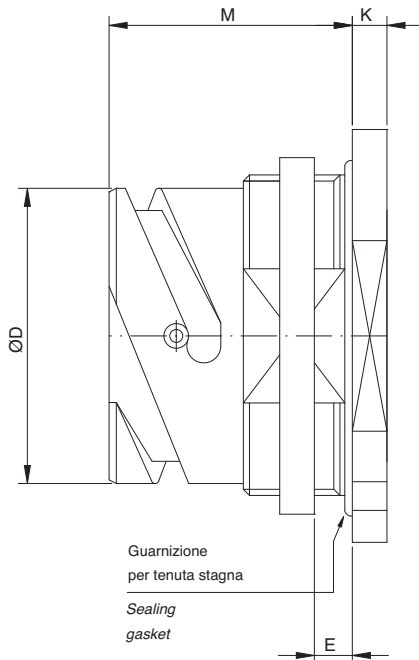
CONNECTOR SHELLS

07 Shell

Rear mounting receptacle connector unable to accept rear accessories.

Mounting is made by a front coupling-nut.

It is supplied with sealing gasket to guarantee waterproof protection.



Misura guscio Shell size	ØD +0 -0.15	K ±0.1	M ±0.2	E Spessore pannello Panel thickness		S ±0.25	B ±0.1	C ±0.1
				Min	Max			
10SL**	18.2	4	24.5	2.4	5.2	31.8	27	11.2
14S	24.6	4.8	26.8	2.4	7.5	41.3	33	14.6
16S	27.4	4.8	26.8	2.4	7.5	44.4	38	15.7
16**	27.4	4.8	32.1	2.4	7.5	44.4	38	15.7
18	30.8	4.8	33.7	2.4	9	47.6	39.7	16.8
20	34.2	4.8	33.7	2.4	8.1	50.8	44	18
22	37.4	4.8	33.7	2.4	9.1	54.2	46	20.2
24	40.9	4.8	33.7	2.4	9.1	57.2	50.8	20.2
28	46.7	5.6	35.2	2.4	8.5	63.5	55	22.5
32	53.4	5.6	35.2	2.4	6.5	69.8	62	24.7
36	59.6	5.6	35.2	2.4	8.3	76.2	71	26.9
40	65.5	5.6	35.2	2.4	8.3	83.5	75	29.6

Dimensioni in mm

Dimensions in mm

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

GUSCI CONNETTORI

Guscio 070 (078 se ordinato con raccordo a 90°)

Connettore da quadro per montaggio retro pannello con predisposizione per accessori posteriori con uscita cavo diritta o a 90°.

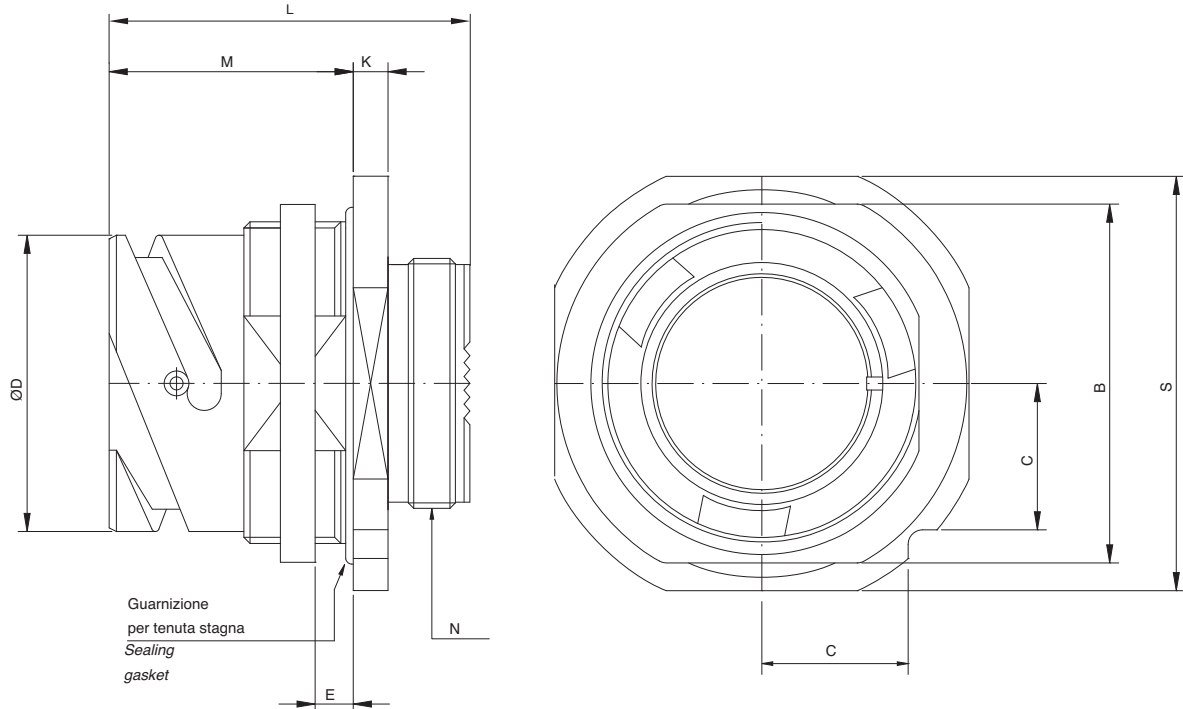
Il fissaggio avviene per mezzo di ghiera esagonale.
È fornito completo di guarnizione per la tenuta stagna.

CONNECTOR SHELLS

070 Shell (078 when ordered with 90° elbow)

Rear mounting receptacle connector with thread to accept straight or 90° backshells.

Mounting is made by a hexagonal coupling-nut.
It is supplied with sealing gasket to guarantee waterproof protection.



Misura guscio Shell size	ØD +0 -0.15	K ±0.1	M ±0.2	L ±0.3	N Filetto in pollici Thread in inches	E Spessore pannello Panel thickness		S ±0.25	B ±0.1	C ±0.1
						Min	Max			
10SL**	18.2	4	24.5	36.2	5/8"-24 UNEF	2.4	5.2	31.8	27	11.2
14S	24.6	4.8	26.8	39.8	3/4"-20 UNEF	2.4	7.5	41.3	33	14.6
16S	27.4	4.8	26.8	40.1	7/8"-20 UNEF	2.4	7.5	44.4	38	15.7
16**	27.4	4.8	32.1	48.9	7/8"-20 UNEF	2.4	7.5	44.4	38	15.7
18	30.8	4.8	33.7	49.3	1"-20 UNEF	2.4	9	47.6	39.7	16.8
20	34.2	4.8	33.7	50.2	1"1/8-18 UNEF	2.4	8.1	50.8	44	18
22	37.4	4.8	33.7	50.5	1"1/4-18 UNEF	2.4	9.1	54.2	46	20.2
24	40.9	4.8	33.7	50.5	1"3/8-18 UNEF	2.4	9.1	57.2	50.8	20.2
28	46.7	5.6	35.2	51.9	1"5/8-18 UNEF	2.4	8.5	63.5	55	22.5
32	53.4	5.6	35.2	51.9	1"7/8-16 UN	2.4	6.5	69.8	62	24.7
36	59.6	5.6	35.2	51.9	2"1/16-16 UN	2.4	8.3	76.2	71	26.9
40	65.5	5.6	35.2	51.9	2"5/16-16 UN	2.4	8.3	83.5	75	29.6

Dimensioni in mm

Dimensions in mm

** A richiesta (consultare il nostro Ufficio Vendite)

** On request (please consult our Sales Office)

GUSCI CONNETTORI

Guscio 06 - 96 - 08 - 98

Connettore volante con predisposizione per accessori posteriori.

È fornibile nelle seguenti versioni della serie CVBS:

- 06 per uscita cavo diritta
- 96 per uscita cavo diritta e completo di pettine di massa per schermatura
- 08 per uscita cavo a 90°
- 98 per uscita cavo a 90° e completo di pettine di massa per schermatura

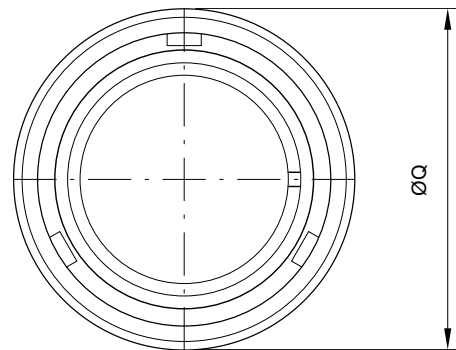
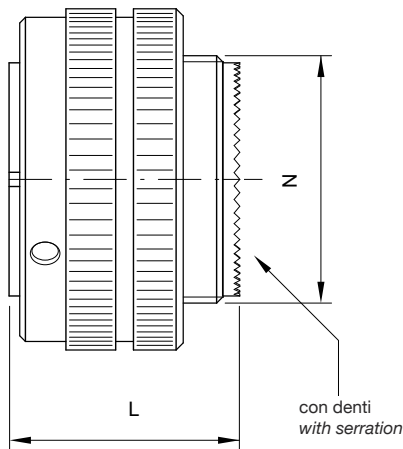
CONNECTOR SHELLS

06 - 96 - 08 - 98 Shell

Plug connector able to accept rear accessories.

It is available in the following versions for CVBS series:

- 06 with straight back shell
- 96 provided with grounding finger to guarantee shielding - with straight back shell
- 08 with 90° elbow
- 98 provided with grounding finger to guarantee shielding - with 90° elbow



Misura guscio Shell size	L ±0.2	Q ±0.2	N Filetto in pollici Thread in inches
10SL	25.5	23.3	5/8"-24 UNEF
14S	25.5	29.5	3/4"-20 UNEF
16S	25.8	33	7/8"-20 UNEF
16	35.2	33	7/8"-20 UNEF
18	35.2	37	1"-20 UNEF
20	35.4	41	1"1/8-18 UNEF
22	35.6	43	1"1/4-18 UNEF
24	35.6	48	1"3/8-18 UNEF
28	35.6	53	1"5/8-18 UNEF
32	37	60	1"7/8-16 UN
36	37	66.2	2"1/16-16 UN
40	38.2	72.4	2"5/16-16 UN

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

Guscio CVBS: 06GG - 96GG - 08GG - 98GG
Guscio GVJ: 06 - 08
Guscio CVBSG 06 e CVBSG 08

Connettore volante con predisposizione per accessori posteriori.

La ghiera è ricoperta in gomma nella serie CVBS e GVJ per protezione contro polvere e urti.

Nella serie CVBSG la ricopertura in gomma è anche a scopo antinfortunistico.

È fornibile nelle seguenti versioni:

Per la serie CVBS:

- 06GG per uscita cavo dritta
- 96GG per uscita cavo dritta e completo di pettine di massa per schermatura
- 08GG per uscita cavo a 90°
- 98GG per uscita cavo a 90° e completo di pettine di massa per schermatura

Per la serie GVJ:

- 06 per uscita cavo dritta
- 08 per uscita cavo a 90°

Per la serie CVBSG:

- CVBSG 06 - protezione antinfortunistica e uscita cavo dritta
- CVBSG 08 - protezione antinfortunistica e uscita cavo a 90°
- CVBSG 061 per uscita cavo dritta, ghiera ricoperta in gomma (ingombro ridotto),
- CVBSG 081 per uscita cavo a 90° ghiera ricoperta in gomma (ingombro ridotto)

CONNECTOR SHELLS

CVBS: 06GG - 96GG - 08GG - 98GG Shell
GVJ: 06 - 08 Shell
CVBSG 06 and CVBSG 08 Shell

Plug connector able to accept rear accessories. Rubber covered coupling nut able to protect series CVBS and GVJ against dust and impact.

In CVBSG series rubber coated nut is needed also for complete insulation against electrocution.

It is available in the following versions:

For CVBS series:

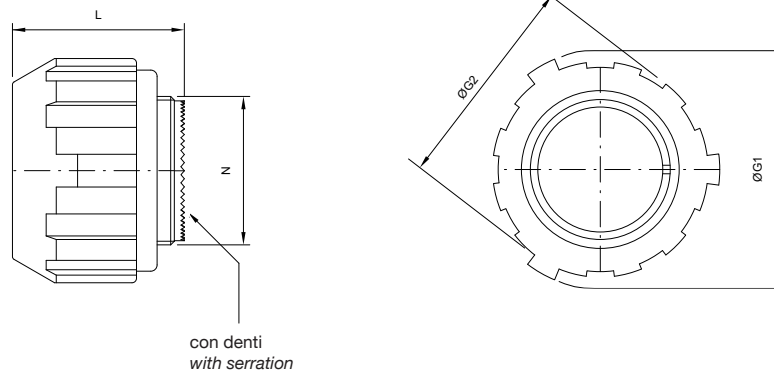
- 06GG with straight back shell
- 96GG provided with grounding finger to guarantee shielding - with straight back shell
- 08GG with 90° elbow
- 98GG provided with grounding finger to guarantee shielding - with 90° elbow

For GVJ series

- 06 with straight back shell
- 08 with 90° elbow

For CVBSG series:

- CVBSG 06 with straight protected back shell
- CVBSG 08 with 90° protected elbow
- CVBSG 061 with straight back shell, rubber covered coupling nut (reduced size)
- CVBSG 081 with 90° elbow, rubber covered coupling nut (reduced size)



Misura guscio Shell size	L Max	ØG1	ØG2	N Filetto in pollici Thread in inches
10SL	28	33.5	28.5	5/8"-24 UNEF
14S	28	40.2	34.7	3/4"-20 UNEF
16S	30	44.4	41.35	7/8"-20 UNEF
18	39	49	43.5	1"-20 UNEF
20	39	51.5	46	1"1/8-18 UNEF
22	39	56	50.5	1"1/4-18 UNEF
24	39	60	54	1"3/8-18 UNEF
28	39	67	61	1"5/8-18 UNEF
32	41	76	69	1"7/8-16 UN
36	41	82	73.5	2"1/16-16 UN
40	42	88	80	2"5/16-16 UN
GVJ	74	109	101	M74X1.5

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

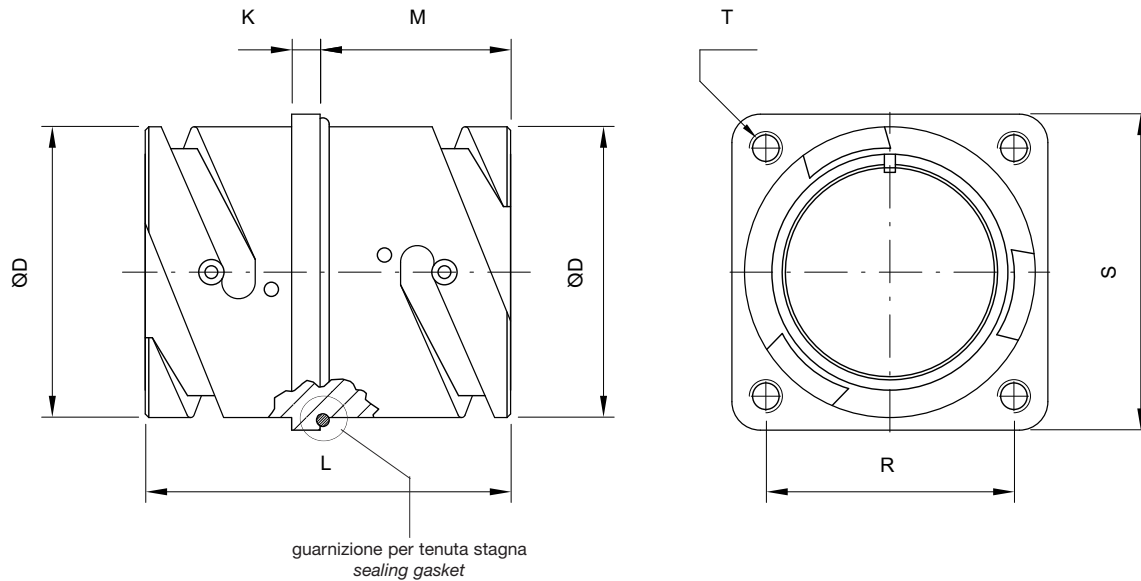
Guscio TB

Connettore passante da paratia. È fornibile per le serie CVBS nella versione con contatti maschio-femmina, maschio-maschio o femmina-femmina. È anche disponibile con fori passanti (vedi p. 75).

CONNECTOR SHELLS

TB Shell

Through-Bulkhead connector. Available for CVBS series in the following versions: male-female contacts, male-male or female-female contacts. Also available with through mounting holes (see p. 75).



Misura guscio Shell size	ØD +0 -0.15	K ±0.2	L ±1	M +0.4 -0	R ±0.1	S ±0.3	T
10SL	18.2	2.8	37.5	14.2	18.2	25.4	M4
14S	24.6	3.2	37.5	14.2	23	30.2	M4
16S	27.4	3.2	37.5	14.2	24.6	32.5	M4
16	27.4	3.2	51.4	19	24.6	32.5	M4
18	30.8	4	51.4	19	27	34.9	M4
20	34.2	4	51.6	19	29.4	38.1	M4
22	37.4	4	51.4	19	31.8	41	M4
24	40.9	4	51.4	20.6	34.9	44.5	M4
28	46.7	4	51.4	20.6	39.7	50.8	M5
32	53.4	4	51.4	22.2	44.5	57	M5
36	59.6	4	51.4	22.2	49.2	63.5	M5
40	65.5	4	51.4	22.2	55.6	69.8	M5

Dimensioni in mm

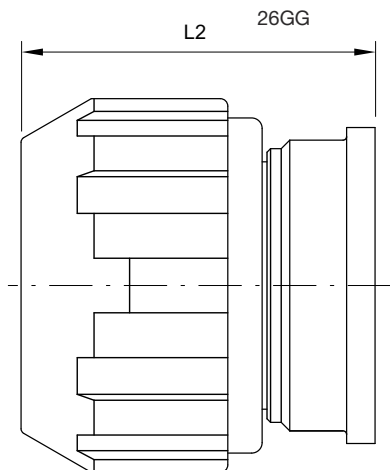
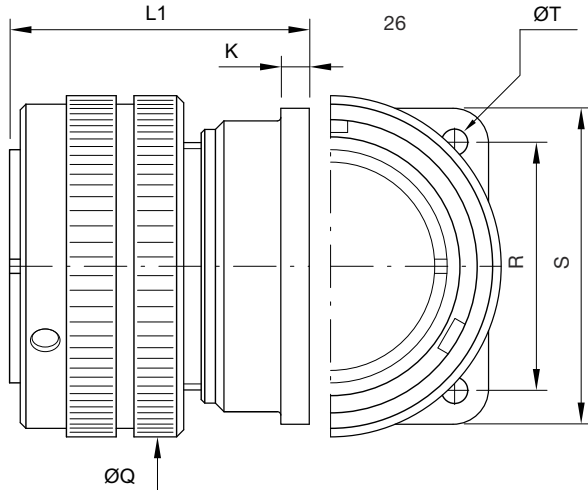
Dimensions in mm

GUSCI CONNETTORI

Guscio 26 - 26GG - 265

Connettore da quadro con ghiera per montaggio fronte pannello senza predisposizione per accessori posteriori. È accoppiabile con connettori con guscio 01 (vedi p. 61). Viene fornito con fori passanti o filettati (vedi p. 75) nelle seguenti versioni:

- 26 con ghiera standard per le serie CVB/CVBS e CVBR
- 265 con ghiera come guscio 65 per le serie CVBS e CVBR
- 26GG con ghiera ricoperta in gomma per le serie CVBS e CVBR.



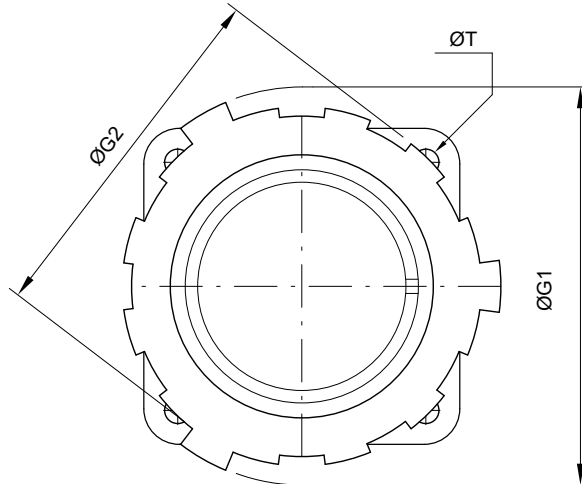
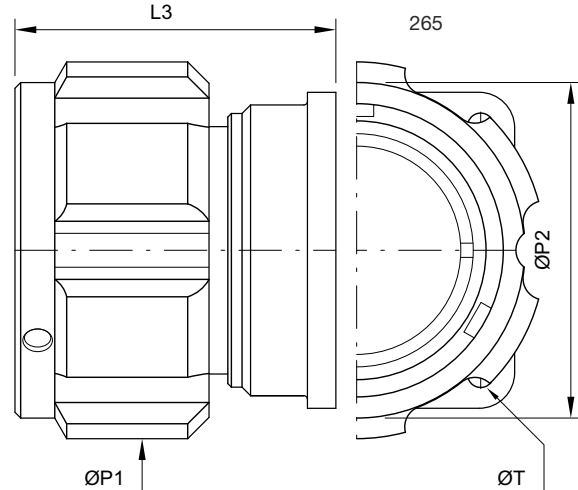
CONNECTOR SHELLS

26 - 26GG - 265 Shell

Receptacle connector with coupling-nut for panel front mounting unable to accept rear accessories. It is mateable with 01 shell connectors (see p. 61).

Available with through mounting or threaded mounting holes (see p. 75) in the following versions:

- 26 with std coupling-nut for CVB/CVBS and CVBR series
- 265 with c/nut as shell 65 for CVBS and CVBR series
- 26GG with rubber covered coupling-nut for CVBS and CVBR series.



Misura guscio Shell size	L1 Max 26	L2 Max 26GG	L3 Max 265	ØQ Max 26	ØG1 265	ØG2 265	ØP1 ±0.5 265	ØP2 ±0.5 265	R ±0.1	S ±0.3	K ±0.2	ØT ±0.2
10SL	37	41	*	23.3	33.5	28.5	*	*	18.2	25.4	2.8	3.1
14S	37.2	41.2	*	29.5	44.4	41.35	*	*	23	30	3.1	3.1
16S	37.2	*	*	33	*	*	*	*	24.6	32.5	3.2	3.1
16	38.3	*	*	33.6	*	*	*	*	24.6	32.5	3.2	3.1
18	38.3	42.3	*	37	49	43.5	*	*	27	34.9	4	3.1
20	38.3	42.3	38.3	41	51.5	46	46.4	40.9	29.4	38	4	3.1
22	38.8	44.8	*	43	56	50.5	*	*	31.75	41	4	3.1
24	40.8	44.8	40.8	48	60	54	53	47.4	34.9	44.45	4	3.7
28	41	45	41	53	67	61	60.3	54.8	39.7	50.8	4	3.7
32	43.9	48	43.9	60	76	69	67.1	61.8	44.5	57	4	4.4
36	45	49	*	66.2	82	73.5	*	*	49.2	63.5	4	4.4
40	45	49	45	72.4	88	80	79.1	73.6	55.6	69.8	4	4.4

Dimensioni in mm

Dimensions in mm

** A richiesta (consultare il nostro Ufficio Vendite)

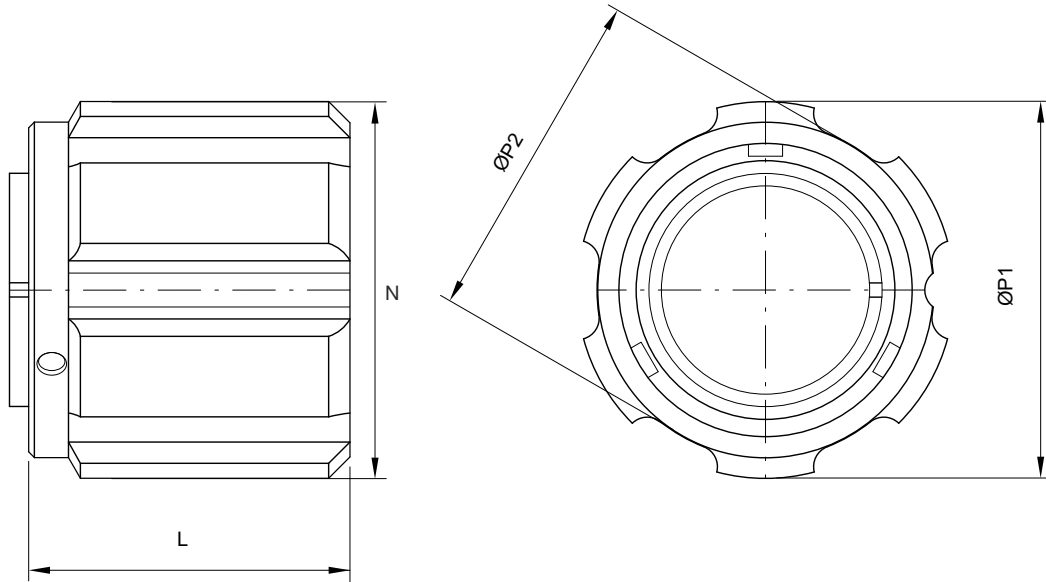
** On request (please consult our Sales Office)

GUSCI CONNETTORI**Guscio 65 - 965 versione HEAVY DUTY**

Connettore volante con predisposizione per accessori posteriori ed uscita cavo diritta. È fornibile per le serie CVBS e CVBR. La speciale ghiera d'innesto è particolarmente robusta ed è adatta ad essere maneggiata con guanti di lavoro. Il tipo 965 è completo di pettine di massa per la schermatura del connettore.

CONNECTOR SHELLS**65 - 965 Shell HEAVY DUTY version**

Plug connector able to accept rear accessories with straight backshell. Available for the series CVBS and CVBR. The special coupling-nut is particularly robust and is suitable to be used with working gloves. The type 965 is complete with grounding finger to guarantee the connector's shielding.



Misura guscio Shell size	L Max	ØP1 ±0.5	ØP2 ±0.5	N Filetto in pollici Thread in inches
20(*)	48	46.4	40.9	1"1/8-18 UNEF
24	50.5	53	47.4	1"3/8-18 UNEF
28	50.5	60.3	54.8	1"5/8-18 UNEF
32	50.5	67.1	61.8	1"7/8-16 UN
40	55	79.1	73.6	2"5/16-16 UN

Dimensioni in mm

Dimensions in mm

(*) Per la disponibilità di questa misura consultare l'Ufficio Vendite

(*) Consult our Sales Office for the availability of this size

GUSCI CONNETTORI

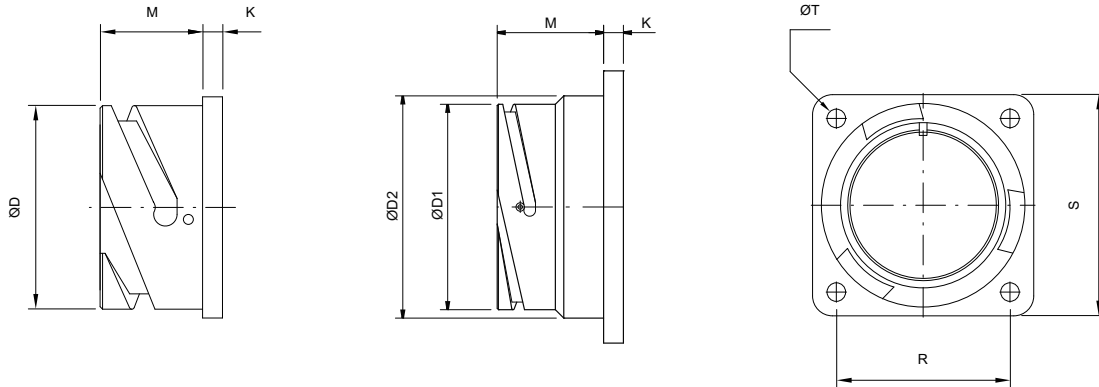
Guscio 05

Falso connettore da pannello. È utile per il posizionamento dei connettori volanti quando non sono connessi. È fornibile anche in versione con fori svasati o filettati (vedi p. 75).

CONNECTOR SHELLS

05 Shell

Dummy receptacle connector.
Useful to hold the plug connectors when not in use.
Also available with countersunk mounting holes or threaded mounting holes (see p. 75).



Misura guscio Shell size	ØD1 +0 -0.15	ØD2 ±0.1	K ±0.2	M ±0.2	R ±0.1	S ±0.3	ØT ±0.2
10SL	18.2	-	2.8	14.4	18.2	25.4	3.1
14S	24.6	-	3.2	14.3	23	30	3.1
16S	27.4	-	3.2	14.2	24.6	32.5	3.1
16	27.4	-	3.2	19	24.6	32.5	3.1
18	30.8	-	4	19.1	27	34.9	3.1
20	34.2	-	4	19.1	29.4	38	3.1
22	37.4	-	4	19.7	31.8	41	3.1
24	40.9	-	4	20.6	34.9	44.5	3.7
28	46.7	-	4	20.6	39.7	50.8	3.7
32	53.4	-	4	22.3	44.5	57	4.4
36	59.6	-	4	22.3	49.2	63.5	4.4
40	65.5	-	4	22.3	55.6	69.8	4.4
GVJ	83	89.8	8	43	90	110	8.5

Dimensioni in mm

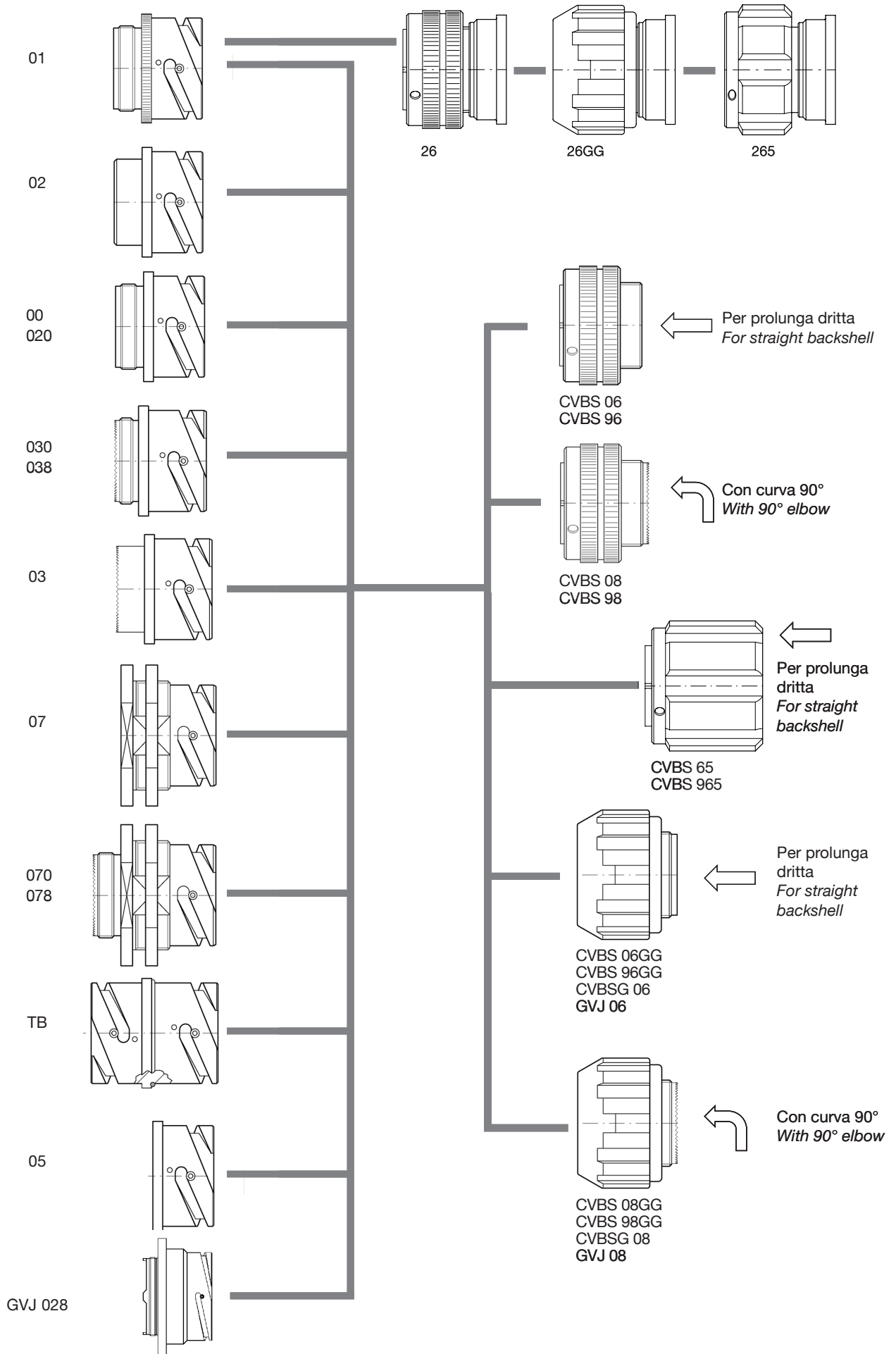
Dimensions in mm

GUSCI CONNETTORI

Tabella compatibilità

CONNECTOR SHELLS

Compatibility table



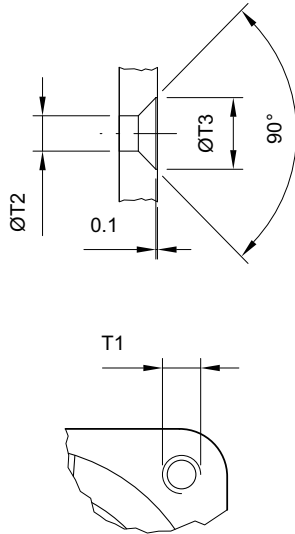
GUSCI CONNETTORI

Fori di fissaggio fornibili a richiesta

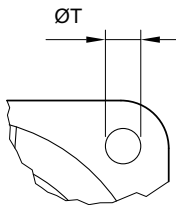
I connettori da pannello, quelli passanti da paratia e i falsi connettori da pannello possono essere forniti con fori di fissaggio diversi da quelli indicati nelle rispettive tabelle delle pagine precedenti.

Per le dimensioni consultare la tabella seguente.

Connettori da pannello con fissaggio frontale
Tipo guscio: 00 - 020 - 02 - 05



Connettori da pannello con fissaggio posteriore
Tipo guscio: 03 - 030 - 038 - TB



CONNECTOR SHELLS

Receptacle mounting holes, on request

The front/rear mounting panel connectors as well as through-bulkhead connectors and dummy receptacles can be also supplied with different mounting holes as shown on previous pages.

Please refer to the dimensional tables below.

Front mounting panel connectors
Shell version: 00 - 020 - 02 - 05

Misura guscio Shell size	Fori filettati Threaded holes T1	Fori svasati Countersunk holes	
		ØT2	ØT3
10SL	M4	3.2	6.5
14S	M4	3.2	6.5
16S	M4	3.2	6.5
16	M4	3.2	6.5
18	M4	3.2	6.5
20	M4	3.2	6.5
22	M4	3.2	6.5
24	M4*	3.7	7.5
28	M5	3.7	7.5
32	M5	4.3	8
36	M5	4.3	8.5
40	M5	4.3	8.5
GVJ	M8	-	-

Dimensioni in mm

Dimensions in mm

* = M4 fissaggio da retro pannello, M5 fissaggio da fronte pannello

* = M4 Rear mounting panel, M5 front mounting panel

Rear mounting panel connectors

Shell version: 03 - 030 - 038 - TB

Misura guscio Shell size	Fori passanti Through holes ØT H13
10SL	3.2
14S	3.2
16S	3.2
16	3.2
18	3.2
20	3.2
22	3.2
24	3.7
28	3.7
32	4.3
36	4.3
40	4.3
GVJ	8.5

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

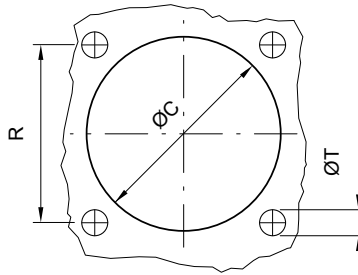
CONNECTOR SHELLS

Dimensioni di foratura pannello

Panel drilling dimensions

Tipo guscio: 00 - 020 - 02 - 03 - 030 - 038 - TB(*)

Shell version: 00 - 020 - 02 - 03 - 030 - 038 - TB(*)



Misura guscio Shell size	Guscio / Shell ** 00 - 020 - 02				Guscio / Shell 03 - 030 - 038 - TB		
	R ±0.1	ØC ±0.2	ØT Fori passanti Through holes	ØT Fori filettati Threaded holes	ØC ±0.2	ØT Fori passanti Through holes	ØT Fori filettati Threaded holes
10SL	18.2	17	3.4	4.5	19.1	3.4	4.5
14S	23	20	3.4	4.5	25.5	3.4	4.5
16S	24.6	23	3.4	4.5	28.3	3.4	4.5
16	24.6	23	3.4	4.5	28.3	3.4	4.5
18	27	26.5	3.4	4.5	31.7	3.4	4.5
20	29.4	30	3.4	4.5	35	3.4	4.5
22	31.75	33	3.4	4.5	38.3	3.4	4.5
24	34.9	36	3.9	5.5	41.8	3.9	4.5
28	39.7	42	3.9	5.5	47.6	3.9	5.5
32	44.5	48.5	4.5	5.5	54.3	4.5	5.5
36	49.2	55	4.5	5.5	60.5	4.5	5.5
40	55.6	61	4.5	5.5	66.4	4.5	5.5
GVJ	90	76	9	-	91.8	9	-

Dimensioni in mm

Dimensions in mm

(*) Per il guscio 00 il ØC dipende dalla classe del connettore
Per il guscio 05 non è richiesto il foro centrale ØC

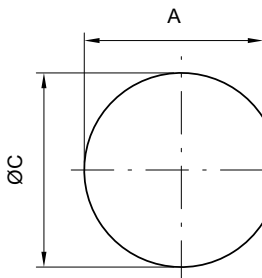
(*) For shell 00 the ØC depends on the connector class
For shell 05 central hole ØC is not required

(*) Per utilizzo con accessori, forare come 03-030-038-TB

(*) For use with accessories, to be drilled as 03-030-038-TB shell

Tipo guscio: 07 - 070 - 078

Shell version: 07 - 070 - 078



Misura guscio Shell size	ØC -0 +0.25	A +0 -0.35
10SL	22.4	21
14S	28.75	27.4
16S	31.95	30.95
16	31.95	30.95
18	35.1	33.75
20	38.3	36.85
22	41.45	40.05
24	44.65	43.35
28	51	49.55
32	57.35	55.95
36	63.7	62.35
40	70.05	68.55

Dimensioni in mm

Dimensions in mm

Misura guscio Shell size	Spessore pannello / Panel thickness			
	Max	Min	Max	Max
10SL	6	2.4	5.2	10
14S	7.2	2.7	7.5	9.6
16S	7.2	2.4	7.5	9.6
16	5.35	2.4	7.5	13.8
18	7.25	2.4	9	13
20	7.3	2.4	8.1	13
22	7.3	2.4	9.1	12.25
24	6.85	2.4	9.1	11.25
28	7.8	2.4	8.5	12.4
32	7.5	2.4	6.5	9
36	7.5	2.4	8.3	8.3
40	7.5	2.4	8.3	9
GVJ	-	-	-	-

Dimensioni in mm

Dimensions in mm

⁽¹⁾ Valide solo per il montaggio retro pannello, con ghiera non ricoperte in gomma (o con ghiera tipo 061/081)

⁽¹⁾ Valid only for rear mounting with no rubber cover nut (or with 061/081 shells)

Per utilizzi con ghiera ricoperte in gomma contattare il nostro ufficio vendite.

For use with coupling nut rubber covered, please consult our Sales Office.

GUSCI CONNETTORI

Caratteristiche di schermatura

I connettori volanti dotati di guscio con molla di schermo (Fig. 1) di tipo 96 - 98 - 96GG - 98GG, quando sono accoppiati con connettori fissi di tipo 02 - 020 - 00 - 01 - 030 - 038 - 070 - 078 e sono dotati di accessori predisposti per il collegamento di cavi schermati, hanno caratteristiche di schermatura conformi alle norme VG95234 (Fig. 2).

pettine di schermatura
grounding finger

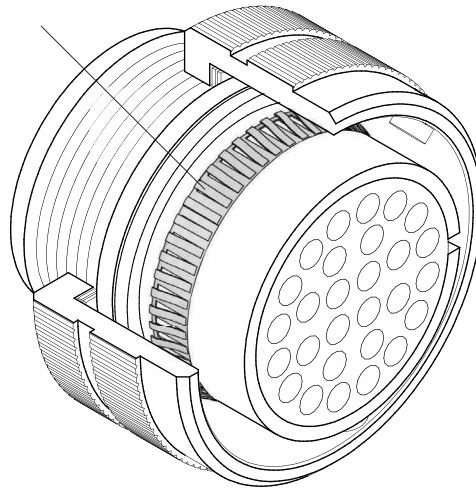


Fig. 1

CONNECTOR SHELLS

Shielding characteristics

Plug connectors with grounding finger (Fig. 1 - type 96 - 98 - 96GG - 98GG - 965) when mated with receptacle connectors (type 02 - 020 - 00 - 01 - 030 - 038 - 070 - 078) and provided with rear accessories for shielded cables have shielding characteristics according to VG95234 specs (Fig. 2).

Valori di attenuazione in funzione della frequenza (con gusci conduttivi)

Shielding effectiveness data over frequency range (with conductive shells)

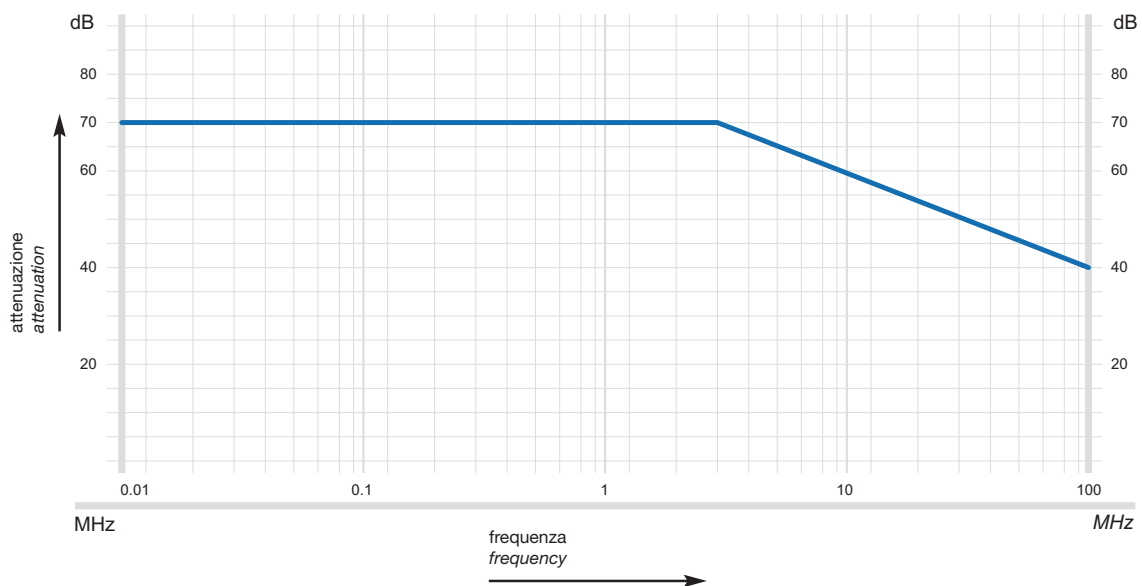


Fig. 2

GUSCI CONNETTORI

Tabella classi con accessori posteriori standard

Classe connettore	Disp. per serie CVBS	Disp. per serie CVBSG	Disp. per serie GVJ	Pres. di zoccolo poster.	A tenuta stagna	Ritenz. cavo	Cons. per cont. a pinzare ¹	Adatto per cavi singoli	Adatto per cavi multipol.	Guaine termo-restr.	Colleg. schermo	Guaina corazz.	Pagina
Connector class	Avail. for CVBS series	Avail. for CVBSG series	Avail. for GVJ series	Grommet	Watertight	Strain relief	Sugg. for crimp contacts ⁽¹⁾	Sugg. for single wires	Sugg. for multicore cables	Sugg. for heat shrink	Sugg. for shielded connection	Sugg. for jacketed conduit	Page
DA	•		•		•(3)	(2)		•(4)	•				80
LDA	•				•(3)	(2)	•	•(4)	•				82
DAM		•			•	•	•		•				110
RA	•		•	•	•(5)(6)	(2)		•	•				80
LRA	•			•	•(5)(6)	(2)	•	•	•				82
RAM		•			•	•	•		•				110
F	•			•	•(5)(7)	•		•	•				84
AC	•		•		•	•			•				86
ACF	•		•	•	•	•			•				86
LAC	•				•	•	•		•				88
LACF	•			•	•	•	•		•				88
DA...PG ⁽⁸⁾	•	•	•		•(9)	(2)	•	•(10)	•(10)			•(10)	90
DA...M ⁽⁸⁾	•	•	•		•(9)	(2)	•	•(10)	•(10)			•(10)	90
DA...FS...	•	•			•		•	•					92
RA...FS...	•	•		•	•		•	•					92
DA...MTG	•	•			•		•	•					94
RA...MTG	•	•		•	•		•	•					94
R ⁽⁸⁾	•			•	•(5)		•	•					97
AG ⁽⁸⁾	•				•		•		•	•			98
G ⁽⁸⁾	•			•	•(5)		•	•	•	•			98
G2 ⁽⁸⁾	•			•	•(5)		•	•	•	•			98
GV ⁽⁸⁾	•				•		•		•	•	•		102
SB ⁽⁸⁾	•			•	•		•		•	•	•		102
ASB1 ⁽⁸⁾	•				•	•	•		•		•		100
SB1 ⁽⁸⁾	•			•	•		•		•		•		100
AWN ⁽⁸⁾	•	•			•	•	•		•			•	104
WN ⁽⁸⁾	•	•		•	•	•	•		•			•	104
AMK ⁽⁸⁾	•	•			•		•		•		•		105
MK ⁽⁸⁾	•	•		•	•		•		•		•		105

(1) Le indicazioni si riferiscono a un cablaggio agevole nel caso di cavi multipolari con serracavo posteriore a tenuta stagna.

(2) Accessorio per la ritenzione del cavo da ordinare separatamente.

(3) Con cavi multipolari, per ottenere la tenuta stagna deve essere accompagnata da un serracavo di tipo MS 3057...C.

(4) Non a tenuta stagna.

(5) Nel caso di cavi singoli, la tenuta stagna è assicurata solo se lo zoccolo posteriore è correttamente dimensionato rispetto al diametro del loro isolante. Consigliamo di consultare il nostro Ufficio Vendite in caso di dubbio.

(6) Con cavo multipolare, la tenuta stagna è garantita solo se lo zoccolo posteriore è correttamente dimensionato rispetto all'isolante dei singoli conduttori oppure se si utilizza un serracavo di tipo MS 3057...C. Consigliamo di consultare il nostro Ufficio Vendite in caso di dubbio.

(7) Con cavo multipolare, la tenuta stagna è garantita solo se lo zoccolo posteriore è correttamente dimensionato rispetto all'isolante dei singoli conduttori. Consigliamo di consultare il nostro Ufficio Vendite in caso di dubbio.

(8) Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

(9) Per ottenere la tenuta stagna, deve essere accompagnata da un pressacavo PG/Metrico avente grado di protezione IP67.

(10) Se utilizzata con guaina e raccordo porta-guaina adatti.

CONNECTOR SHELLS

Table for standard rear accessories by class

(1) The information refers to a simple cable assembly of multicore cables with rear waterproof cable-clamp.

(2) Strain relief to be ordered separately.

(3) For multicore cables, watertightness is guaranteed only when this class is used with MS3057...C type cable-clamps.

(4) Non-waterproof.

(5) For single wires, watertightness is guaranteed only if the wire diameter matches the sealing range of the grommet. If in doubt, please consult our Sales Office.

(6) When used with multicore cable, the watertightness is guaranteed only if its single wires diameter matches the sealing range of the grommet or if a MS3057...C type cable-clamp is used. If in doubt, please consult our Sales Office.

(7) When used with multicore cable, the watertightness is guaranteed only if its single wires diameter matches the sealing range of the grommet. If in doubt, please consult our Sales Office.

(8) This class of accessories is not always available in stock for all the sizes; therefore we suggest you consult our Sales Office for availability.

(9) To guarantee watertightness, always use PG/metric adapters with IP67 protection.

(10) When used with a suitable conduit and conduit adapter.

GUSCI CONNETTORI

Classe connettore DA - RA

Dotata di prolunga con filetto esterno adatta per serracavo MS3057...tipo A o C (da ordinare separatamente - vedi p. 125-127). È fornibile per uscita cavi diritta o a 90°.

Classe DA: fornita di guarnizione per la tenuta stagna della prolunga. (Classe A senza guarnizione a richiesta)

Classe RA: come precedente, ma fornita di zoccolo posteriore.

CONNECTOR SHELLS

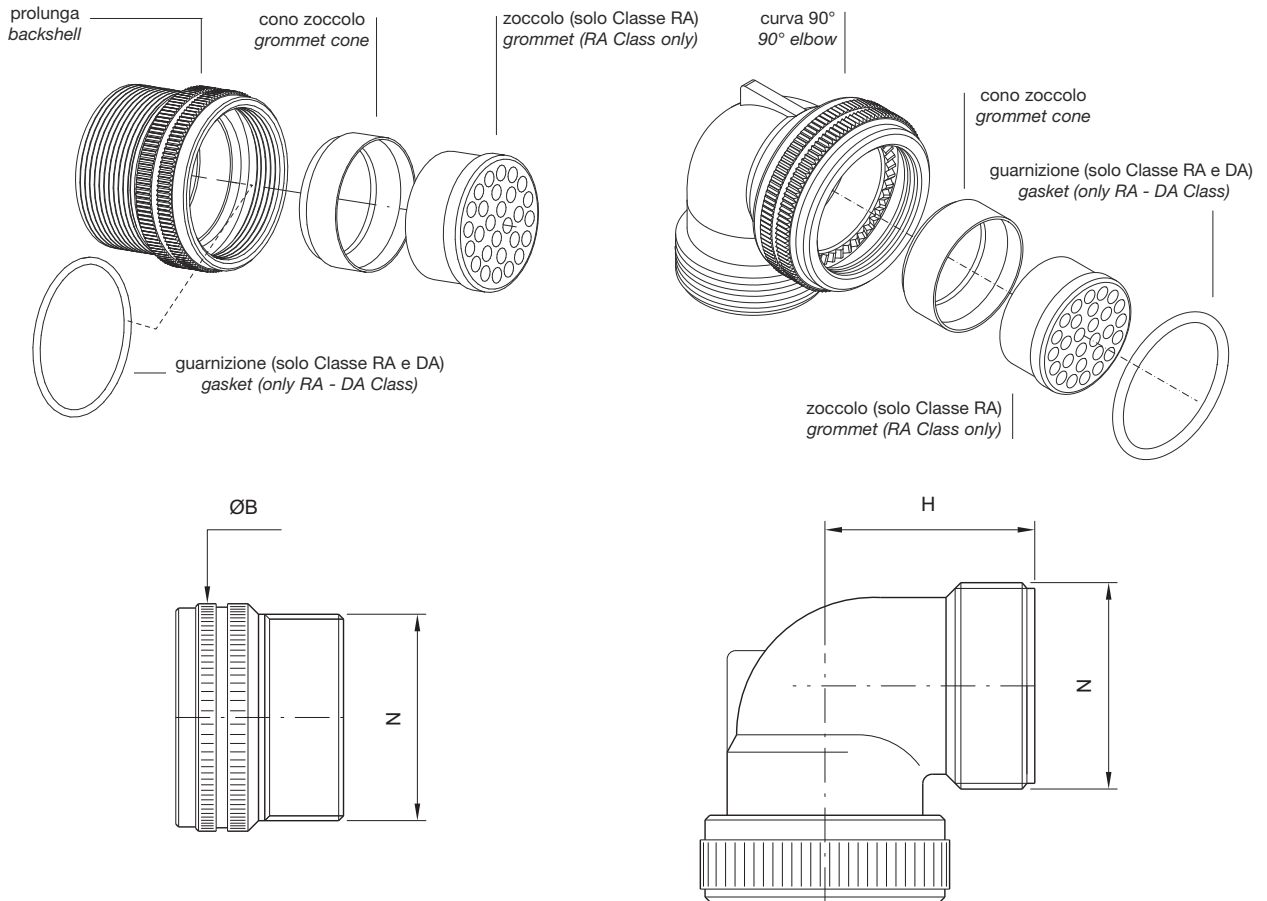
DA - RA Connector class

Connector with backshell having an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately - see p. 125-127).

Available with straight or 90° backshell.

DA Class: with waterproof O-ring. (A Class, without O-ring, on request)

RA Class: as DA class but with grommet.



Misura guscio Shell size	ØB ±0.2	H Max	N Filetto in pollici Thread in inches
10SL	20	-	5/8"-24 UNEF
14S	24	27	3/4"-20 UNEF
16S	27	29	7/8"-20 UNEF
16	27	29	7/8"-20 UNEF
18	30	31	1"-20 UNEF
20	32	33	1"3/16-18 UNEF
22	37	35	1"3/16-18 UNEF
24	40	38	1"7/16-18 UNEF
28	45	40	1"7/16-18 UNEF
32	52	46	1"3/4-18 UNS
36	58	49	2"-18 UNS
40	63.2	53	2"1/4-16 UN

Dimensioni in mm

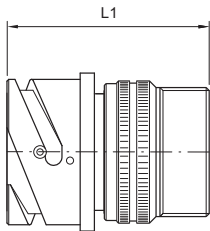
Dimensions in mm

Misura guscio Shell size	Tipo guscio / Shell version (1)									
	00	01	030	070	06-96	06GG 96GG	038	078	08-98	08GG 98GG
10SL	41	41	46	50	36	38.5				
14S	42.5	42.5	47.5	57.5	43	45.5	50	60	45.5	48
16S	42.5	42.5	47.5	58	43		51.5	61.5	47	
16	50	50	54.5	65	49		60	70.5	56.5	
18	52	52	55.5	66	52	56	61	71.5	57.5	61.5
20	51	51	55.5	67.5	52.5	56.5	63.5	75	60	63.5
22	54	54	58	69.5	55	59	65.5	77	62.5	65.5
24	54	54	58	68.5	55	59	68.5	81	65.5	69
28	62	62	65	78	62	66	69	83	65.5	69
32	63	63	65	78	62	66	72.5	85	70	74
36	63	63	65	78	62	66	76	89	73.5	77.5
40	63	63	65	78	64	68	80	92.5	78.5	82.5

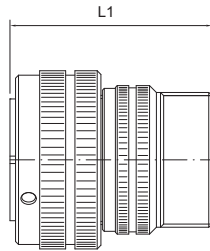
Dimensioni in mm

Dimensions in mm

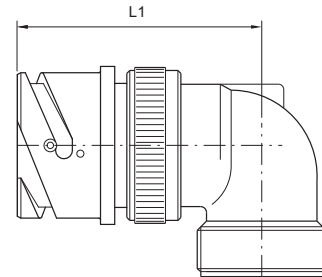
CVBS 00



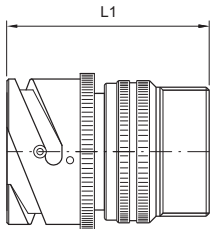
CVBS 06
CVBS 96



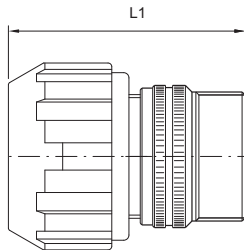
CVBS 038



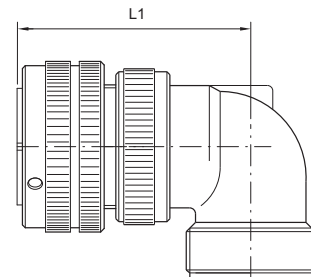
CVBS 01



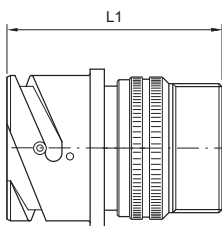
CVBS 06GG
CVBS 96GG



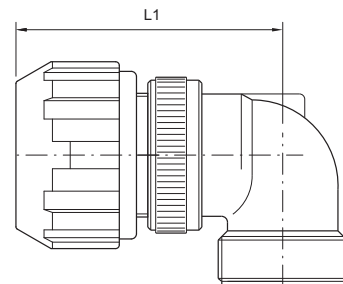
CVBS 08
CVBS 98



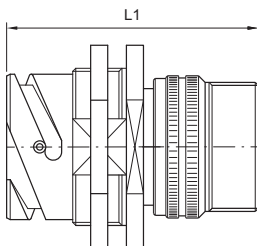
CVBS 030



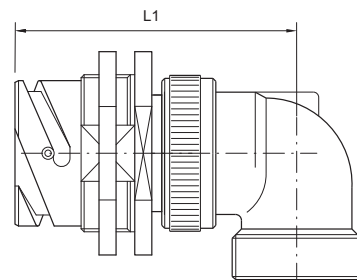
CVBS 08GG
CVBS 98GG



CVBS 070



CVBS 078



(1) la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

(1) Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI**Classe connettore LDA - LRA**

Dotata di prolunga lunga con filetto esterno adatta per serracavo tipo MS3057...tipo A o C (da ordinare separatamente - vedi p. 125-127).
È fornibile per uscita cavi diritta.

Classe LDA: fornita di guarnizione per la tenuta stagna della prolunga. (Classe LA senza guarnizione, a richiesta)

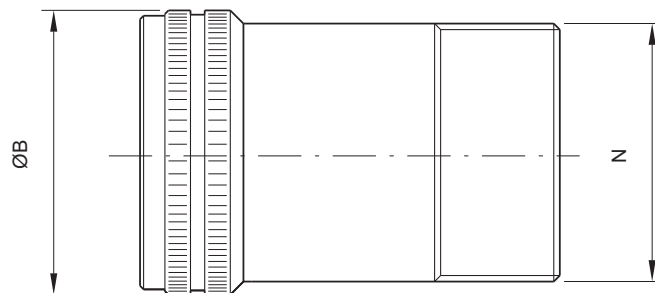
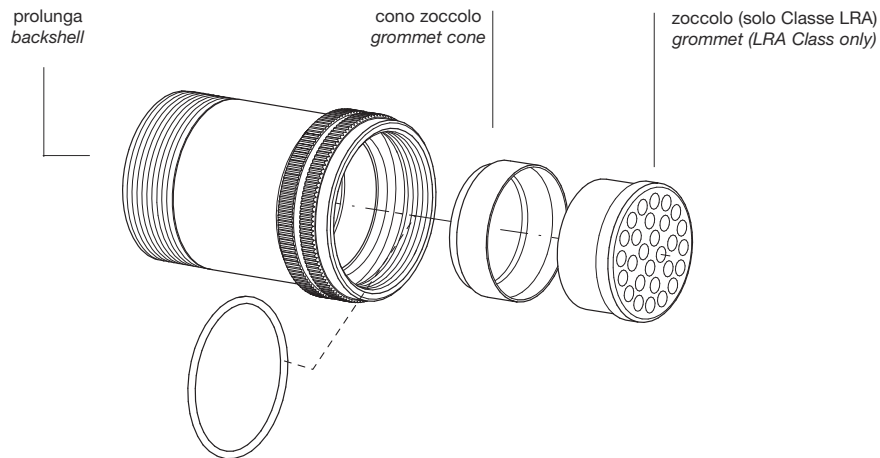
Classe LRA: come precedente, ma fornita di zoccolo posteriore.

CONNECTOR SHELLS**LDA - LRA Connector class**

Connector with long backshell having an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately - see p. 125-127).
Available with straight backshell.

LDA Class: with waterproof O-ring. (LA Class, without O-ring, on request)

LRA Class: as DAL class but with grommet.



Misura guscio <i>Shell size</i>	ØB ±0.2	N Filetto in pollici <i>Thread in inches</i>
10SL	20	5/8"-24 UNEF
14S	24	3/4"-20 UNEF
16S	27	7/8"-20 UNEF
16	27	7/8"-20 UNEF
18	30	1"-20 UNEF
20	32	1"3/16-18 UNEF
22	37	1"3/16-18 UNEF
24	40	1"7/16-18 UNEF
28	45	1"7/16-18 UNEF
32	52	1"3/4-18 UNS
36	58	2"-18 UNS
40	63.2	2"1/4-16 UN

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

CONNECTOR SHELLS

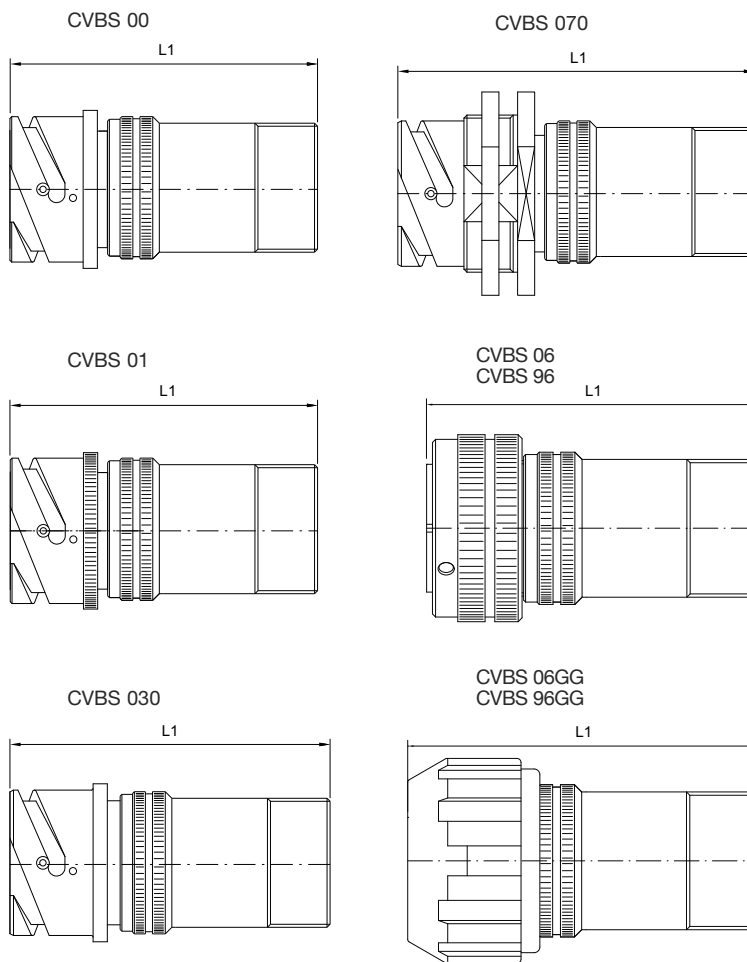
Lunghezza L1 massima del connettore

Maximum L1 length

Misura guscio Shell size	Tipo guscio / Shell version ⁽¹⁾					
	00	01	030	070	06-96	06GG 96GG
10SL	67	67	67	79	68	70.5
14S	67	67	72	82	68	70.5
16S	67	67	72	82.5	68	
16	77	77	82	92	78.5	
18	77.5	77.5	82	92.5	78.5	82.5
20	78	78	82.5	93	79	83
22	79	79	84	95.5	80.5	84.5
24	81	81	84	95.5	81	85
28	81	81	84.5	97	81	85
32	95.5	95.5	97.5	110	95.5	99.5
36	95.5	95.5	97.5	110	95.5	99.5
40	95.5	95.5	97.5	110	96.5	100.5

Dimensioni in mm

Dimensions in mm



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore F

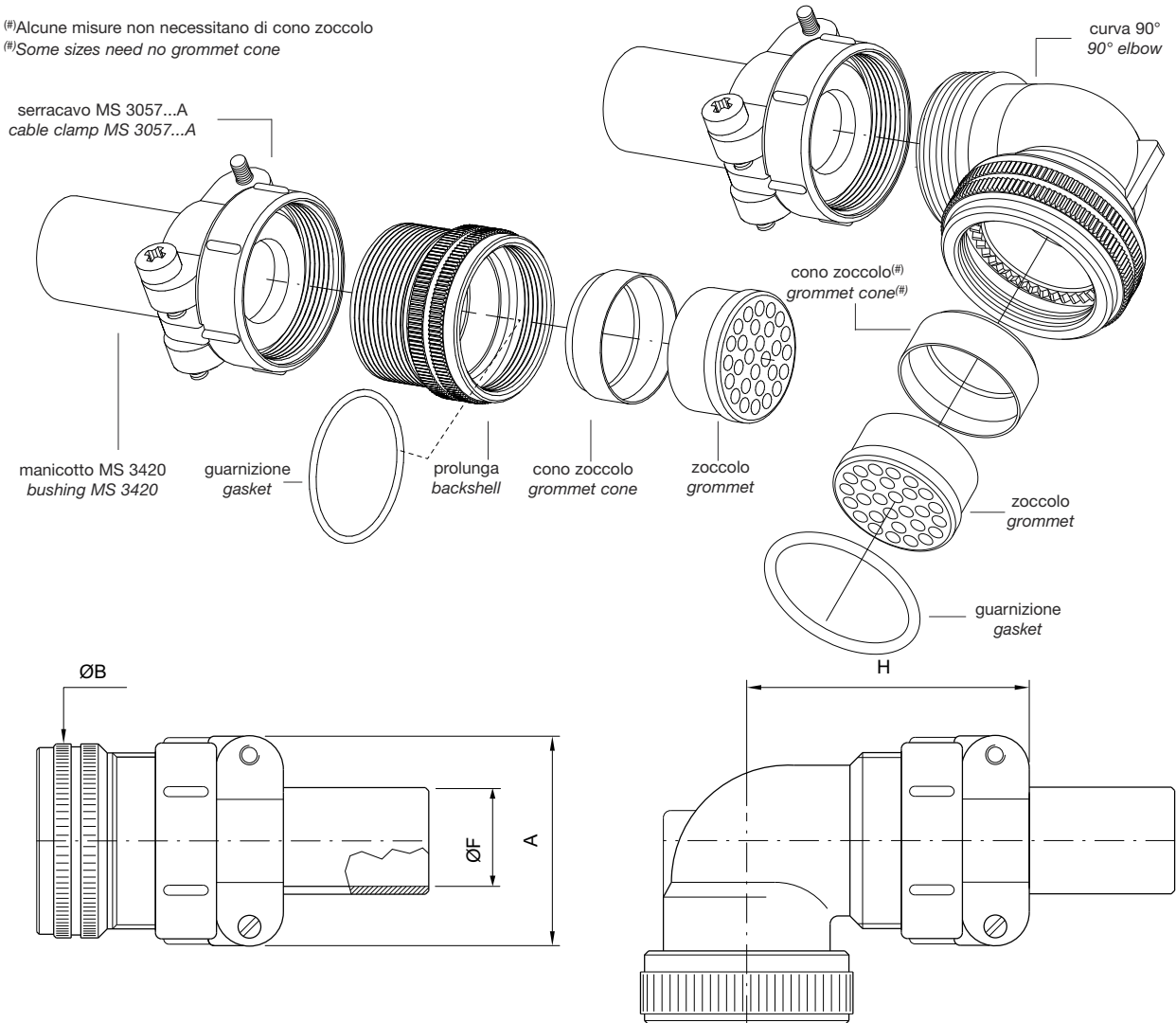
Dotata di prolunga, zoccolo posteriore, serracavo tipo MS3057...A e manicotto di protezione cavo MS3420...
È fornibile per uscita cavi diritta o a 90°.

CONNECTOR SHELLS

F Connector class

Connector provided with grommet, backshell, MS3057...A type cable-clamp and bushing MS3420...
Available with straight and 90° backshell.

^(#)Alcune misure non necessitano di cono zoccolo
^(#)Some sizes need no grommet cone



Misura guscio	ØB	H	A	ØF
Shell size	±0.2	Max	Max	(*)
10SL	20	-	22.7	5.6
14S	24	41	27.5	7.9
16S	27	44	30	11
16	27	44	30	11
18	30	47	32.2	14.2
20	32	48	37.5	15.8
22	37	50	37.5	15.8
24	40	56	43.5	19
28	45	58	43.5	19
32	52	63	51.7	23.8
36	58	66	58	31.7
40	63.8	84	68.5	34.9

(*) Dimensione massima del cavo
(*) Cable maximum dimension

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

CONNECTOR SHELLS

Lunghezza L1 massima del connettore

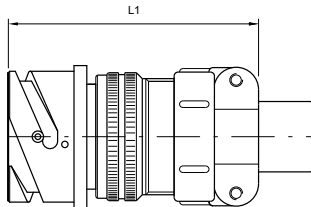
Maximum L1 length

Misura guscio Shell size	Tipo guscio / Shell version ⁽¹⁾									
	00	01	030	070	06 96	06GG 96GG	038	078	08 98	08GG 98GG
10SL	51	51	56	60	46	48.5				
14S	54.5	54.5	59.5	69.5	55	57.5	51	59	45.5	48
16S	56	56	61	71.5	56.5		53	60	47	
16	63.5	63.5	68	78.5	62.5		60.5	70	56.5	
18	66.5	66.5	71	81.5	67.5	71.5	61	71.5	57.5	61.5
20	66.5	66.5	71	83	68	72	63.5	75	60	63.5
22	69.5	69.5	73.5	85	70.5	74.5	65.5	77	62.5	65.5
24	69.5	69.5	73.5	85	70.5	74.5	68.5	81	65.5	69
28	77.5	77.5	80.5	93.5	77.5	81.5	69	83	65.5	69
32	78.5	78.5	80.5	93.5	77.5	81.5	72.5	85	70	74
36	78.5	78.5	81	93.5	77.5	81.5	76	89	73.5	77.5
40	92	92	94	107	93	97	80	92.5	78.5	82.5

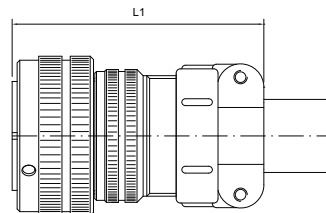
Dimensioni in mm

Dimensions in mm

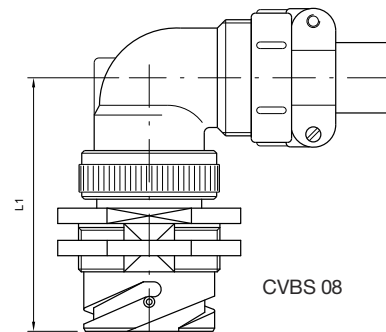
CVBS 00



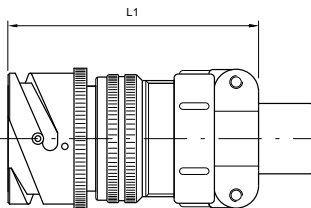
CVBS 06
CVBS 96



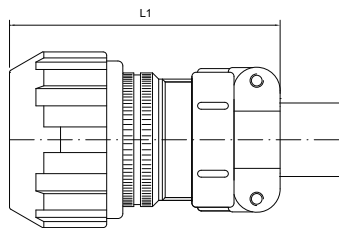
CVBS 078



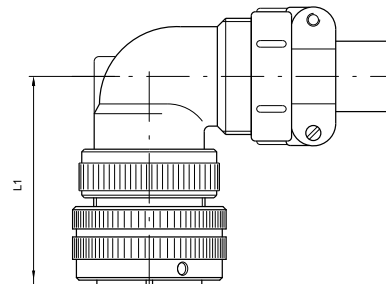
CVBS 01



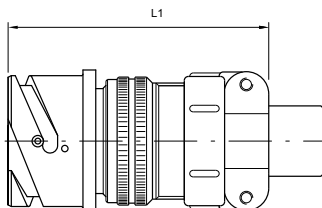
CVBS 06GG
CVBS 96GG



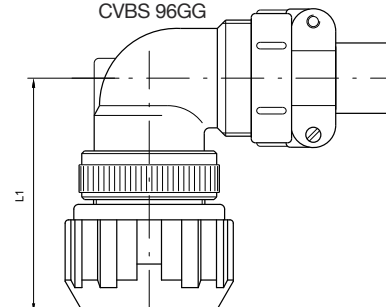
CVBS 08



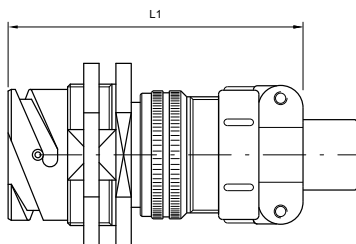
CVBS 030



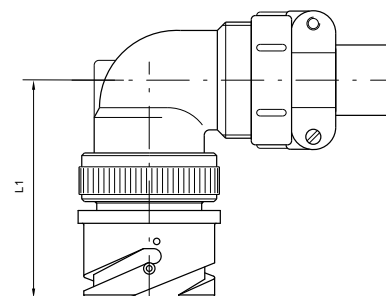
CVBS 08GG
CVBS 96GG



CVBS 070



CVBS 038



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI**Classe connettore AC - ACF**

Dotata di prolunga, guarnizione per la tenuta stagna della prolunga, e serracavo tipo MS3057...C.

È fornibile per uscita cavi dritta o a 90°.

Classe AC: non provvista di zoccolo posteriore.

Classe ACF: come precedente, ma fornita di zoccolo posteriore.

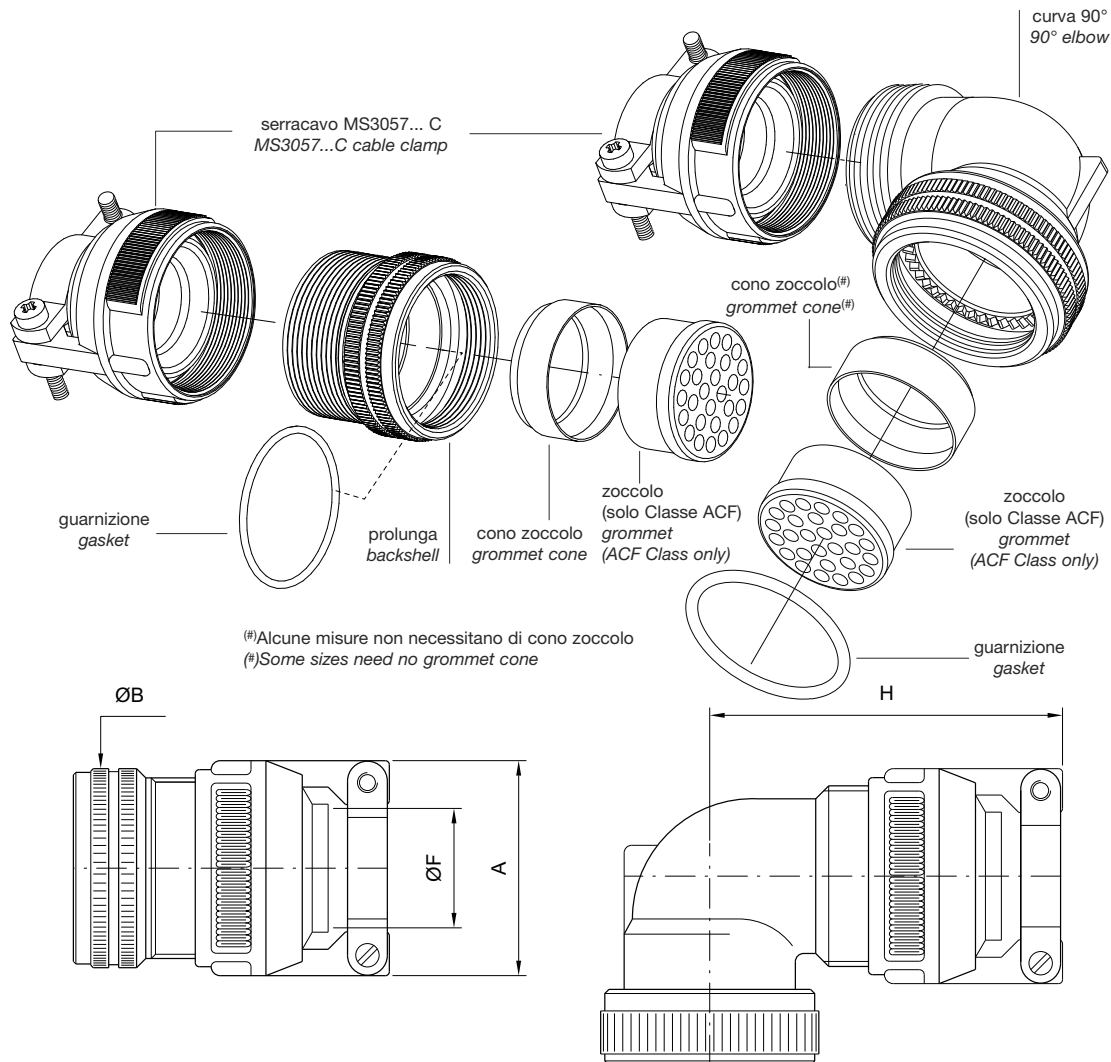
CONNECTOR SHELLS**AC - ACF Connector class**

Connector provided with backshell, sealing O-ring and MS3057...C type cable-clamp.

Available with straight or 90° backshell.

AC Class: without grommet.

ACF Class: as AC class but with grommet.



Misura guscio Shell size	ØB	H	A	ØF(*)	
	Max	Max	± 0.2	Min	Max
10SL	20	-	23	2.4	7.9
14S	24	55	26	5.8	11.2
16S	27	58	28.5	8	13.5
16	27	58	28.5	8	13.5
18	30	62	32	9.6	15.9
20	32	65	37.5	11.3	19
22	37	67	37.5	11.3	19
24	40	73	43.5	15.5	23.8
28	45	75	43.5	15.5	23.8
32	52	85	54	23.8	31.8
36	58	95	58	25.4	35
40	63.2	98	63.5	30	41.3

(*)Dimensione massima e minima del cavo
(*)Cable maximum and minimum dimension

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

CONNECTOR SHELLS

Lunghezza L1 massima del connettore

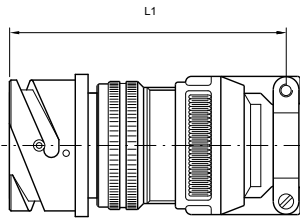
Maximum L1 length

Misura guscio Shell size	Tipo guscio / Shell version ⁽¹⁾									
	00	01	030	070	06 96	06GG 96GG	038	078	08 98	08GG 98GG
10SL	65	65	70	74	60	62.5				
14S	66.5	66.5	71.5	81.5	67	69.5	50	60	45.5	48
16S	67.5	67.5	72.5	83	68		51.5	61.5	47	
16	75	75	79.5	90	74		60	70.5	56.5	
18	78.5	78.5	83	93.5	79.5	83.5	61	71.5	57.5	61.5
20	77.5	77.5	83	94	79.5	83.5	63.5	75	60	63.5
22	80.5	80.5	84.5	96	81.5	85.5	65.5	77	62.5	65.5
24	87.5	87.5	91.5	102	88.5	92.5	68.5	81	65.5	69
28	95.5	95.5	98.5	111.5	95.5	99.5	69	83	65.5	69
32	101	101	103	116	100	104	72.5	85	70	74
36	105.5	105.5	107.5	120.5	104.5	108.5	76	89	73.5	77.5
40	107	107	109	122	108	112	80	92.5	78.5	82.5

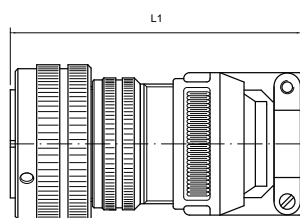
Dimensioni in mm

Dimensions in mm

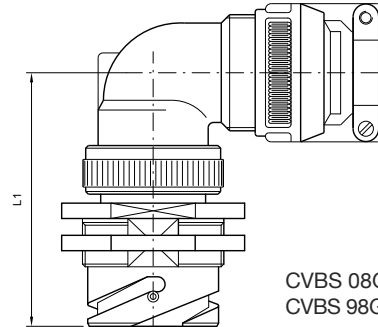
CVBS 00



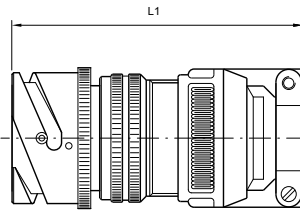
CVBS 06-96



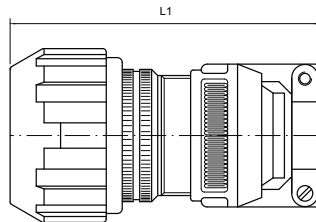
CVBS 078



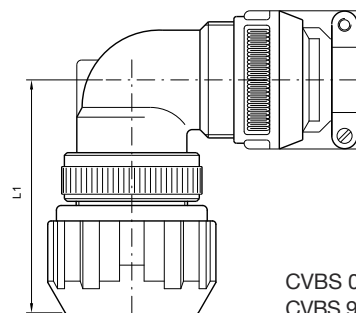
CVBS 01



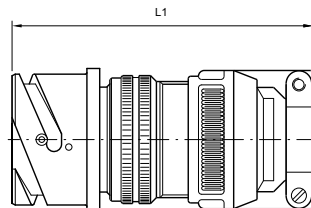
CVBS 06GG
CVBS 96GG



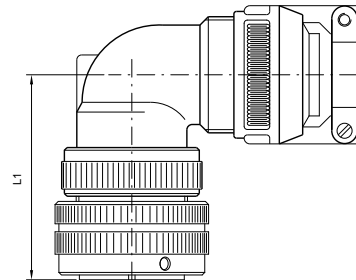
CVBS 08GG
CVBS 98GG



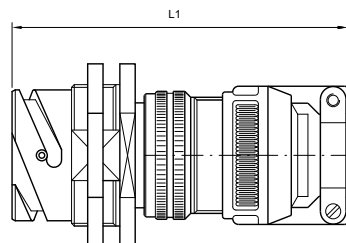
CVBS 030



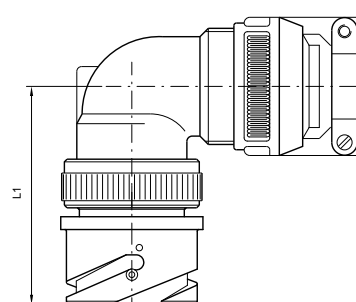
CVBS 08
CVBS 98



CVBS 070



CVBS 038



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI**Classe connettore LAC - LACF**

Dotata di prolunga lunga, guarnizione per la tenuta stagna della prolunga, e serracavo tipo MS3057...C.

È fornibile per uscita cavi dritta.

Classe LAC: non provvista di zoccolo posteriore.

Classe LACF: come precedente, ma fornita di zoccolo posteriore.

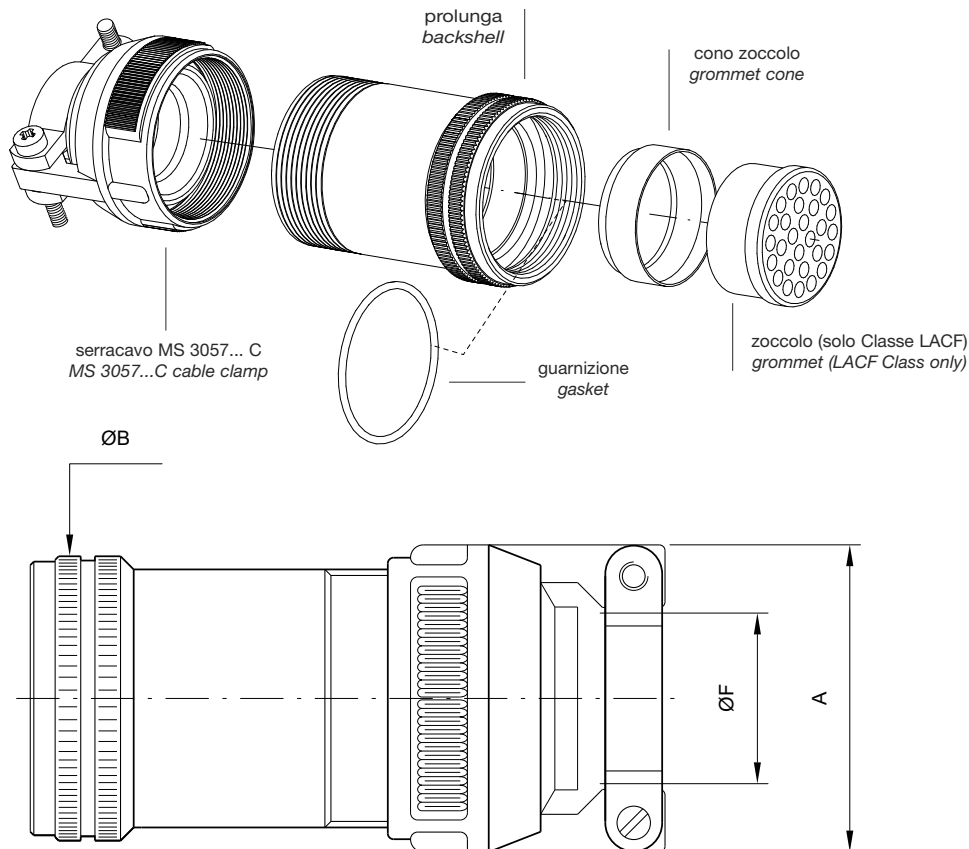
CONNECTOR SHELLS**LAC - LACF Connector class**

Connector provided with long backshell, sealing O-ring and MS3057...C type cable-clamp.

Available with straight backshell.

LAC Class: without grommet.

LACF Class: as LAC class but with grommet.



Misura guscio	ØB	A	ØF(*)	
Shell size	Max	Max	Min	Max
10SL	20	23	2.4	7.9
14S	24	26	5.8	11.2
16S	27	28.5	8	13.5
16	27	28.5	8	13.5
18	30	32	9.6	15.9
20	32	37.5	11.3	19
22	37	37.5	11.3	19
24	40	43.5	15.5	23.8
28	45	43.5	15.5	23.8
32	52	54	23.4	31.8
36	58	58	25.4	35
40	63.2	63.5	30	41.3

Dimensioni in mm

Dimensions in mm

(*) Dimensione massima e minima del cavo

(*) Cable maximum and minimum dimension

GUSCI CONNETTORI

CONNECTOR SHELLS

Lunghezza L1 massima del connettore

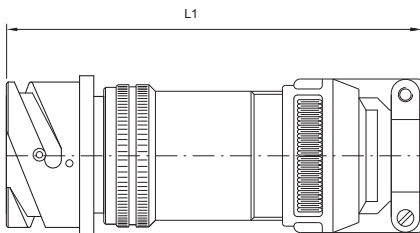
Maximum L1 length

Misura guscio Shell size	Tipo guscio / Shell version ⁽¹⁾					
	00	01	030	070	06-96	06GG 96GG
10SL	91	91	91	103	92	94.5
14S	91	91	72	106	92	94.5
16S	92	92	72	107.5	93	
16	102	102	82	117	103.5	
18	105	105	82	120	106	110
20	105	105	82.5	120	106	110
22	106	106	84	121	107	111
24	114.5	114.5	84	129	114.5	118.5
28	114.5	114.5	84.5	130.5	114.5	118.5
32	133.5	133.5	97.5	148	133.5	137.5
36	138	138	97.5	152.5	138	142.5
40	139.5	139.5	97.5	154	140.5	144.5

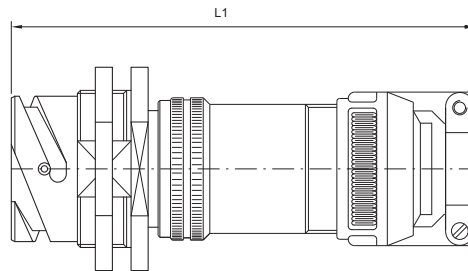
Dimensioni in mm

Dimensions in mm

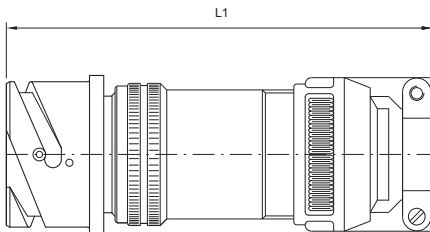
CVBS 00



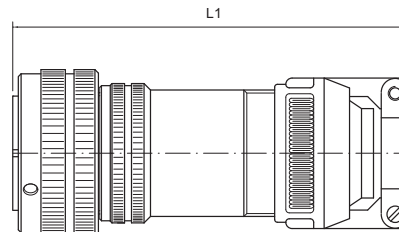
CVBS 070



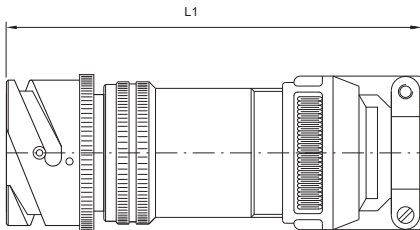
CVBS 030



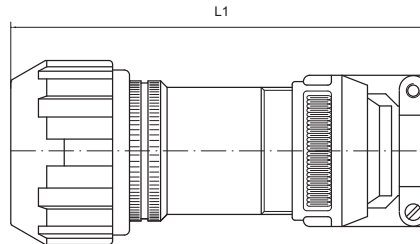
CVBS 06
CVBS 96



CVBS 01



CVBS 06GG
CVBS 96GG



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore DA...PG - DA...M

La prolunga è dotata di filetto posteriore interno di tipo PG o Metrico utilizzabile per pressacavi o raccordi di collegamento con guaine o tubi flessibili di protezione di ogni tipo. Fa inoltre parte di questa classe, una guarnizione per la tenuta stagna della prolunga.

È fornibile per uscita cavi diritta o a 90°.

Classe DA...PG: provvista di prolunga con filetto PG.

Classe DA...M: provvista di prolunga con filetto Metrico.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

DA...PG - DA...M Connector class

The backshell is provided with an internal PG or Metric thread suitable for glands or conduit adapters.

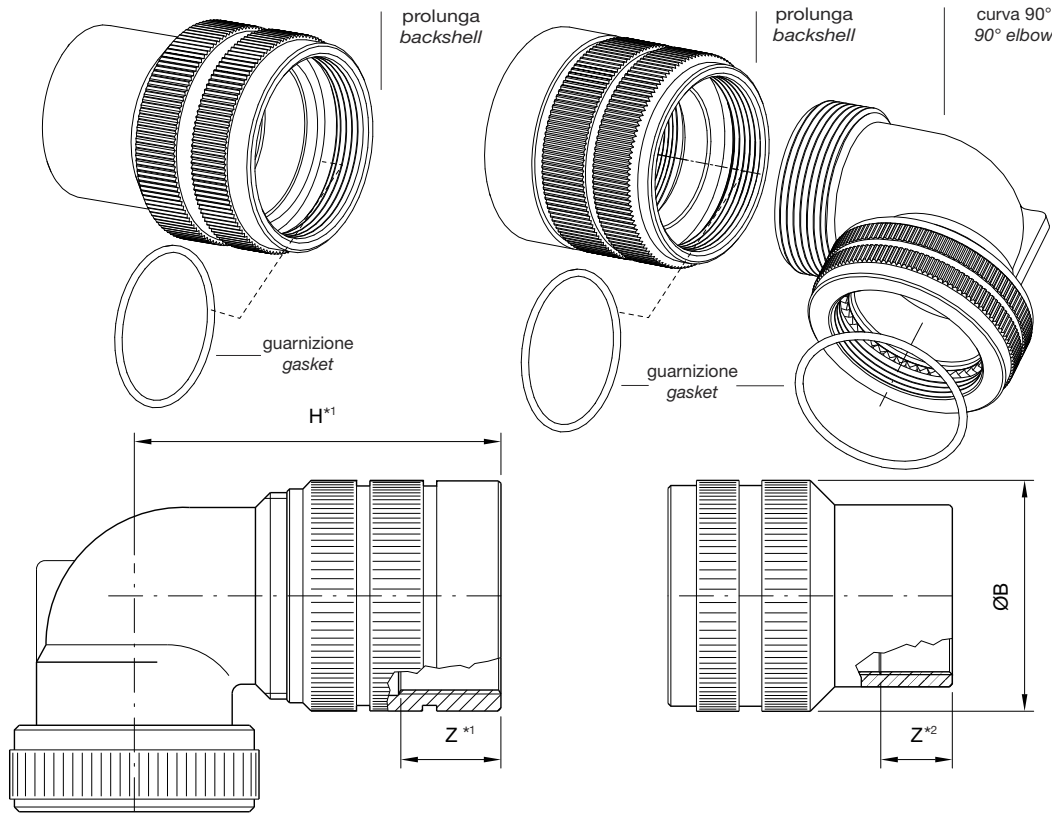
The sealing O-ring is included.

Available with straight or 90° backshell.

DA...PG Class: with PG threaded backshell.

DA...M Class: with Metric threaded backshell.

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



Misura guscio Shell size	ØB Max	Z Min	Filetto PG / PG Thread				Filetto Metrico / Metric thread					
			Uscita cavi diritta Straight backshell	Uscita cavi 90° - senza raccordo 90° elbow w/out adaptor		Uscita cavi 90° con raccordo 90° elbow with adaptor		Uscita cavi diritta Straight backshell	Uscita cavi 90° - senza raccordo 90° elbow w/out adaptor		Uscita cavi 90° con raccordo 90° elbow with adaptor	
				PG	H Max	PG	H Max		Metr.	H Max	Metr.	H Max
10SL	20	6	7-9					12-16				
12S	20	9	7-9					12-20				
14S	24	7.5	7-9-11-13.5-16	9	26	7-11	56	12-16-20	16	26	12	56
16S	27	10	11-13.5-16	13.5	29	11-16	58	16-20	20	29	16	58
16	27	6.5	11-13.5-16	13.5	29	11-16	58	16-20	20	29	16	58
18	30	7.5	13.5-16-21	16	31	13.5	60	20-25	20	31	25	60
20	32	9	11-13.5-16-21-29			11-13.5-16	62	12-16-20-25-32	25	33	16-20	62
22	37	7.5	13.5-16-21-29	21	35	16-29	65	16-20-25-32-40			25-32-40	65
24	40	11	16-21-29	21	38	16-29	69	20-25-32-40	32	38	25-40	69
28	45	10.7	13.5-21-29-36	21	40	29-36	72	20-25-32-40	32	40	40	72
32	52	10.7	21-29-36			21-29-36	78	25-32-40	40	46	40	78
36	58	13	21-29-36-42	36	49	21-29	81	32-40			32-40	81
40	63.8	12.3	29-36-42-48	36	53	29-42	85	32-40-50-63			32-40-50	85

Dimensioni in mm

Dimensions in mm

*1 = alcune versioni sono fornite con filettatura interna senza adattatore
*2 = alcune versioni sono fornite con adattatore

*1 = some version can be supplied with internal threading without adaptor
*2 = some version can be supplied with adaptor

GUSCI CONNETTORI

CONNECTOR SHELLS

Lunghezza L1 massima del connettore

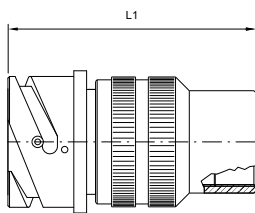
Maximum L1 length

Misura guscio Shell size	Tipo guscio / Shell version									
	00	01	030	070	06-96	06GG 96GG	038	078	08-98	08GG 98GG
10SL	67	67	72	79	68	70.5				
14S	67	67	72	82	68	70.5	50	60	45.5	48
16S	67	67	72	82.5	68		51.5	61.5	47	
16	74	74	79	89	76		60	70.5	56.5	
18	74	74	79	89.5	76	80	61	71.5	57.5	61.5
20	74	74	79	90.5	76	80	63.5	75	60	63.5
22	74	74	79	90.5	76	80	65.5	77	62.5	65.5
24	76	76	79	90.5	76	80	68.5	81	65.5	69
28	86	86	89	102	86	90	69	83	65.5	69
32	88	88	90	102	87	91	72.5	85	70	74
36	93	93	95	107	92	96	76	89	73.5	77.5
40	93	93	92	107	94	98	80	92.5	78.5	82.5

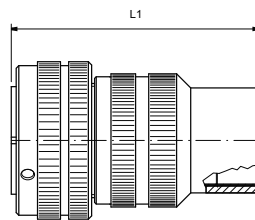
Dimensioni in mm

Dimensions in mm

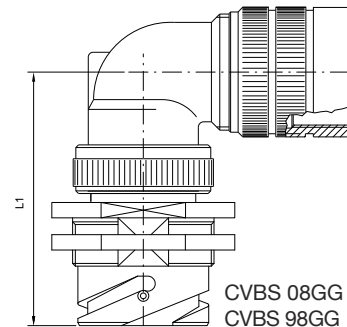
CVBS 00



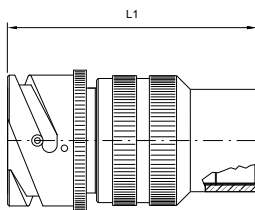
CVBS 06
CVBS 96



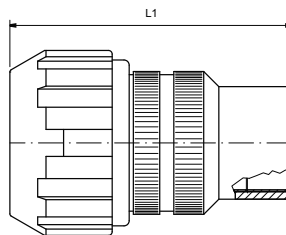
CVBS 078



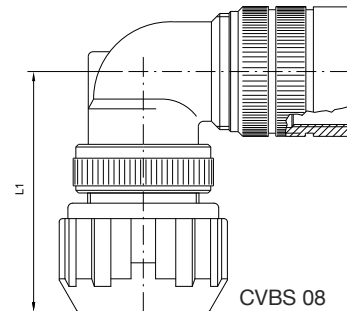
CVBS 01



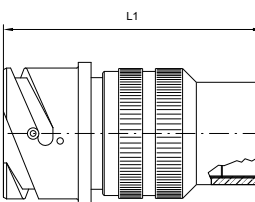
CVBS 06GG
CVBS 96GG



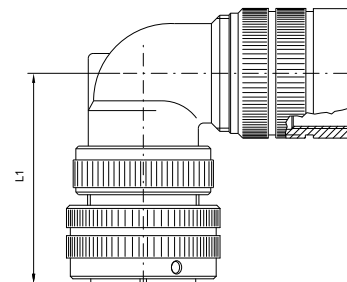
CVBS 08GG
CVBS 98GG



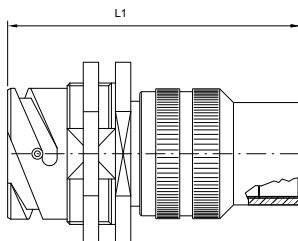
CVBS 030



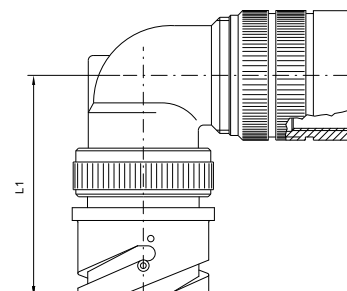
CVBS 08
CVBS 98



CVBS 070



CVBS 038



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

Classe connettore DA...FS - RA...FS

Connettore volante dotato di prolunga e raccordo per il collegamento a tubo in gomma telata UNI4883 di protezione cavi.

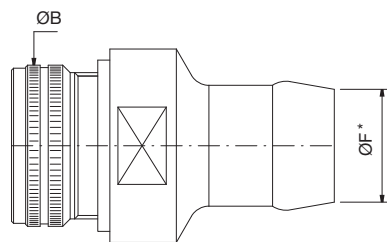
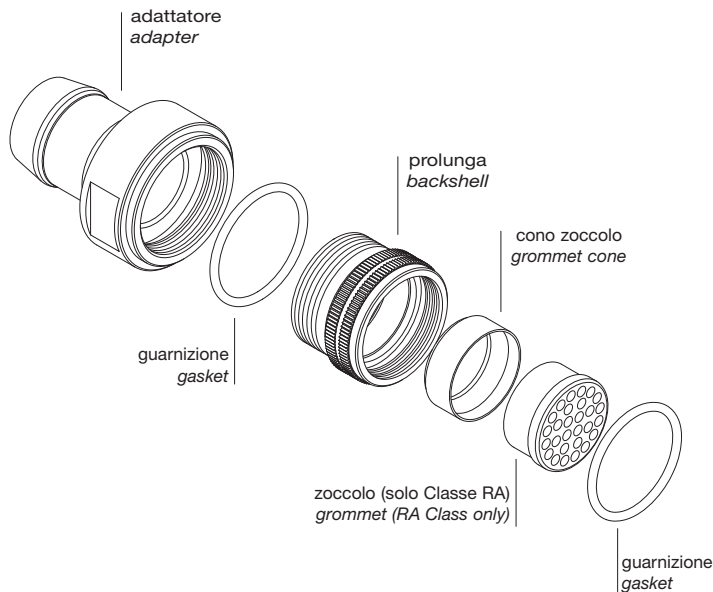
Specificare le dimensioni del tubo utilizzato, indicandone nella sigla il diametro esterno ed interno in mm. (es.: CVBS 06DA...FS5040...).

È fornibile per uscita cavi diritta o a 90°.

Classe DA...FS: fornita di guarnizione per la tenuta stagna della prolunga.

Classe RA...FS: come precedente, ma fornita di zoccolo posteriore.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

**DA...FS - RA...FS Connector class**

Connector with backshell and special adapter for UNI4883 rubber conduits.

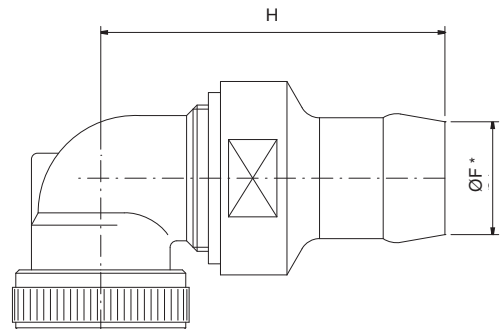
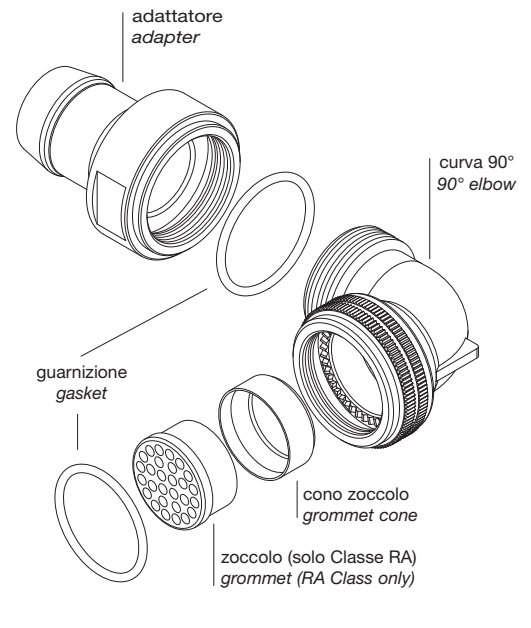
Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: CVBS 06DA...FS5040...).

Available with straight or 90° backshell.

DA...FS Class: with sealing O-ring.

RA...FS Class: as DA class but with grommet.

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



Misura guscio	ØB	H
Shell size	Max	Max
18	30	80
20	32	82
22	37	82
24	40	87
28	45	88
32	52	96
36	58	98
40	63.8	102

Dimensioni in mm

Dimensions in mm

(*) Consultate il ns. Ufficio Vendite per maggiori dettagli su questa dimensione in funzione del tubo utilizzato.

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

GUSCI CONNETTORI

CONNECTOR SHELLS

Lunghezza L1 massima del connettore

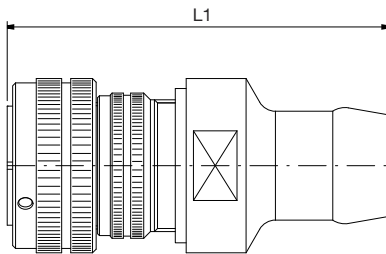
Maximum L1 length

Misura guscio Shell size	Tipo guscio / Shell version			
	06-96	06GG-96GG	08-98	08GG-98GG
18	103	107	57.5	61.5
20	103	107	60	63.5
22	103	107	62.5	65.5
24	105	109	65.5	69
28	111	115	65.5	69
32	117	121	70	74
36	122	126	73.5	77.5
40	122	126	78.5	82.5

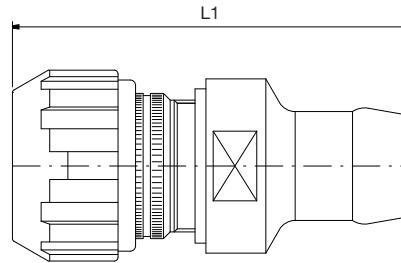
Dimensioni in mm

Dimensions in mm

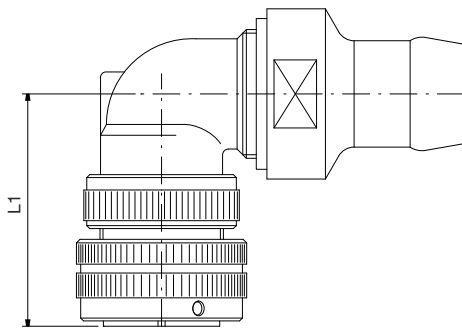
CVBS 06
CVBS 96



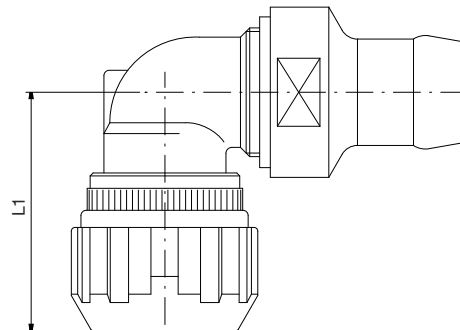
CVBS 06GG
CVBS 96GG



CVBS 08
CVBS 98



CVBS 08GG
CVBS 98GG



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore DA...MTG - RA...MTG

Connettore volante dotato di prolunga e raccordo per il serraggio e ritenzione di tubo in gomma telata UNI4883 di protezione cavi.

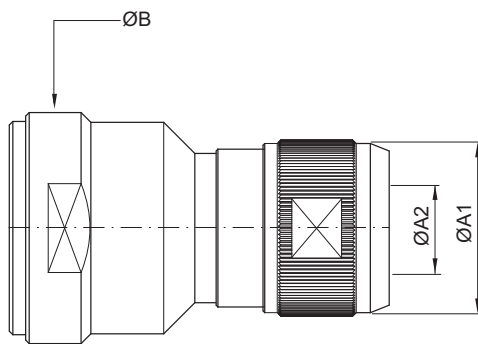
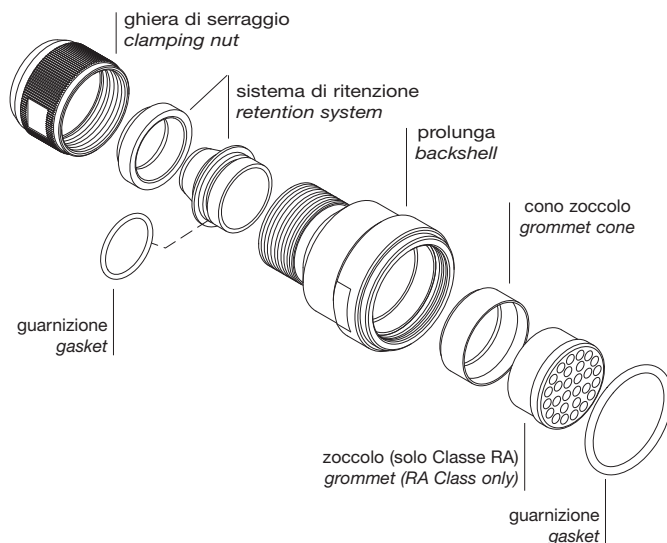
Specificare la dimensione del tubo utilizzato, indicandone nella sigla il diametro esterno ed interno in mm (es.: CVBS 06DA...MTG5040...).

È fornibile per uscita cavi diritta o a 90°.

Classe DA...MTG: fornita di guarnizione per la tenuta stagna della prolunga.

Classe RA...MTG: come precedente, ma fornita di zoccolo posteriore.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.



CONNECTOR SHELLS

DA...MTG - RA...MTG Connector Class

Connector with backshell and special adapter for clamping and retaining UNI4883 rubber conduits.

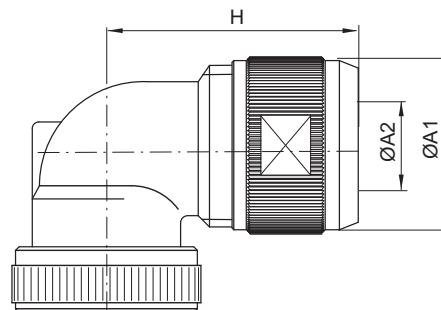
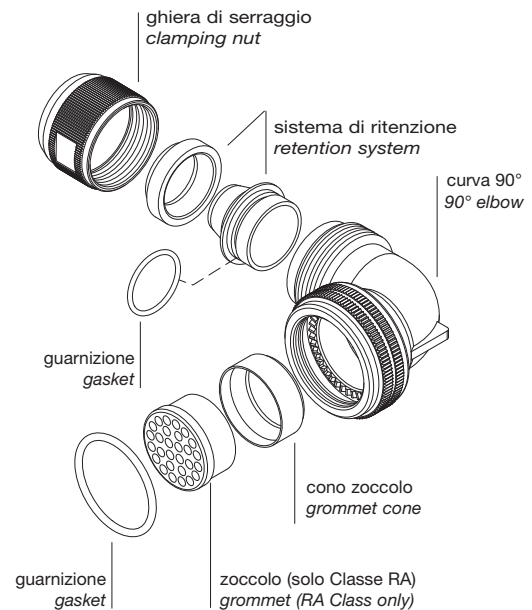
Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: CVBS 06DA...MTG5040...).

Available with straight or 90° backshell.

DA...MTG Class: with waterproof sealing O-ring.

RA...MTG Class: as DA class but with grommet.

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



Misura guscio	ØB	H
Shell size	Max	Max
18	30	62
20	32	65
22	37	66
24	40	68
28	45	70
32	52	78
36	58	85
40	63.8	85

Dimensioni in mm

Dimensions in mm

Le dimensioni A1 e A2 sono determinate dalle dimensioni del tubo utilizzato. Consultate il ns. Ufficio Vendite per maggiori dettagli.

Dimensions A1 and A2 are determined by conduit size. Please consult our Sales Office for further details.

GUSCI CONNETTORI

CONNECTOR SHELLS

Lunghezza L1 massima del connettore

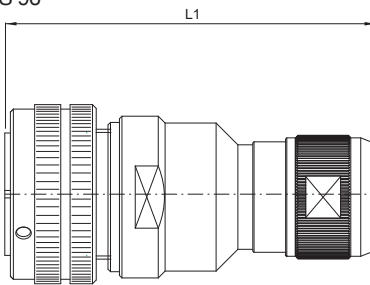
Maximum L1 length

Misura guscio Shell size	Tipo guscio / Shell version			
	06-96	06GG-96GG	08-98	08GG-98GG
18	101	101	57.5	61.5
20	101	101	60	64
22	101	101	62.5	66.5
24	107	107	65.5	69
28	110	110	65.5	69
32	114	114	70	74
36	120	120	73.5	77.5
40	121	121	78.5	82.5

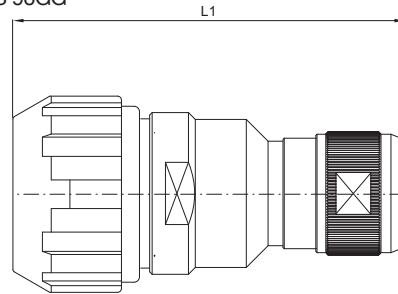
Dimensioni in mm

Dimensions in mm

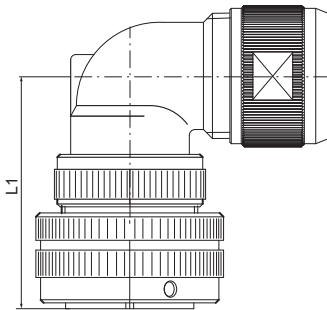
CVBS 06
CVBS 96



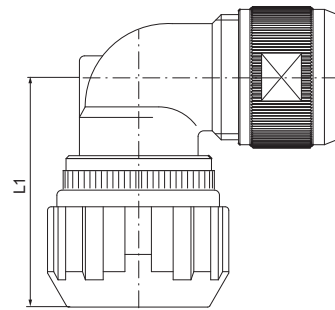
CVBS 06GG
CVBS 96GG



CVBS 08
CVBS 98



CVBS 08GG
CVBS 98GG



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore R

Questa classe è adatta per il collegamento di cavi singoli che non necessitano di ritenzione. È indicata nei casi in cui l'ingombro longitudinale deve essere particolarmente ridotto. Poiché la tenuta stagna è affidata al solo zoccolo posteriore, è importante accertarsi che i fori di questo siano adatti alle dimensioni dei singoli cavi.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

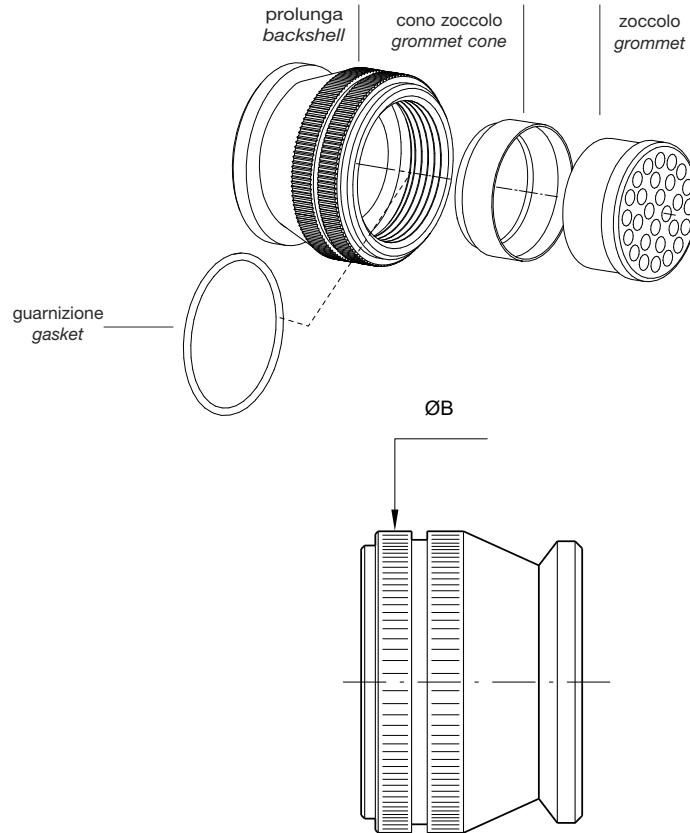
CONNECTOR SHELLS

R Connector class

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.

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



Misura guscio	ØB
Shell size	±0.2
10SL	20
14S	24
16S	27
16	27
18	29.4
20	32
22	37
24	40
28	45
32	52
36	58
40	63.2

Dimensioni in mm

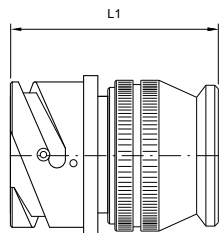
Dimensions in mm

Misura guscio Shell size	Tipo guscio / Shell version					
	00	01	030	070	06-96	06GG 96GG
10SL	41	41	46	50	36	38.5
14S	42	42	47	57	42	44.5
16S	42	42	47	57.5	42	
16	49	49	54	64.5	48	
18	50	50	55	65	51	55
20	50	50	55	67	51	55
22	53	53	57	68	54	58.5
24	53	53	57	68	54	58.5
28	61	61	64	77	61	65
32	62	62	64	77	61	65
36	62	62	64	77	61	65
40	62	62	64	77	63	68

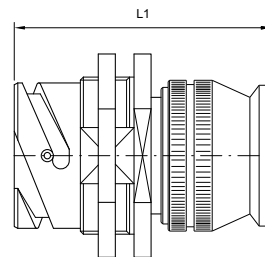
Dimensioni in mm

Dimensions in mm

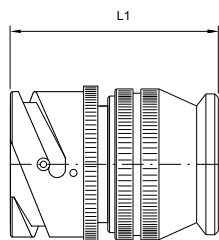
CVBS 00



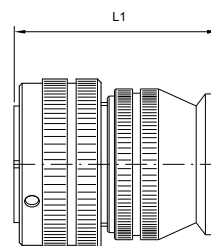
CVBS 070



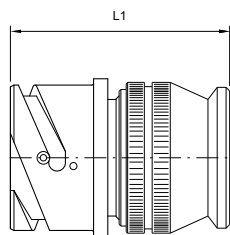
CVBS 01



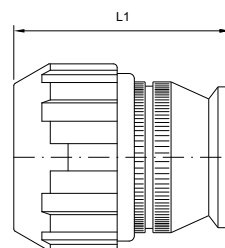
CVBS 06
CVBS 96



CVBS 030



CVBS 06GG
CVBS 96GG



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore AG - G - G2

Tutte queste classi sono adatte per l'utilizzo di guaine termorestringenti.

Classe AG: corpo prolunga in un solo pezzo. È fornibile per uscita cavi diritta. Non è provvista di zoccolo posteriore.

Classe G: come precedente, ma provvista di zoccolo posteriore.

Classe G2: corpo prolunga provvisto di ghiera di collegamento e di dentatura interna. Elimina i problemi di rotazione della prolunga e facilita l'assemblaggio dopo che i contatti sono stati inseriti. È provvista di zoccolo.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

AG - G - G2 Connector class

These classes of connectors are all suitable for heat shrink tubing applications.

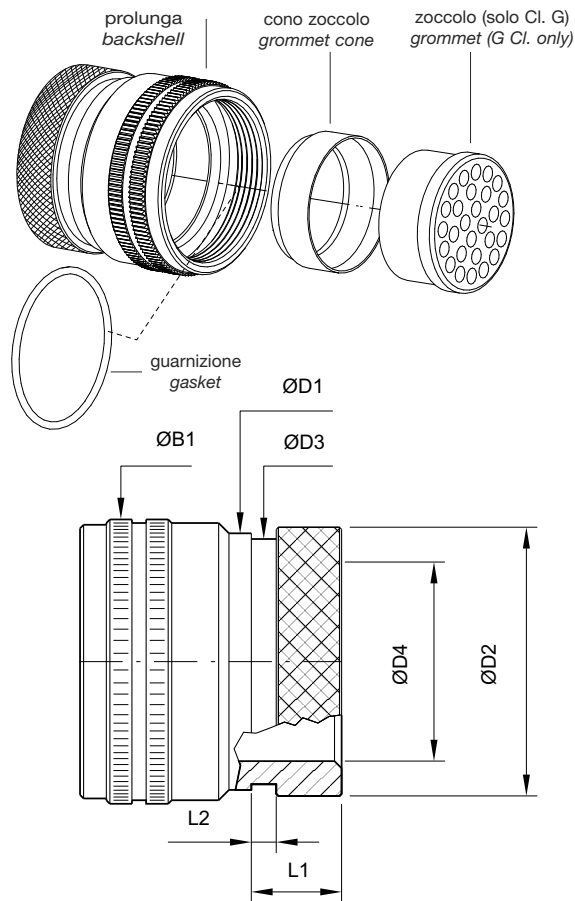
AG Class: one piece straight backshell without grommet.

G Class: as AG Class but with grommet.

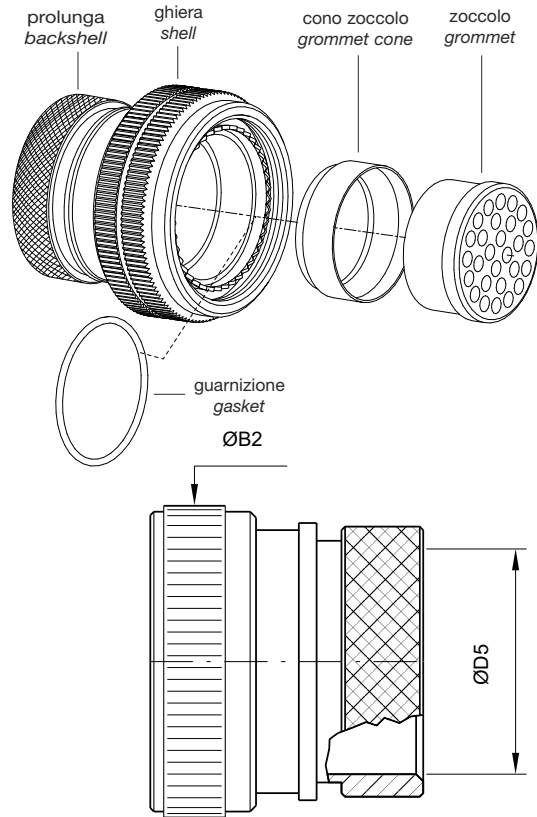
G2 Class: two piece backshell includes nut for shell tightening. Internal serration prevents backshell rotation and allows easy assembling after contacts are inserted. It is supplied with grommet.

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

AG - G



G2



Misura guscio Shell size	ØB1	ØB2	ØD1	ØD2	ØD3	ØD4	ØD5	L1	L2
10SL	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2
14S	20	22.5	17	15.5	13.3	7.9	8.6	11.7	3.5
16S	24	26	20.1	19.1	17	13.5	10.8	11.7	3.5
16	27	29	23.5	23.9	21.9	13.7	14	11.7	3.5
18	27	29	23.5	23.9	21.9	16.1	14	11.5	3.5
20	30	33.4	26.5	23.9	21.9	19	14.8	11.5	3.5
20	33	37	30.2	29.6	26.2	22.2	19.3	12.4	3.5
22	37	41	33.6	29.6	26.2	22	22.5	12.7	3.5
24	40	45.9	36.1	37.8	34.5	28	28	12.7	3.5
28	45	51	41.4	37.8	34.5	29	28	12.7	3.5
32	52	58	50	47.8	43.4	35.2	34.8	15.2	3.5
36	57.2	60.5	56	47.7	43.3	40	38.7	15.2	3.5
40	63.6	69	62.4	57.6	52.4	48	48.2	15.2	3.5

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

CONNECTOR SHELLS

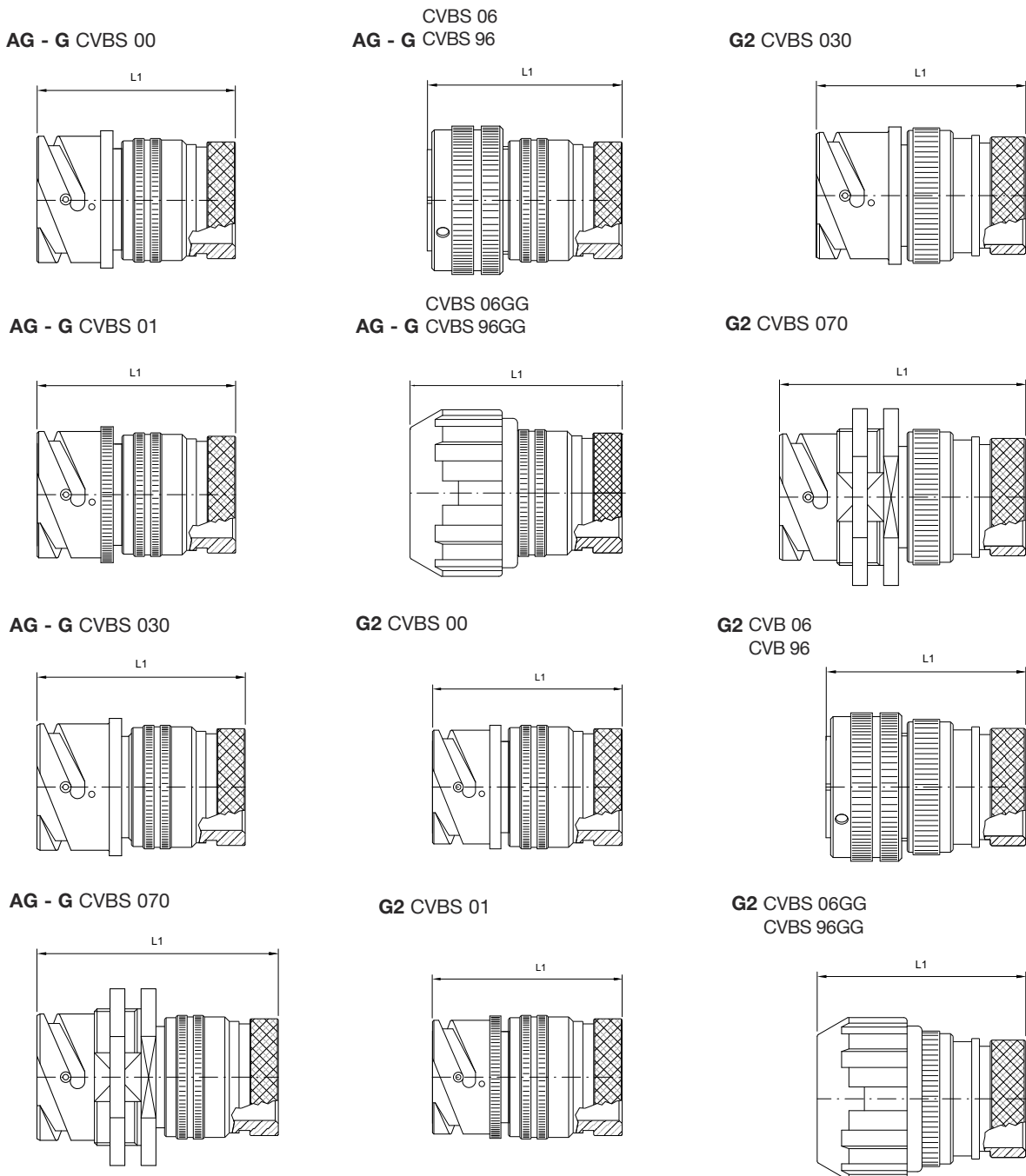
Lunghezza L1 massima del connettore

Maximum L1 length

Misura guscio Shell size	AG - G						06GG 96GG	G2	Tipo guscio / Shell version					
	00	01	030	070	06-96	06GG 96GG			00	01	030	070	06-96	06GG 96GG
10SL	48	48	53	60	49	51.5		51	51	55.5	61.5	51	53.5	
14S	48	48	53	63	49	51.5		51	51	55.5	64	52	53.5	
16S	48	48	53	63.5	49			51	51	56	65	53.5		
16	60	60	64	74.5	60			62	62	65.5	75	62		
18	65	65	68	78	64	68		63	63	65.5	75.5	61.5	65.5	
20	65	65	68	78	64	68		63	63	65.5	77	62.5	66.5	
22	65	65	68	78	64	68		63	63	65.5	77	62.5	66.5	
24	65	65	68	78	64	68		64	64	66	78	63	67	
28	65	65	68	80	64	68		66	66	68.5	81	65	69	
32	70	70	73	85	70	74		67	67	69.5	82	67	71	
36	75	75	78	90	75	79		67	67	69.5	82	67	71	
40	77	77	80	92	78	82		68	68	70	82.5	68.5	72.5	

Dimensioni in mm

Dimensions in mm



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore ASB1 - SB1

Classe prevista per cavi multipolari sottogomma schermati. È dotata di serracavo tipo MS3057...C. Sono fornibili versioni per cavi sopra/sotto dimensionati.

Nel caso di applicazione con connettori volanti, usare gusci dotati di molla di schermo (96 - 96GG).

Classe ASB1: fornita senza zoccolo posteriore.

Classe SB1: fornita con zoccolo posteriore.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

ASB1 - SB1 Connector class

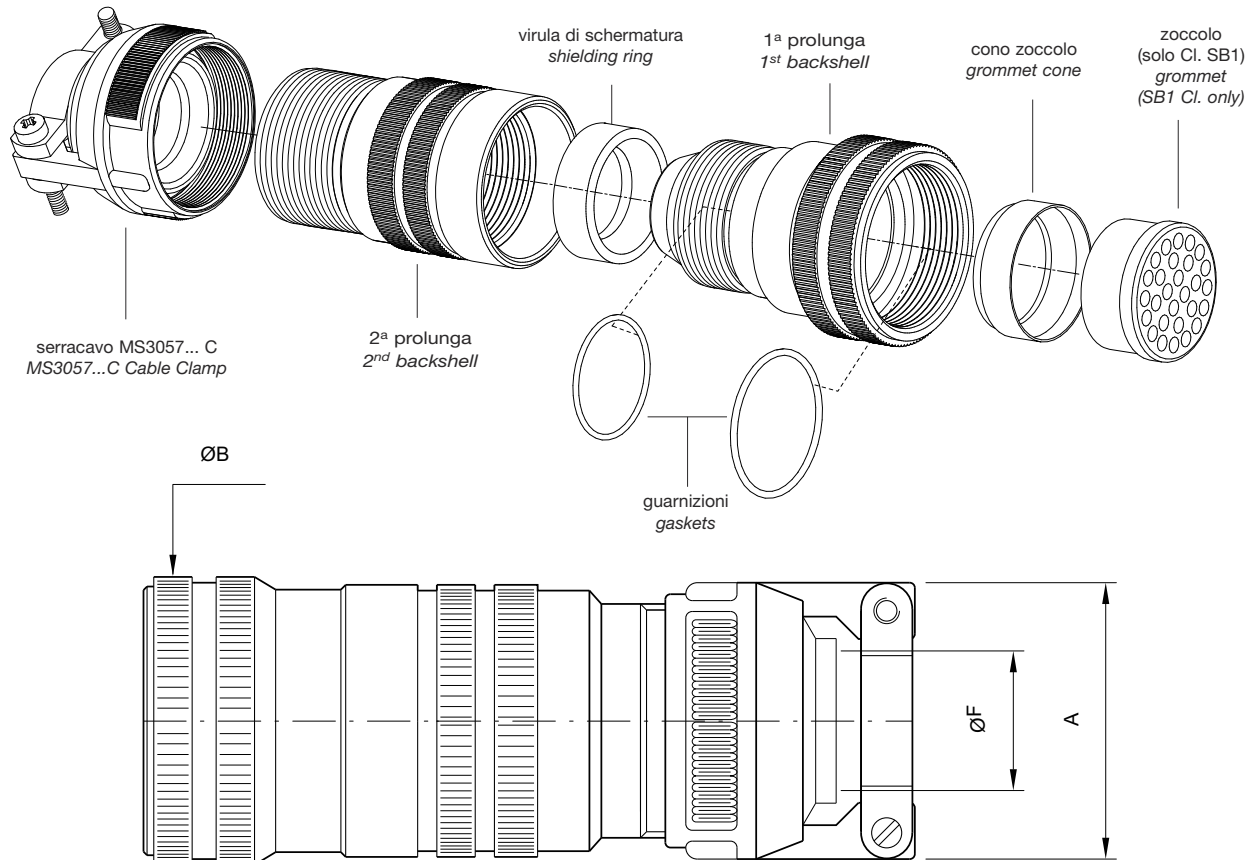
Connectors for multicore jacketed shielded cables. Provided with MS3057...C type cable-clamp. Also available versions for over/under dimensioned cables.

For plug connector application, we recommend to use shells provided with grounding fingers (96 - 96GG).

ASB1 Class: without grommet.

SB1 Class: with grommet.

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



Misura guscio Shell size	ØB ±0.2	A Max	ØF(*)	
			Min	Max
10SL	20	23	2.4	7.9
14S	24	26	5.8	11.1
16S	27	28.5	8	13.5
16	27	28.5	8	13.5
18	32	32	9.6	15.9
20	35	37.5	11.3	19
22	37	37.5	11.3	19
24	42	43.5	15.5	23.8
28	45	43.5	15.5	23.8
32	50	54	23.4	31.8
36	58	58	25.4	35
40	63.8	63.5	30	41.3

(*) Dimensione massima e minima del cavo
(*) Cable maximum and minimum dimension

Dimensioni in mm

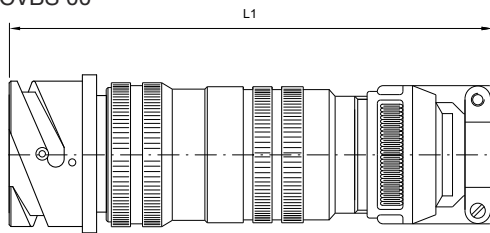
Dimensions in mm

Misura guscio Shell size	Tipo guscio / Shell version					
	00	01	030	070	06-96	96GG
10SL	99	99	104	111	100	102.5
14S	99	99	104	114	100	102.5
16S	100	100	105	116	101	105
16	118	118	123	134	120	124
18	124	124	129	139	125	129
20	124	124	129	140	125	129
22	124	124	129	140	126	130
24	135	135	137	149	135	139
28	138	138	141	154	138	142
32	146	146	148	160	145	149
36	150	150	152	165	150	154
40	154	154	156	168	155	159

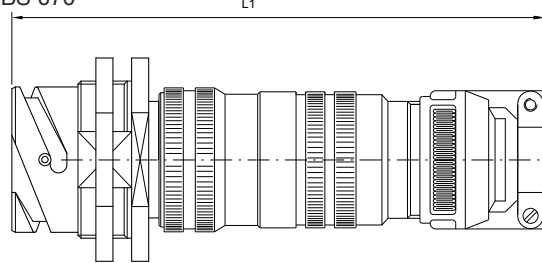
Dimensioni in mm

Dimensions in mm

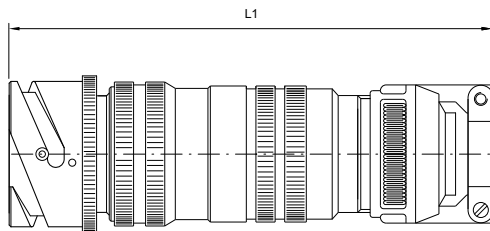
CVBS 00



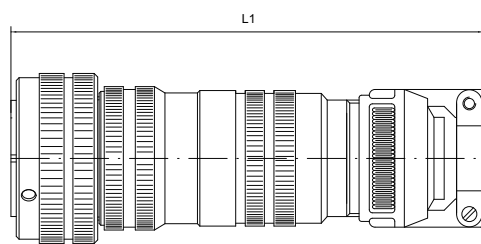
CVBS 070



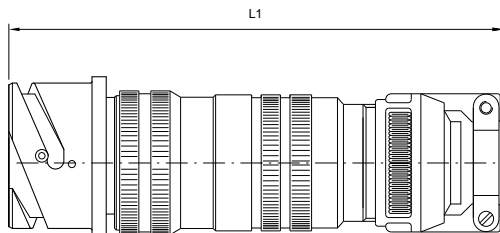
CVBS 01



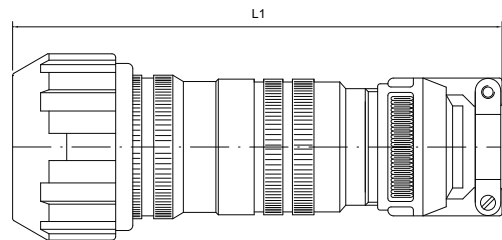
CVBS 06



CVBS 030



CVBS 06GG



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore GV - SB

Classi di connettori provviste di dispositivo per il collegamento di calza di schermatura e attacco per guaina termorestringente. Sono adatti anche per calze di schermo sottili, perché dotate di anello conico di protezione.

Nel caso di applicazione con connettori volanti, usare gusci dotati di molla di schermo (96 - 96GG).

Classe GV: corpo prolunga in un solo pezzo.

Non è provvista di zoccolo posteriore.

Classe SB: corpo prolunga provvisto di ghiera di collegamento e di dentatura interna. Elimina i problemi di rotazione della prolunga e facilita l'assemblaggio dopo che i contatti sono stati inseriti. È provvista di zoccolo.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

GV - SB Connector class

Connectors provided with special backshell for shield hose and heat shrink tubing termination.

It comes complete with conical protection spring, also suitable for thin shield braid.

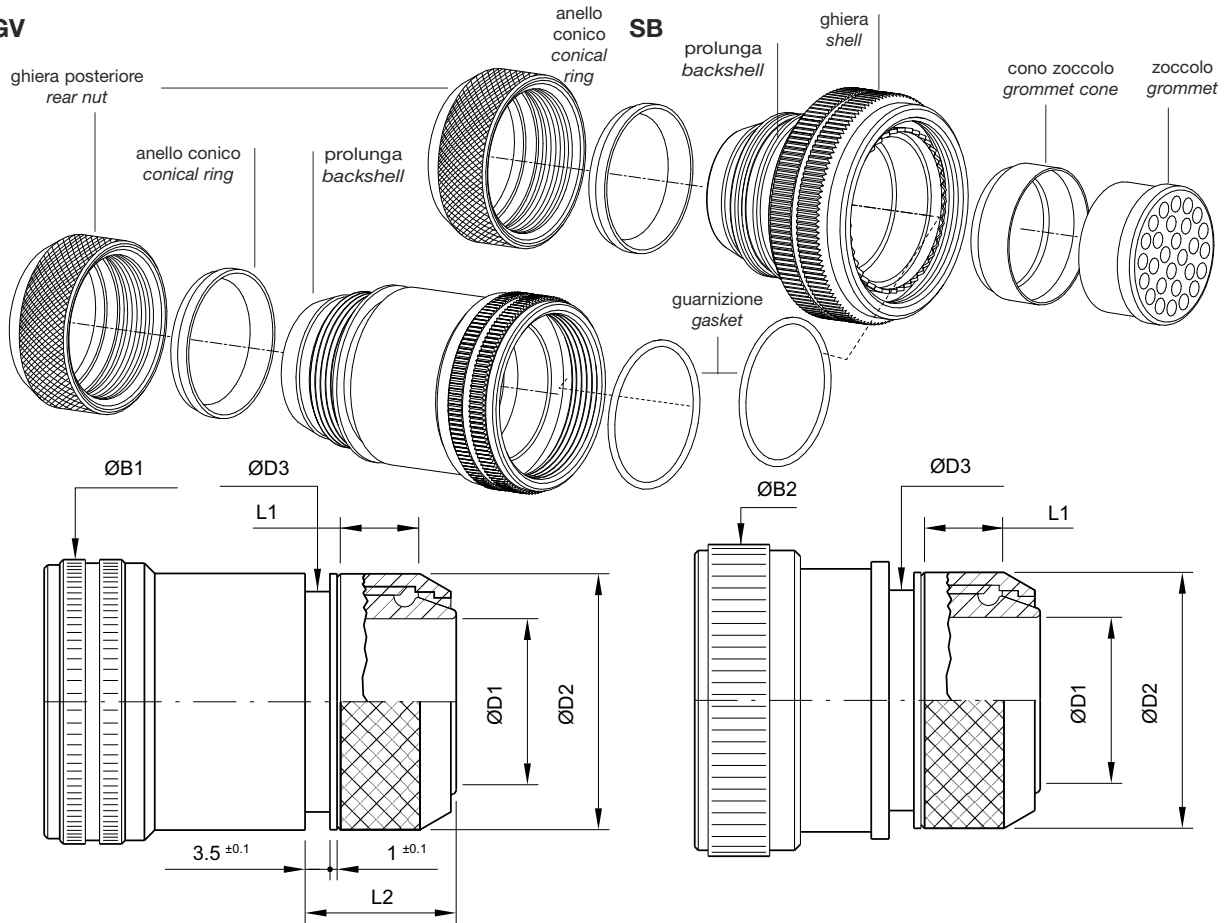
For plug connector applications, we recommend to use shells provided with grounding fingers (96 - 96GG).

GV Class: one piece straight backshell without grommet.

SB Class: two piece backshell includes nut for shell tightening. Internal serration prevents backshell rotation and allows easy assembling after contacts are inserted. It is supplied with grommet.

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

GV



Misura guscio Shell size	ØB1 ±0.2	ØB2 Max	ØD1 Min	ØD2 ±0.2	ØD3 ±0.2	L1 ±0.5	L2 ±0.5
10SL	20	22.5	8.6	18.5	16.3	8	18
14S	24	26.1	10.6	22	20	10	17.6
16S	27	29	10.4	25	23	11.5	20.65
16	27	29	13.5	25	23	10	20.8
18	30	33.5	14.5	28	24.5	10	20.8
20	32	37	18.4	32	28.5	10	20.8
22	37	41	20.7	34	30.5	12	20.8
24	40	46	24.6	38.5	34.5	12	20.7
28	46	51	25	40	36	12	21.75
32	52	58	33.3	48	44	12	20.7
36	58	61	38.5	55	51	12	20.7
40	63.8	69	46	62	58	12	21.8

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

Lunghezza L1 massima del connettore

CONNECTOR SHELLS

Maximum L1 length

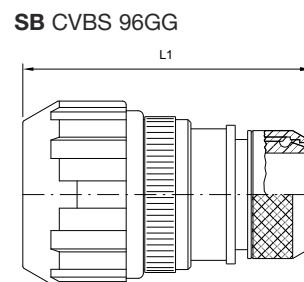
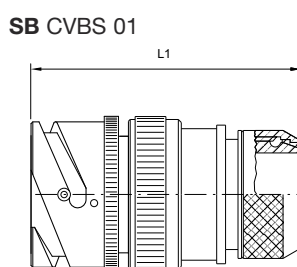
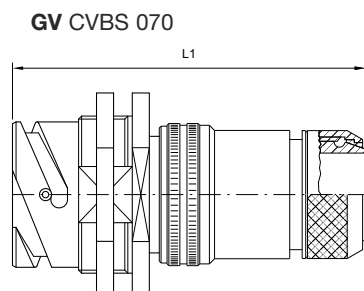
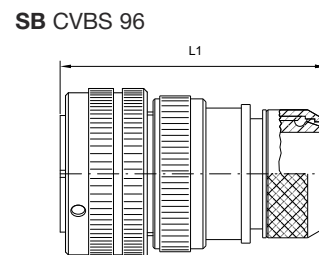
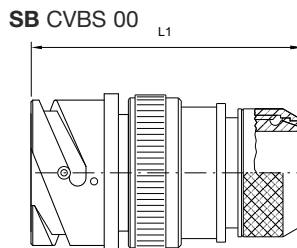
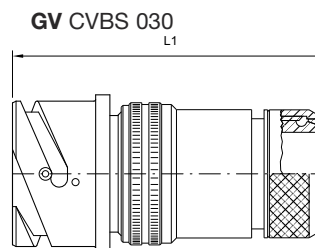
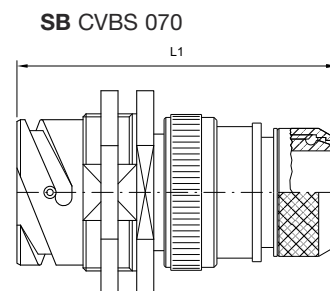
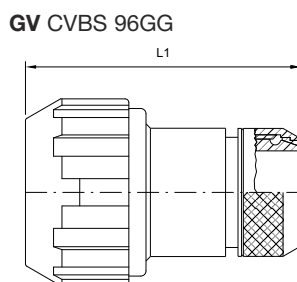
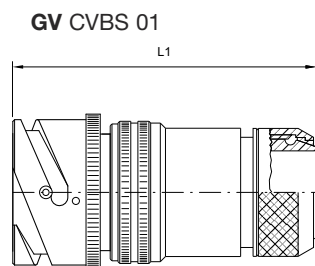
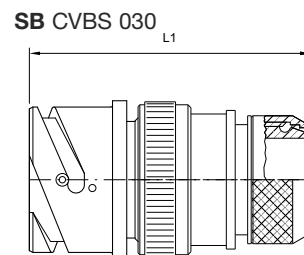
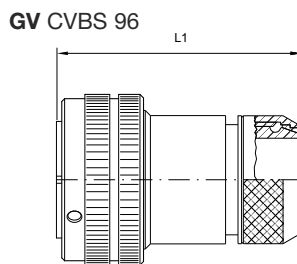
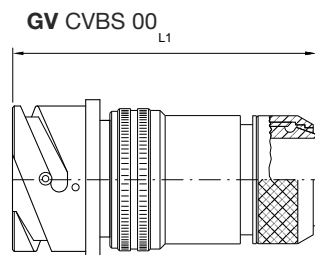
C

GV
SB

Misura guscio Shell size	GV						SB					
	Tipo guscio / Shell version						Tipo guscio / Shell version					
	00	01	030	070	06-96	06GG 96GG	00	01	030	070	96	96GG
10SL	65	65	70	77	66	68.5	60	60	65	77	56	58.5
14S	65	65	70	80	66	68.5	60	60	65	78	56	58.5
16S	65	65	70	80.5	66		60	60	65	78.5	56	60
16	74	74	79	89.5	75.5		65	65	70	82.5	69	73
18	75	75	79	91	75.5	79.5	69	69	73	85	70	74
20	75	75	79	91	75.5	79.5	70	70	74	86	71	75
22	75	75	79	91	75.5	79.5	70	70	74	86	71	75
24	81	81	84	96	81	85	73	73	76	88	73	77
28	81	81	84	96	81	85	74	74	77	89	75	79
32	83	83	85	98	82	86	75	75	77	89	75	79
36	83	83	85	98	82	86	75	75	77	89	75	79
40	83	83	85	98	83	87	75	75	77	89	76	80

Dimensioni in mm

Dimensions in mm



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore AMK - MK

Questa classe è dotata di una guarnizione e di una speciale molla toroidale collegate fra di loro per mezzo di un anello interno. La molla viene utilizzata per il collegamento di schermo di cavi multipolari sottogomma o guaine armate. Un'ulteriore guarnizione, aggiunta all'esterno del corpo principale, fornisce la completa tenuta stagna. Il campo di serraggio nella tabella dimensionale va scelto a seconda delle misure del cavo o della guaina utilizzati e specificato nel codice del connettore.

Classe AMK: fornita senza zoccolo posteriore.

Classe MK: fornita con zoccolo posteriore.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

AMK - MK Connector class

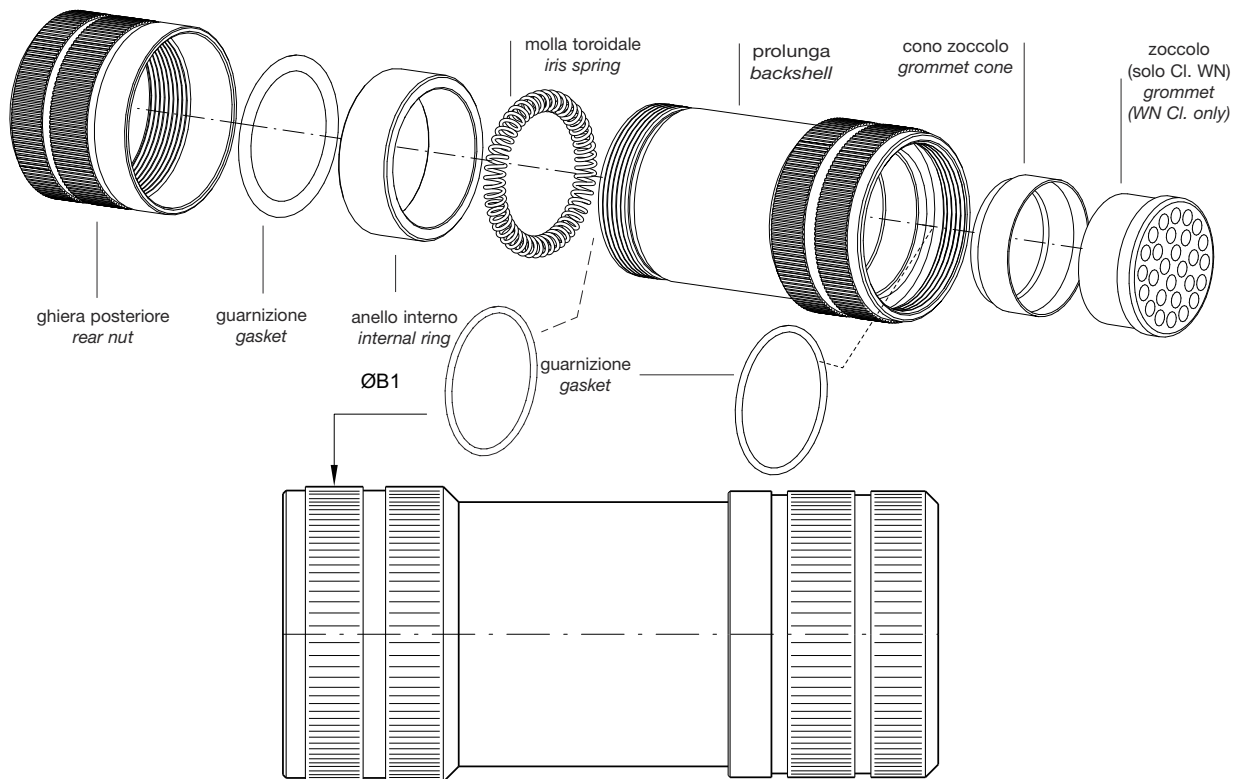
Connectors provided with gasket and iris spring connected to one another by an internal ring. The iris spring is used to connect multicore jacketed cables or jacketed hoses. An additional gasket added outside of the central body guarantees the complete watertightness.

Clamping range on the dimension table has to be chosen according to the size of the cable or hose and specified in the connector P/N.

AMK Class: without grommet.

MK Class: with grommet.

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



Misura guscio Shell size	ØB1 Max	AMK - MK		
		Codice P/N (*)	Campo di serraggio** Clamping range**	
			Max	Min
10SL	20	01	6	3
14S	24	02	9.5	5
16S	27	03	13	8.5
16	27	04	16.5	12
18	30	05	20	15.5
20	32	06	23.5	19
22	37	07	27	22.5
24	40	08	30.5	26
28	45	09	34	29.5
32	52	10	37.5	33
36	58	11	41	36.5
40	63.8	12	44.5	40
		13	48	43.5
		14	51.5	47

Dimensioni in mm

Dimensions in mm

(*) Da indicare nel codice del connettore
(*) Must be specified in the connector

** = Dimensioni indicative. Consultare i nostri Uffici Commerciali per la scelta del codice.

** = Clamping range can be different from the value indicated. Verify with our Customer Service Department.

GUSCI CONNETTORI

Classe connettore AWN - WN

Questa classe è dotata di una guarnizione e di una speciale molla toroidale collegate fra loro per mezzo di un canotto interno. Avvitando la ghiera posteriore la guarnizione e la molla si serrano intorno al cavo, o alla guaina, fornendo un'ottima ritenzione meccanica unitamente alla tenuta stagna.

Il campo di serraggio nella tabella dimensionale va scelto a seconda delle misure del cavo e della sua schermatura e specificato nel codice del connettore.

Nel caso di applicazione con connettori volanti, usare gusci dotati di molla di schermo (96 - 96GG).

Classe AWN: fornita senza zoccolo posteriore.

Classe WN: fornita con zoccolo posteriore.

Gli accessori di questa classe non sono sempre disponibili a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

AWN - WN Connector class

Connectors is provided with gasket and iris spring connected to one another by an internal ring. When screwing the rear coupling nut, the gasket and the spring tighten around the cable or the hose, so to guarantee an excellent mechanical strain relief and watertightness.

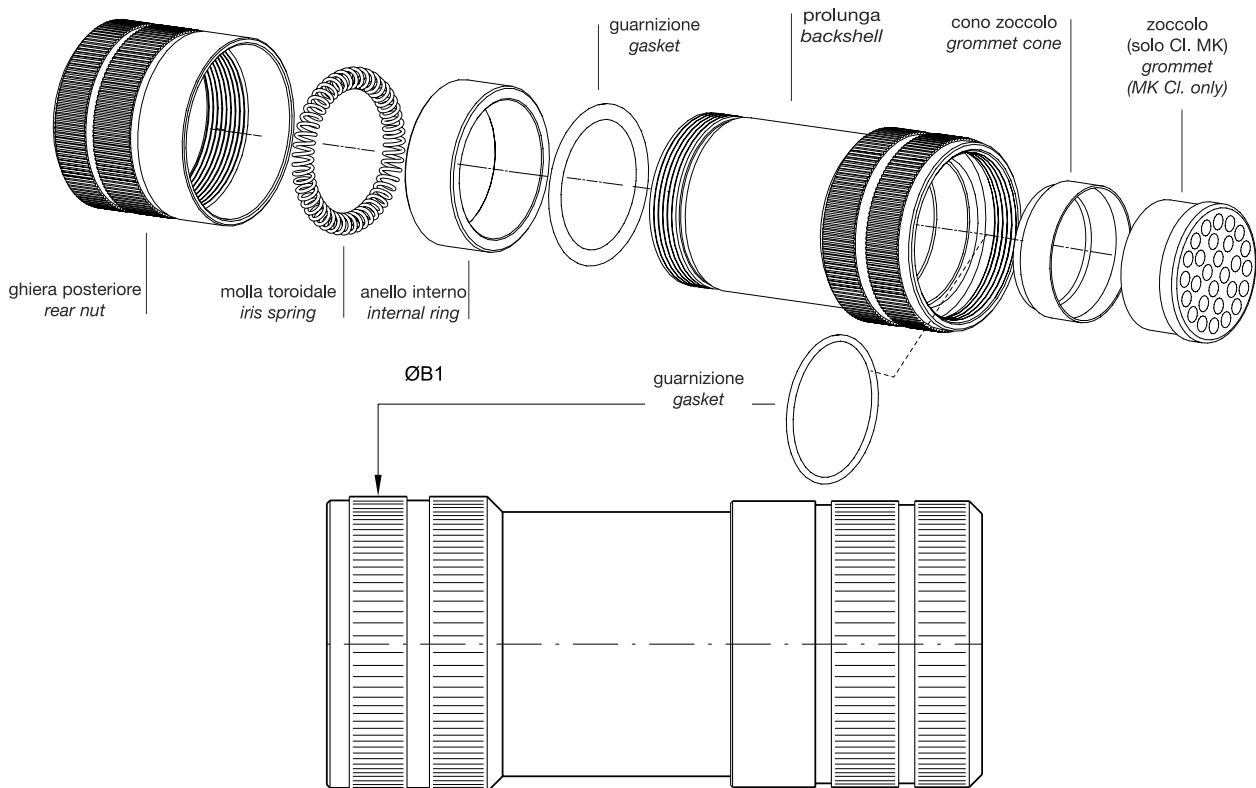
Clamping range on the dimension table has to be chosen according to the cable size and its shielding and specified in the connector P/N.

For plug connector application, we recommend to use shells provided with grounding fingers (96 - 96GG).

AWN Class: without grommet.

WN Class: with grommet.

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



Misura guscio Shell size	ØB1 Max	AWN - WN		
		Codice P/N (*)	Campo di serraggio** Clamping range**	
			Max	Min
10SL	20	01	6	3
14S	24	02	9.5	5
16S	27	03	13	8.5
16	27	04	16.5	12
18	30	05	20	15.5
20	32	06	23.5	19
22	37	07	27	22.5
24	40	08	30.5	26
28	45	09	34	29.5
32	52	10	37.5	33
36	58	11	41	36.5
40	63.8	12	44.5	40
		13	48	43.5
		14	51.5	47

(*) Da indicare nel codice del connettore

(*) Must be specified in the connector

Dimensioni in mm

Dimensions in mm

** = Dimensioni indicative. Consultare i nostri Uffici Commerciali per la scelta del codice.

** = Clamping range can be different from the value indicated. Verify with our Customer Service Department.

GUSCI CONNETTORI

CONNECTOR SHELLS

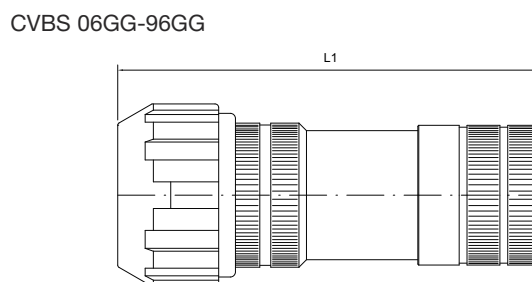
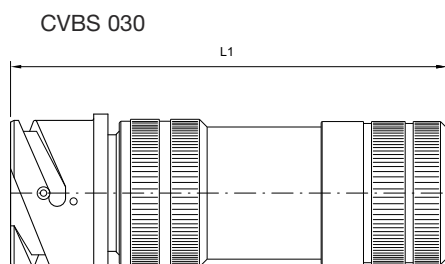
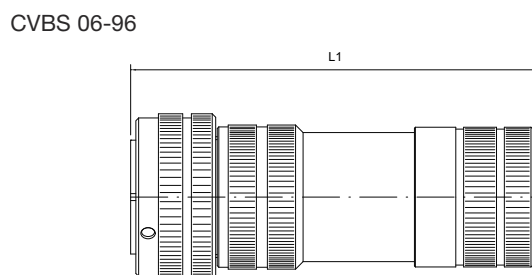
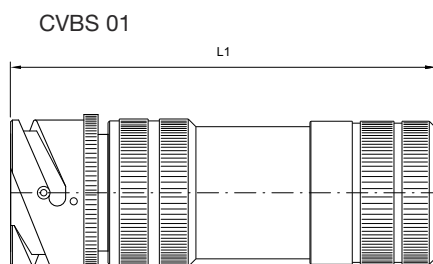
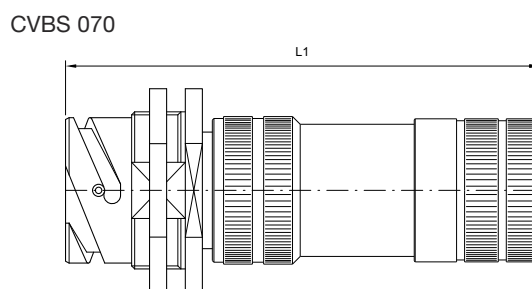
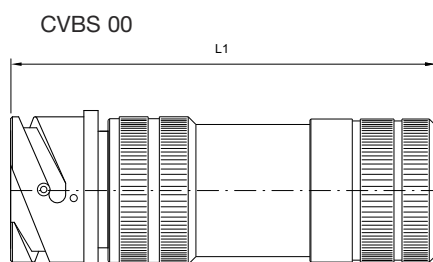
Lunghezza L1 massima del connettore

Maximum L1 length

Misura guscio Shell size	Tipo guscio / Shell version					
	00	01	030	070	06-96	06GG 96GG
10SL	115	115	120	127	116	118.5
14S	115	115	120	130	116	118.5
16S	115	115	120	131	116	
16	146	146	151	162	148	
18	150	150	154	165	151	155
20	150	150	154	166	151	155
22	150	150	154	166	151	155
24	154	154	157	169	154	159
28	154	154	158	170	154	159
32	158	158	160	173	158	162
36	163	163	165	177	162	166
40	166	166	168	177	167	171

Dimensioni in mm

Dimensions in mm



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Serie GVJ

Classe connettore DA - RA

Dotata di prolunga con filetto esterno adatta per serracavo tipo MS3057...tipo A o C (da ordinare separatamente - vedi p. 125 e 127).

È fornibile per uscita cavi diritta o a 90°.

Classe DA: fornita di guarnizione per la tenuta stagna della prolunga.

Classe RA: come precedente, ma fornita di zoccolo posteriore.

CONNECTOR SHELLS

GVJ series

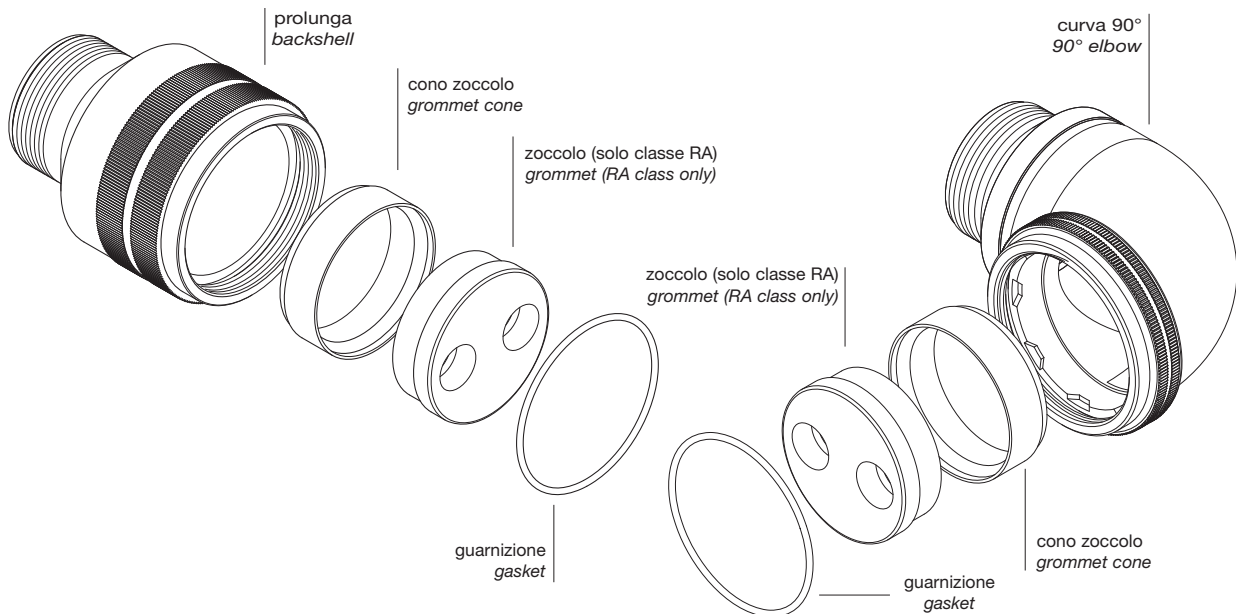
DA - RA Connector class

Connector with backshell having an external thread suitable for MS3057...A or C type cable-clamps (to be ordered separately - see p. 125 and 127).

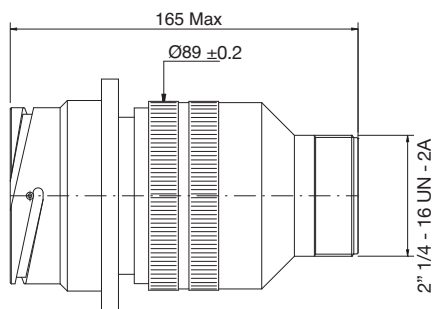
Available with straight or 90° backshell.

DA Class: with waterproof O-ring.

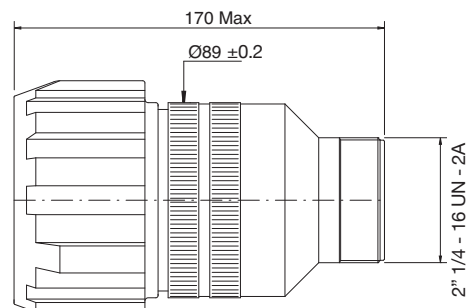
RA Class: as DA class but with grommet.



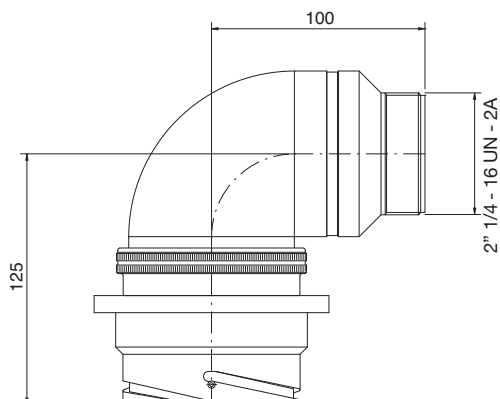
GVJ 00



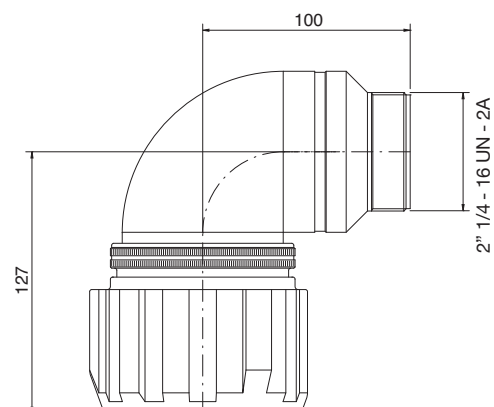
GVJ 06



GVJ 028



GVJ 08



(¹) Dimensioni in mm

(¹) Dimensions in mm

GUSCI CONNETTORI

Serie GVJ

Classe connettore AC - ACF

Questa classe è dotata di prolunga, guarnizione per la tenuta stagna della prolunga, e serracavo tipo MS3057...C. È fornibile per uscita cavi diritta o a 90°.

Classe AC: non provvista di zoccolo posteriore.

Classe ACF: come precedente, ma fornita di zoccolo posteriore.

CONNECTOR SHELLS

GVJ series

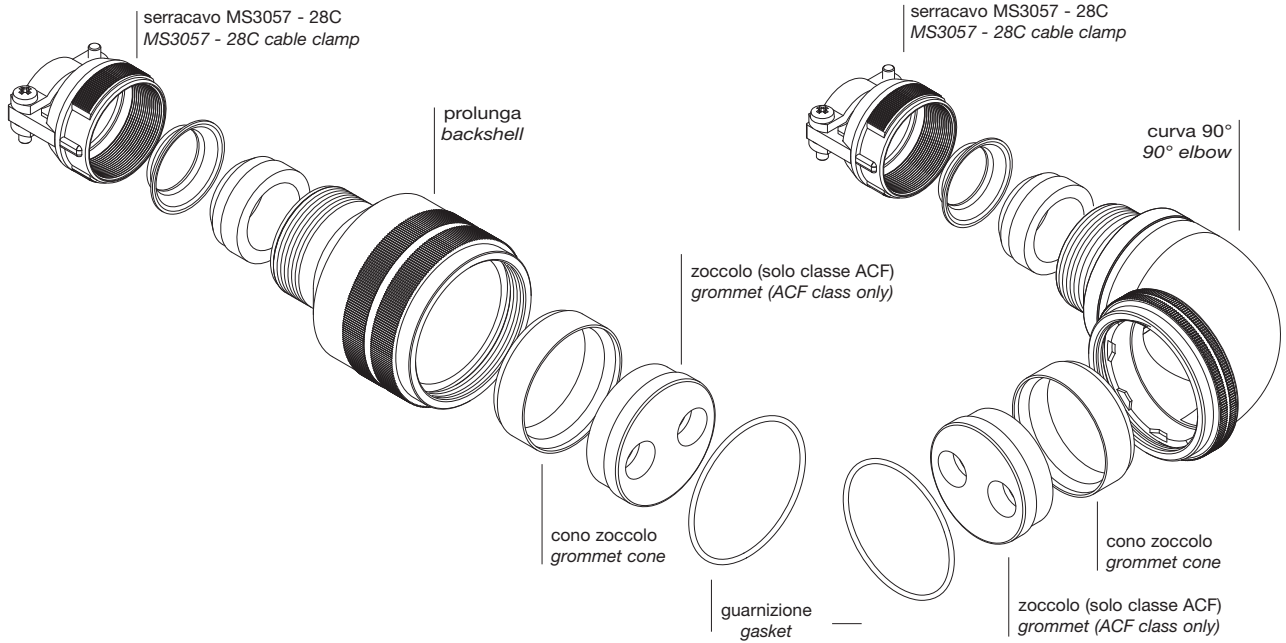
AC - ACF Connector class

Connector provided with backshell, waterproof O-ring and MS3057...C type cable-clamp.

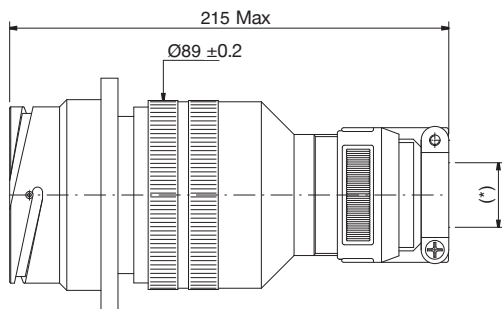
Available with straight or 90° backshell.

AC Class: without grommet.

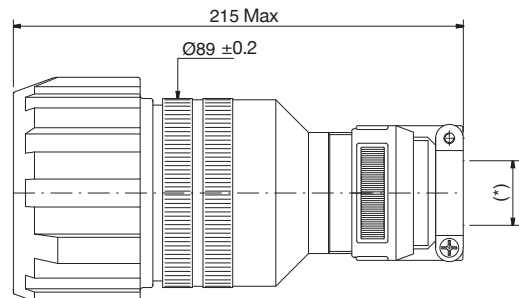
ACF Class: as AC class but with grommet.



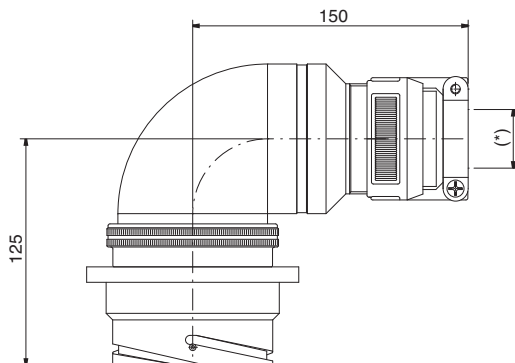
GVJ 00



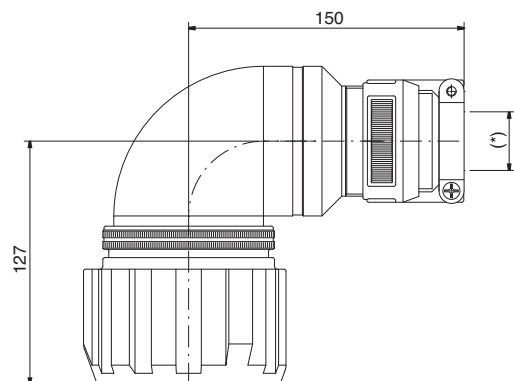
GVJ 06



GVJ 028



GVJ 08



(1) Max 41 Min 32 dimensioni del cavo
Dimensioni in mm

(1) Max 41 Min 32 cable dimensions
Dimensions in mm

GUSCI CONNETTORI

Serie GVJ

Classe connettore DA...PG/M

Classe connettore RA...PG/M

La prolunga è dotata di filetto posteriore interno di tipo PG o Metrico utilizzabile per pressacavi o raccordi di collegamento con guaine o tubi flessibili di protezione di ogni tipo.

Sono disponibili raccordi con filettature di varie misure. Consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

È fornibile per uscita cavi diritta o a 90°.

Classe DA...PG - DA...M: fornita di guarnizione per la tenuta stagna della prolunga.

Classe RA...PG - RA...M: come precedente, ma fornita di zoccolo.

CONNECTOR SHELLS

GVJ series

DA...PG/M Connector class

RA...PG/M Connector class

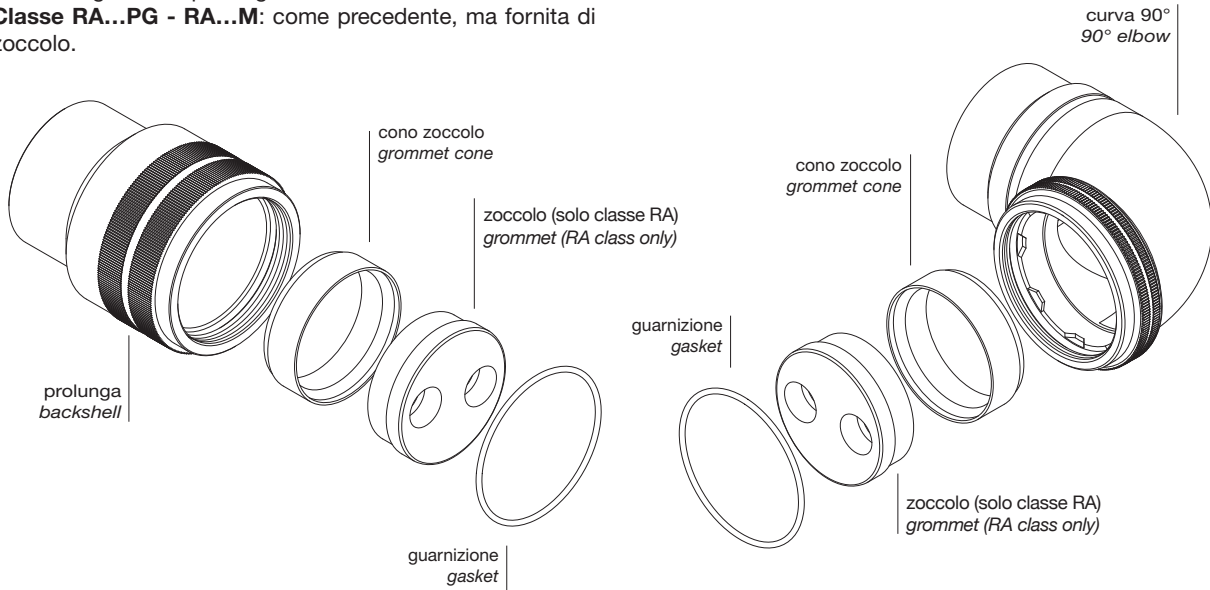
The backshell is provided with an internal PG or metric thread suitable for glands or conduit adapters.

Please consult our Sales Office for further details about available thread sizes.

Available with straight or 90° backshell.

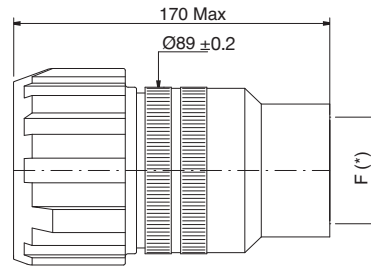
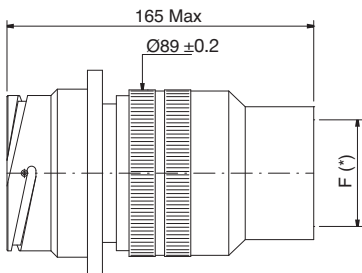
DA...PG - DA...M Class: with sealing O-ring.

RA...PG - RA...M Class: as DA class but with grommet.



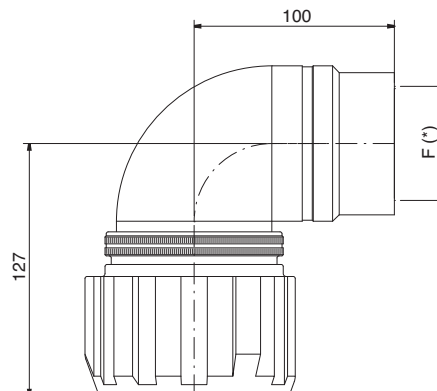
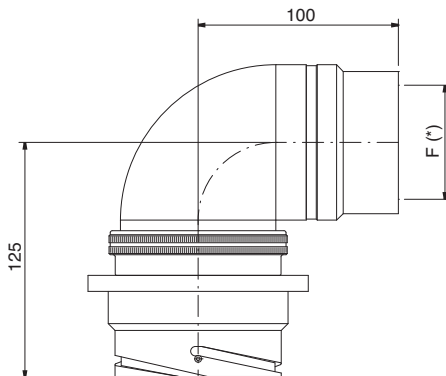
GVJ 00

GVJ 06



GVJ 028

GVJ 08



(°) Consultate il nostro Ufficio Vendite per maggiori dettagli sulle misure di filettature disponibili
Dimensioni in mm

(°) Please consult our Sales Office for further details about available thread sizes
Dimensions in mm

GUSCI CONNETTORI

Serie CVBSG

Classe connettore DAM - RAM

Connettore protetto con prolunga e serracavo ricoperta in gomma. La ritenzione del cavo e la tenuta stagna è assicurata dal sistema guarnizione conica e cono metallico.

È fornibile per uscita cavi diritta o a 90°.

Classe DAM: fornita di guarnizione per la tenuta stagna della prolunga.

Classe RAM: come precedente, ma fornita di zoccolo.

Nel caso di connettore volante gli accessori di questa classe sono da abbinare ad un connettore di tipo CVBSG 06 o CVBSG 08 (vedi p. 69).

Questo prodotto non sempre è disponibile a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

CVBSG series

DAM - RAM Connector class

Protected connector with rubber coated backshell and strain relief.

Cable retention and watertightness are guaranteed by conical gasket and metal cone.

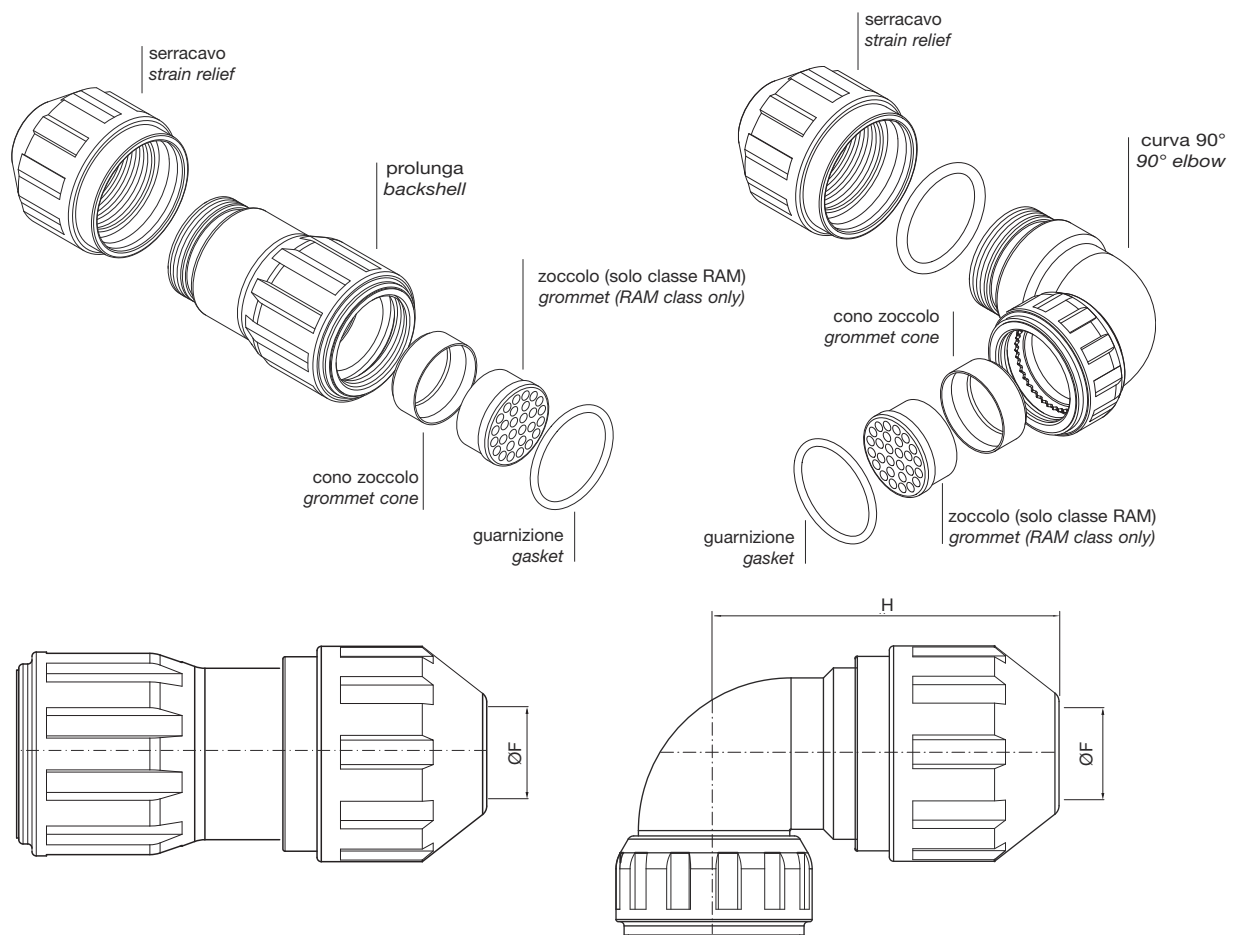
Available with straight or 90° backshell.

DAM Class: with sealing O-ring.

RAM Class: as DA class but with grommet.

For cable connectors these accessories must be mated with CVBSG 06 or CVBSG 08 connectors (see p. 69).

Not all the sizes of this product are always available in stock; therefore we suggest you consult our Sales Office for availability.



Misura guscio Shell size	ØF		H
	Min	Max	Max
18	9.6	15.9	66
20	11.3	19	68
22	11.3	19	76
24	15.5	23.8	83
28	15.5	23.8	84
32	23.4	31.8	88
36	25.4	35	96
40	30	41.3	98

Dimensioni in mm

Dimensions in mm

GUSCI CONNETTORI

Lunghezza L1 massima del connettore

CONNECTOR SHELLS

Maximum L1 length

C

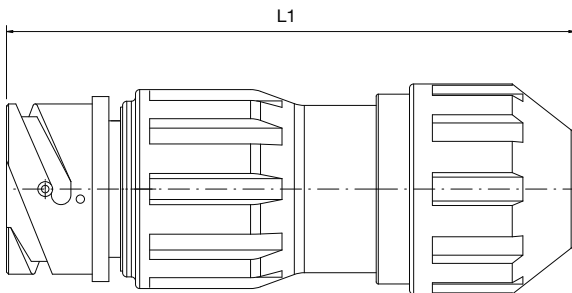
DAM
RAM

Misura guscio Shell size	Tipo guscio / Shell version			
	CVBSG 00	CVBSG 030	CVBSG 06	CVBSG 08
18	102	106	102	68
20	120	124	120	71
22	120	124	120	71
24	140	143	145	76
28	140	144	145	76
32	144	147	147	80
36	152	155	155	84
40	155	158	160	88

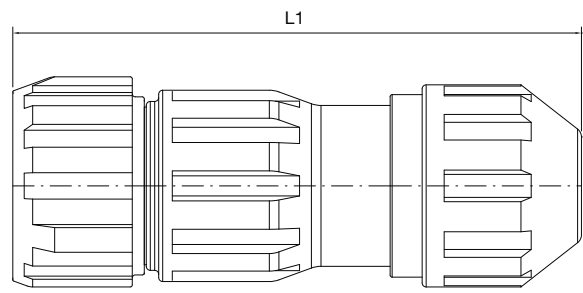
Dimensioni in mm

Dimensions in mm

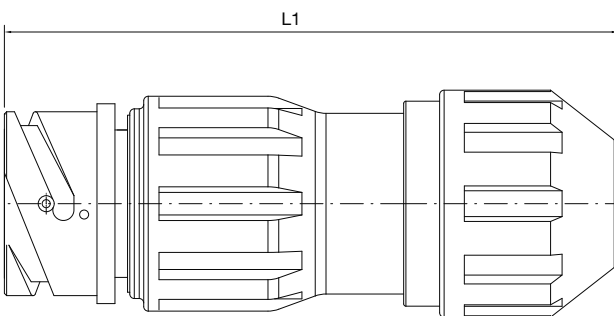
CVBSG 00



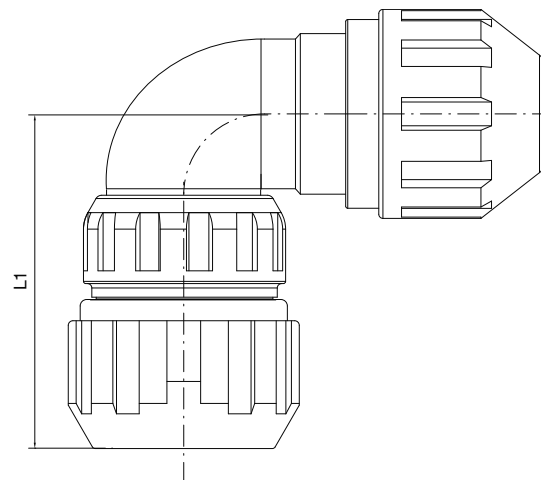
CVBSG 06



CVBSG 030



CVBSG 08



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Serie CVBSG

Classe connettore DA...PG / M / GAS

Classe connettore RA...PG / M / GAS

Connettore protetto con prolunga ricoperta in gomma e provvisto di raccordo in materiale isolante e filetto posteriore interno PG, Metrico o GAS. La misura del filetto deve essere specificata nella sigla.

È fornibile per uscita cavi diritta o a 90°.

Classe DA...PG - DA...M - DA...GAS: fornita di guarnizione per la tenuta stagna della prolunga.

Classe RA...PG - RA...M - RA...GAS: come precedente, ma fornita di zoccolo.

Nel caso di connettore volante gli accessori di questa classe sono da abbinare ad un connettore di tipo CVBSG 06 o CVBSG 08 (vedi p. 69).

Questo prodotto non sempre è disponibile a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

CVBSG series

DA...PG / M / GAS Connector class

RA...PG / M / GAS Connector class

Protected connector with rubber coated backshell and insulated adapter for PG, Metric or GAS thread. Thread size must be specified in the P/N.

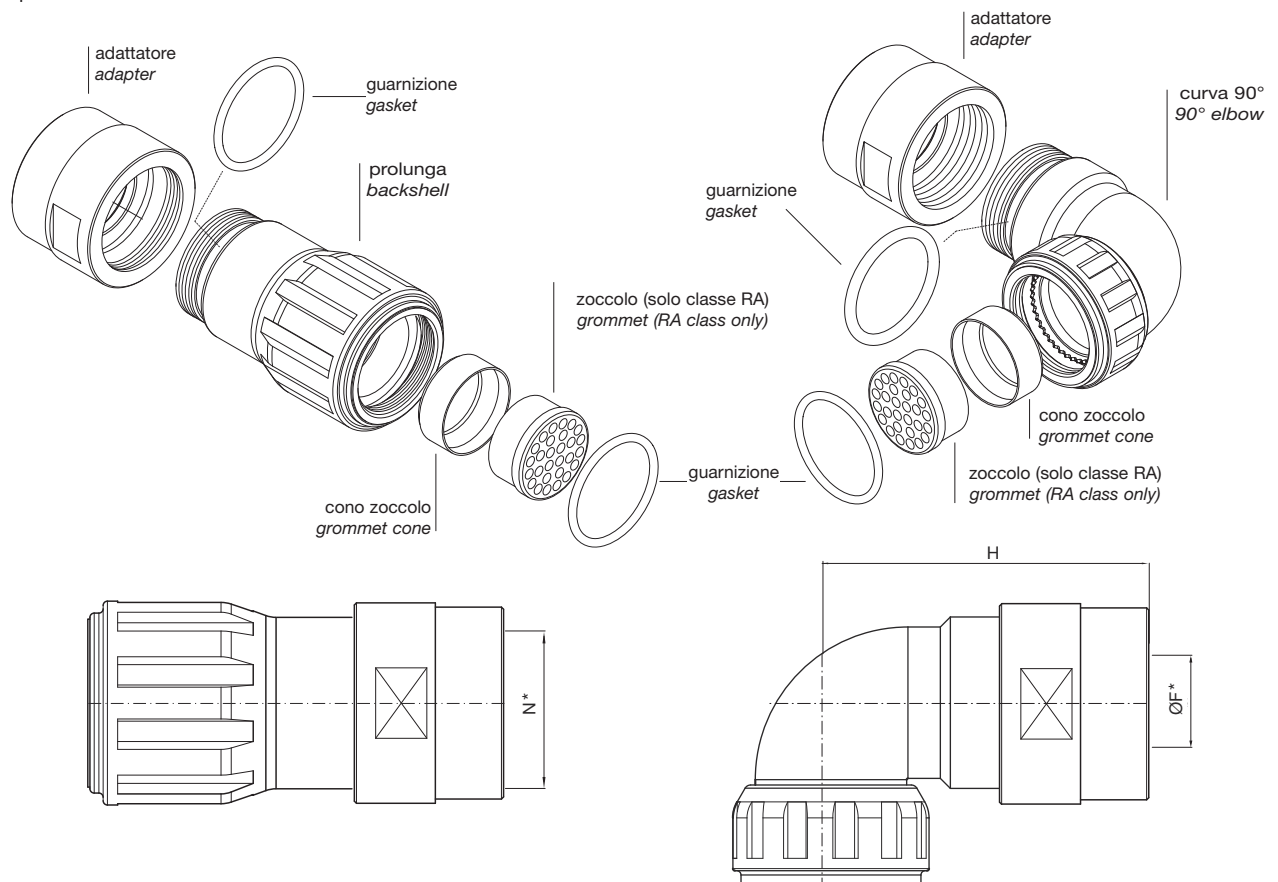
Available with straight or 90° backshell.

DA...PG - DA...M - DA...GAS Class: with sealing O-ring.

RA...PG - RA...M - RA...GAS Class: as DA class but with grommet.

For cable connectors these accessories must be mated with CVBSG 06 or CVBSG 08 connectors (see p. 69).

Not all the sizes of this product are always available in stock; therefore we suggest you consult our Sales Office for availability.



Misura guscio	H
Shell size	Max
18	65
20	67
22	73
24	80
28	82
32	84
36	92
40	94

Dimensioni in mm

Dimensions in mm

(*) Consultate il ns. Ufficio Vendite per maggiori dettagli sulle misure di filettature disponibili (N-F).

(*) Please consult our Sales Office for further details about available thread sizes (N-F).

GUSCI CONNETTORI

Lunghezza L1 massima del connettore

CONNECTOR SHELLS

Maximum L1 length

C

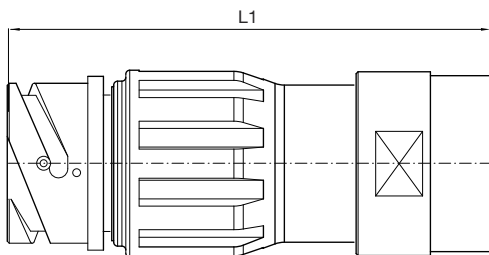
DA...
PG/
M/
GAS
RA...
PG/
M/
GAS

Misura guscio Shell size	Tipo guscio / Shell version			
	CVBSG 00	CVBSG 030	CVBSG 06	CVBSG 08
18	99	103	99	68
20	116	120	116	71
22	116	120	116	71
24	136	139	141	76
28	136	140	141	76
32	140	143	143	80
36	148	151	151	84
40	151	154	156	88

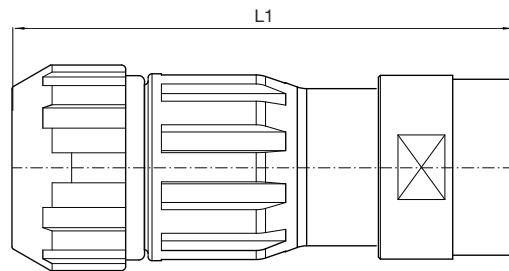
Dimensioni in mm

Dimensions in mm

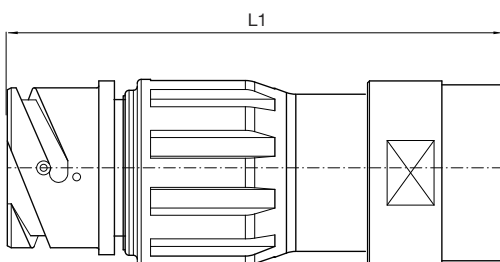
CVBSG 00



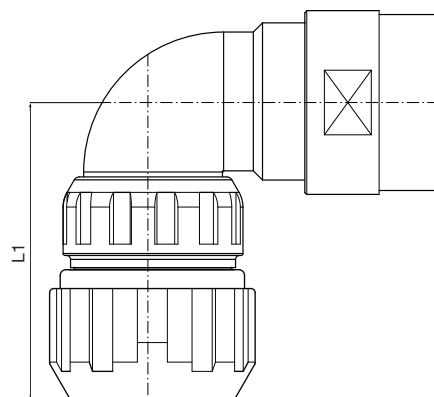
CVBSG 06



CVBSG 030



CVBSG 08



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Serie CVBSG

Classe connettore DA...FS - RA...FS

Connettore protetto con prolunga ricoperta in gomma e provvisto di raccordo isolato per il collegamento a tubo in gomma telata UNI4883 di protezione cavi.

Specificare la dimensione del tubo utilizzato, indicandone nella sigla il diametro esterno ed interno in mm (es.: CVBSG 06DA...FS5040...).

È fornibile per uscita cavi diritta o a 90°.

Classe DA...FS: fornita di guarnizione per la tenuta stagna della prolunga.

Classe RA...FS: come precedente, ma fornita di zoccolo. Gli accessori di questa classe sono da abbinare ad un connettore di tipo CVBSG 06 o CVBSG 08 (vedi p. 69).

Questo prodotto non sempre è disponibile a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

CVBSG series

DA...FS - RA...FS Connector class

Protected connector with rubber coated backshell and insulated adapter for UNI4883 rubber conduits.

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

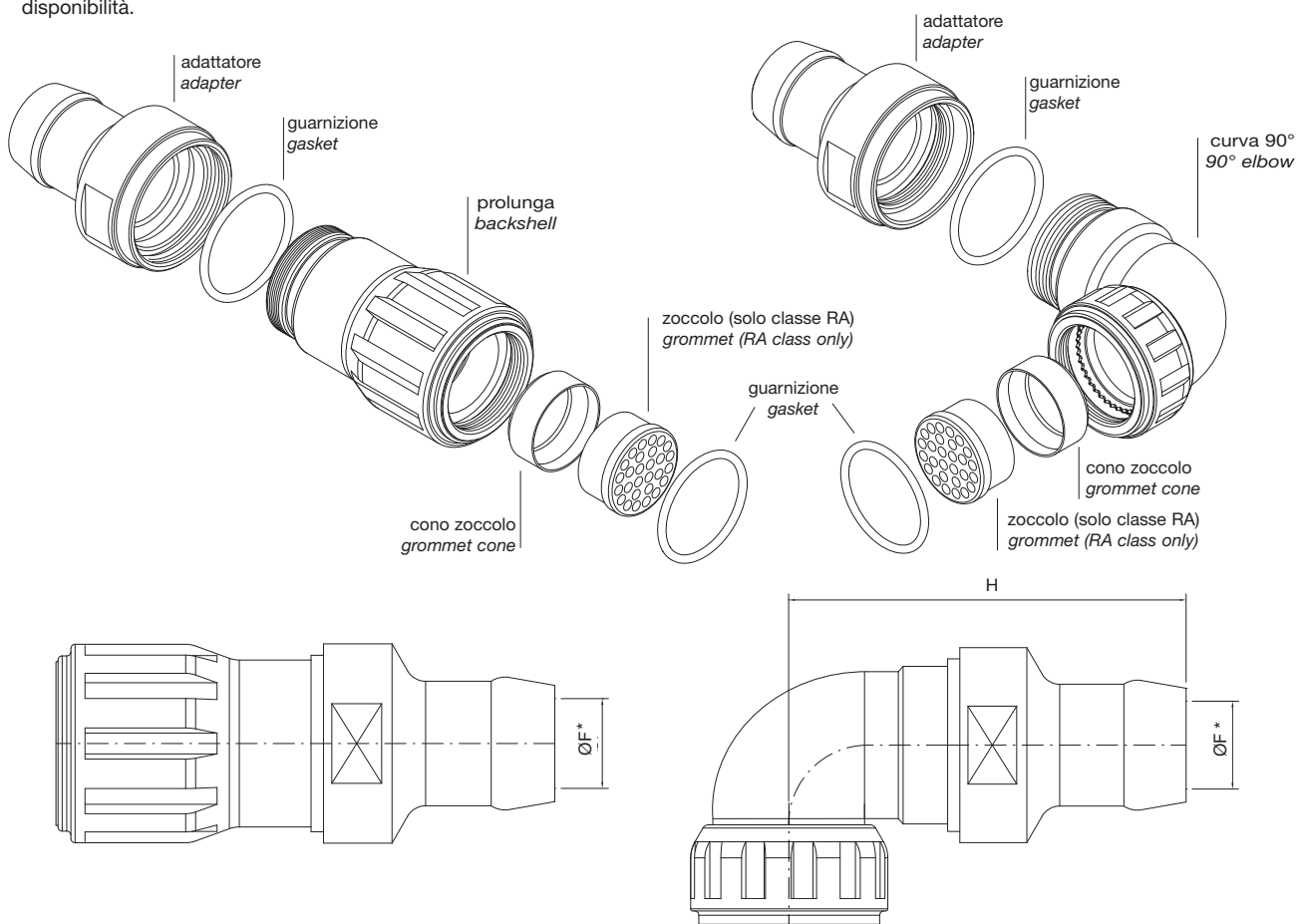
Available with straight or 90° backshell.

DA...FS Class: with sealing O-ring.

RA...FS Class: as DA class but with grommet.

These accessories must be mated with CVBSG 06 or CVBSG 08 connectors (see p. 69).

Not all the sizes of this product are always available in stock; therefore we suggest you consult our Sales Office for availability.



Misura guscio	H
Shell size	Max
18	85
20	85
22	85
24	85
28	85
32	85
36	90
40	95

Dimensioni in mm

Dimensions in mm

(*) Consultate il ns. Ufficio Vendite per maggiori dettagli su questa dimensione in funzione del tubo utilizzato.

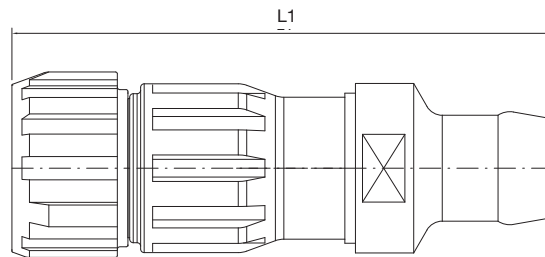
(*) Please consult our Sales Office for further details about this dimension and according to conduit size.

Misura guscio Shell size	Tipo guscio / Shell version	
	06	08
18	115	68
20	128	71
22	128	71
24	150	76
28	150	76
32	150	80
36	160	84
40	165	88

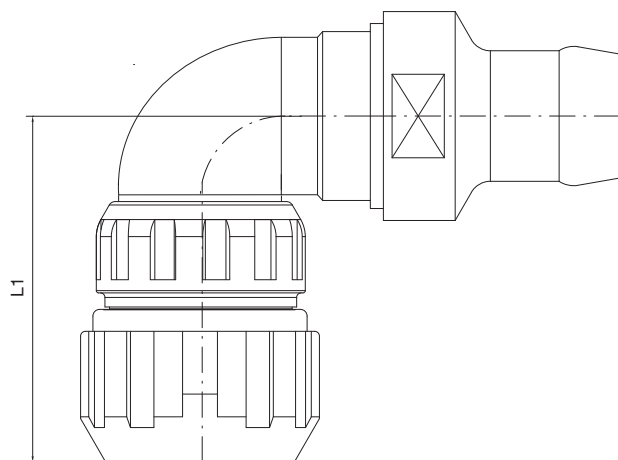
Dimensioni in mm

Dimensions in mm

CVBSG 06



CVBSG 08



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Serie CVBSG

Classe connettore DA...MTG - RA...MTG

Connettore protetto con prolunga e serracavo ricoperti in gomma. Il serracavo è provvisto di cono interno per il serraggio e ritenzione di tubo in gomma telata UNI4883 di protezione cavi.

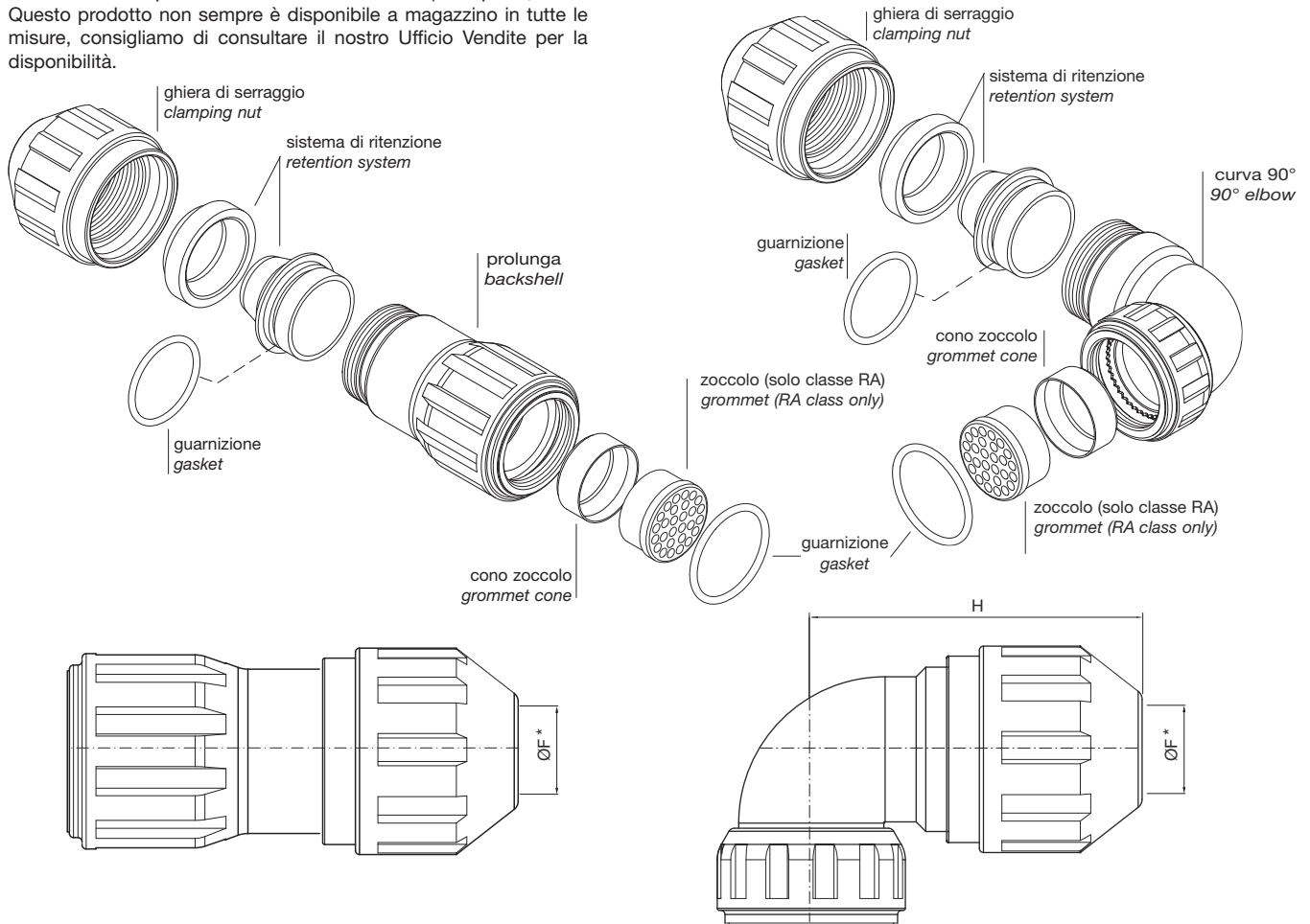
Specificare la dimensione del tubo utilizzato, indicandone nella sigla il diametro esterno ed interno in mm (es.: CVBSG 06DA...MTG5040...).

È fornibile per uscita cavi diritta o a 90°.

Classe DA...MTG: fornita di guarnizione per la tenuta stagna della prolunga.

Classe RA...MTG: come precedente, ma fornita di zoccolo. Gli accessori di questa classe sono da abbinare ad un connettore di tipo CVBSG 06 o CVBSG 08 (vedi p. 69).

Questo prodotto non sempre è disponibile a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.



CONNECTOR SHELLS

CVBSG series

DA...MTG - RA...MTG Connector class

Protected connector with rubber coated backshell and strain relief.

An internal cone provides clamping and retaining of UNI4883 rubber conduits.

Conduit's size must be specified adding the diameter dimensions in the P/N (i.e.: CVBSG 06DA...MTG5040...).

Available with straight or 90° backshell.

DA...MTG Class: with sealing O-ring.

RA...MTG Class: as DA class but with grogmet.

These accessories must be mated with CVBSG 06 or CVBSG 08 connectors (see p. 69).

Not all the sizes of this product are always available in stock; therefore we suggest you consult our Sales Office for availability.

Misura guscio Shell size	H Max
18	66
20	68
22	76
24	83
28	84
32	88
36	96
40	98

Dimensioni in mm

Dimensions in mm

(*) Consultate il ns. Ufficio Vendite per maggiori dettagli su questa dimensione in funzione del tubo utilizzato.

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

GUSCI CONNETTORI

Lunghezza L1 massima del connettore

CONNECTOR SHELLS

Maximum L1 length

C

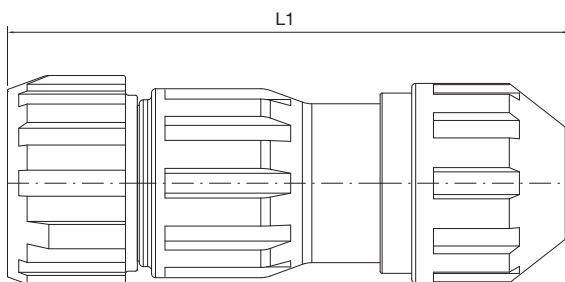
DA...
MTG
RA...
MTG

Misura guscio Shell size	Tipo guscio / Shell version	
	06	08
18	102	68
20	120	71
22	120	71
24	145	76
28	145	76
32	147	80
36	155	84
40	160	88

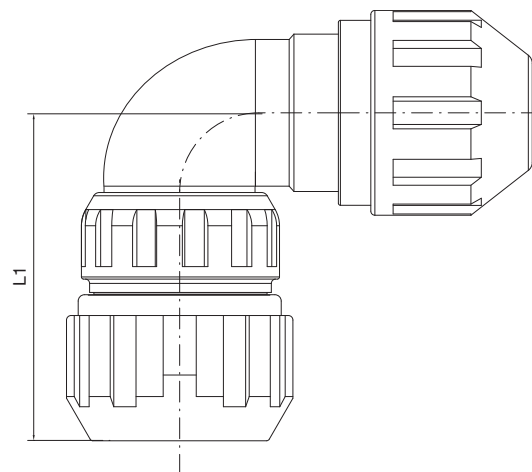
Dimensioni in mm

Dimensions in mm

CVBSG 06



CVBSG 08



⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

GUSCI CONNETTORI

Serie CVBSG
Classe connettore AMK - MK

Connettore protetto con prolunga e serracavo ricoperta in gomma. La ritenzione del cavo e la tenuta stagna è assicurata da una guarnizione. Avvitando il serracavo la guarnizione e la molla si serrano intorno al cavo, o alla guaina, fornendo un'ottima ritenzione meccanica unitamente alla tenuta stagna. La molla toroidale viene utilizzata per il collegamento di schermo di cavi multipolari. È fornibile per uscita cavi diritta o a 90°.

Classe AMK: fornita di guarnizione per la tenuta stagna della prolunga.

Classe MK: come precedente, ma fornita di zoccolo.

Nel caso di connettore volante gli accessori di questa classe sono da abbinare ad un connettore di tipo CVBSG 06 o CVBSG 08 (vedi p. 69).

Questo prodotto non sempre è disponibile a magazzino in tutte le misure, consigliamo di consultare il nostro Ufficio Vendite per la disponibilità.

CONNECTOR SHELLS

CVBSG series
AMK - MK Connector class

Protected connector with rubber coated backshell and strain relief. Cable retention and watertightness are guaranteed by a gasket. When screwing the cable clamp the gasket and the spring tighten around the cable or the hose so to guarantee an excellent mechanical strain relief and watertightness.

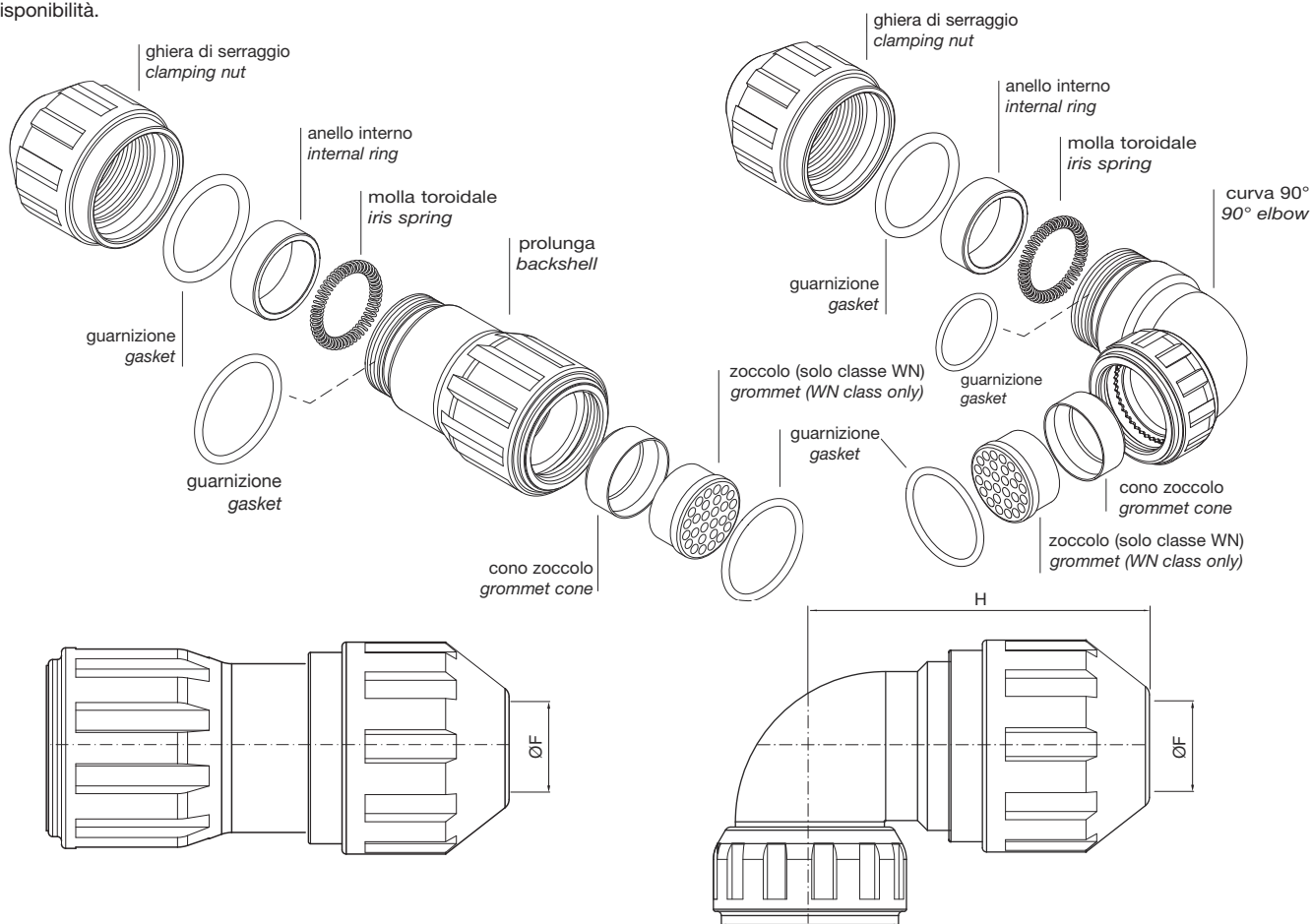
The iris spring is used to connect multicore jacketed cables or jacketed noses. Available with straight or 90° backshell.

AMK Class: without grommet.

MK Class: with grommet.

For cable connectors these accessories must be mated with CVBSG 06 or CVBSG 08 connectors (see p. 69).

Not all the sizes of this product are always available in stock; therefore we suggest you consult our Sales Office for availability.



Misura guscio Shell size	ØF**		H
	Min	Max	Max
18	13	16	66
20	16	19	68
22	16	19	76
24	19	22	83
28	22	25	84
32	28	31	88
36	32	35	96
40	38	41	98

Dimensioni in mm

Dimensions in mm

** = Dimensioni indicative. Consultare i nostri Uffici Commerciali per la scelta del codice.

** = Clamping range can be different from the value indicated. Verify with our Customer Service Department.

GUSCI CONNETTORI

Lunghezza L1 massima del connettore

CONNECTOR SHELLS

Maximum L1 length

C

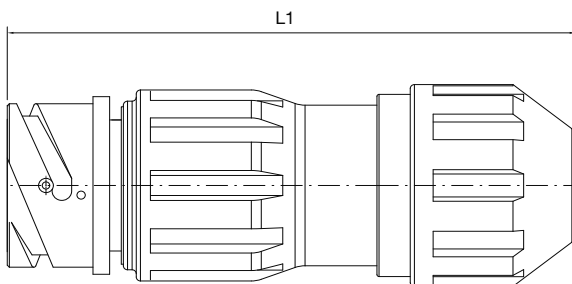
AWN
WN

Misura guscio Shell size	Tipo guscio / Shell version			
	CVBSG 00	CVBSG 030	CVBSG 06	CVBSG 08
18	102	106	102	68
20	120	124	120	71
22	120	124	120	71
24	140	143	145	76
28	140	144	145	76
32	144	147	147	80
36	152	155	155	84
40	155	158	160	88

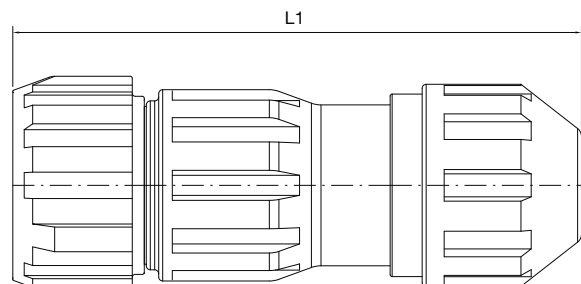
Dimensioni in mm

Dimensions in mm

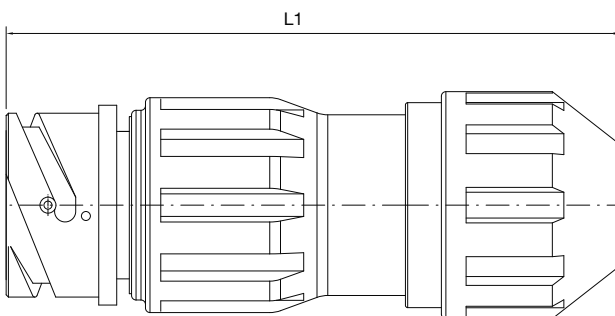
CVBSG 00



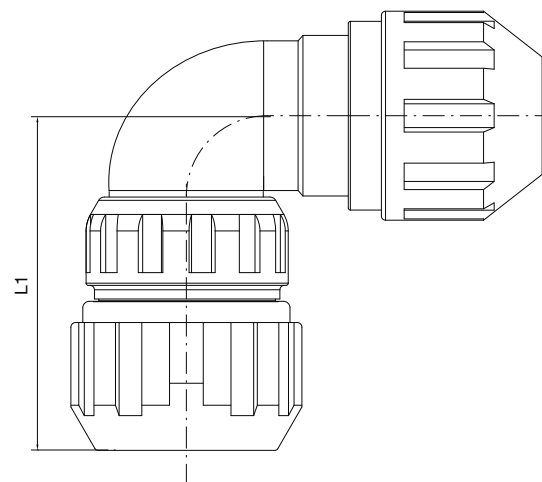
CVBSG 06



CVBSG 030



CVBSG 08



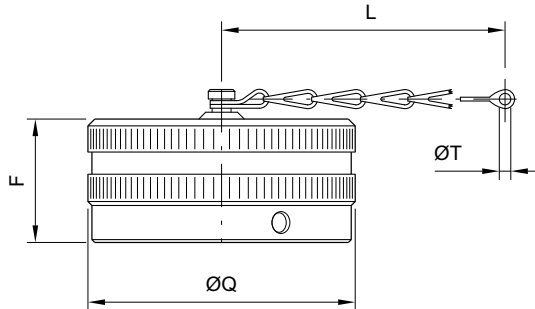
⁽¹⁾ la dimensione "L1" è indicativa può variare dai valori indicati a seconda delle custodie, ingombro cavi e alcune disposizioni inserto. Verificare con il nostro ufficio commerciale.

⁽¹⁾ Dimension "L1" can be different from the value indicated according to backshells accessories, wires size and some special insert configurations. Verify with our Customer Service Department.

ACCESSORI CONNETTORI

Tappi con catena per connettori 00 - 02 - 020 - 01 - 030 - 03 - 07- 070 - TB

Sono provvisti di guarnizione per la tenuta stagna.
La catena e i raccordi sono in acciaio inossidabile.



ACCESSORIES FOR CONNECTORS

Caps with chain for 00 - 02 - 020 - 01 - 030 - 03 - 07 - 070 - TB connectors

Provided with sealing gasket.
Chain and lugs are in stainless steel.

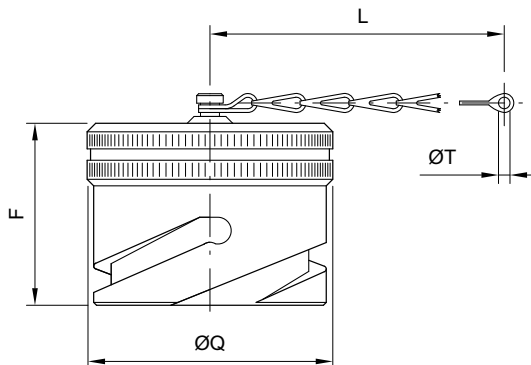
Misura guscio Shell size	Codice Van-System Van-System P/N	ØQ ±0.2	F ±0.2	L min	ØT ±0.2
10SL	CVB 043-10S	23.6	16	108	4.3
14S	CVB 043-14S	30	16	108	4.3
16S	CVB 043-16S	33	16	108	4.3
16	CVB 043-16	33.6	20.9	123	4.3
18	CVB 043-18	38	21.7	123	4.3
20	CVB 043-20	40.5	21.7	123	4.3
22	CVB 043-22	44	21.7	123	4.3
24	CVB 043-24	47	21.7	123	4.3
28	CVB 043-28	53	21.7	206	4.3
32	CVB 043-32	60	21.7	206	4.3
36	CVB 043-36	66.2	21.7	206	4.3
40	CVB 043-40	72.4	21.7	206	4.3
GVJ	GVJ 043	96	28.2	285	8.4

Dimensioni in mm

Dimensions in mm

Tappi con catena per connettori 06 - 06GG - 96GG - 08 - 98 - 08GG - 98GG

Non sono provvisti di guarnizione perché sono accoppiati a connettori normalmente provvisti di guarnizione frontale.
La catena e i raccordi sono in acciaio inossidabile.



Caps with chain for 06 - 06GG - 96GG - 08 - 98 - 08GG - 98GG connectors

These caps have no sealing gasket because mated with connectors generally provided with front gasket.
Chain and lugs are in stainless steel.

Misura guscio Shell size	Codice Van-System Van-System P/N	ØQ ±0.2	F ±0.2	L min	ØT ±0.2
10SL	CVB 042-10S	20.6	27.3	108	4.3
14S	CVB 042-14S	27	27.3	123	4.3
16S	CVB 042-16S	29.8	27.3	123	4.3
16	CVB 042-16	29.8	34.5	123	4.3
18	CVB 042-18	33	34.5	123	4.3
20	CVB 042-20	36.5	34.5	138	4.3
22	CVB 042-22	39.7	34.5	138	4.3
24	CVB 042-24	43.2	34.5	138	4.3
28	CVB 042-28	48.9	34.5	206	4.3
32	CVB 042-32	55.5	34.5	206	4.3
36	CVB 042-36	61.6	34.5	206	4.3
40	CVB 042-40	67.6	34.5	206	4.3
GVJ	GVJ 042	93	60	285	8.4

Dimensioni in mm

Dimensions in mm

ACCESSORI CONNETTORI

Guarnizioni C215/C215R per connettori 00 - 020 - 02

Queste guarnizioni sono utilizzate nel caso in cui si vogliono rendere stagni i connettori montati dal fronte pannello.

Ne esistono di due tipi:*

- guarnizioni C215 non conduttive in cloroprene (protezione IP67)
- guarnizioni C215R conduttive in cloroprene stampato sopra una rete di lega di alluminio (protezione IP65). Assicurano la tenuta stagna e la continuità di schermo

I connettori della serie GVJ non necessitano di guarnizione.

ACCESSORIES FOR CONNECTORS

Gaskets C215/C215R for 00 - 020 - 02 connectors

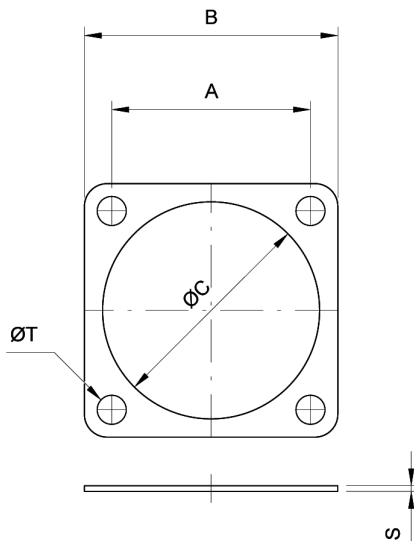
These gaskets are used to make front mounting panel connectors water resistant.

Available in two versions:*

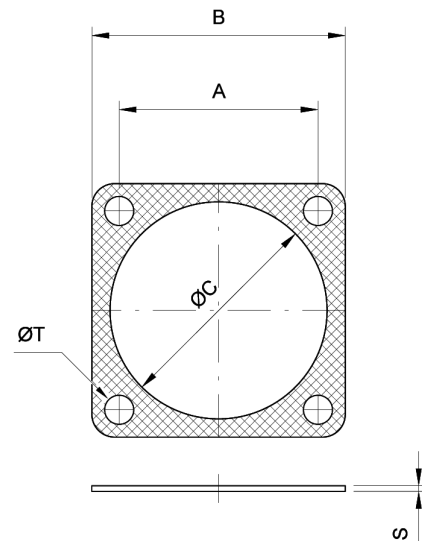
- gasket C215 – non conductive chloroprene rubber gasket (IP67 protection)
- gasket C215R – conductive chloroprene rubber gasket with embedded metal screen (IP65 protection). These gaskets guarantee watertightness and RFI shielding

These gaskets are not needed by GVJ connectors.

C215



C215R



* = a richiesta guarnizioni RF resistenti alla fiamma, (V) in miscela fluorurata o (S) silicone.

* = on request: RF flame resistant gaskets, (V) Fluoride rubber or (S) silicone gaskets.

Codice Van-System Van-System P/N		Misura guscio Shell size	A ±0.2	B -0 +0.4	ØC ±0.3	S		ØT ±0.3
Non conduttive Non conductive	Conduttive Conductive					C215	C215R	
C215-10	C215R-10	10SL	18.2	25.4	16.3	1±0.3	0.5±0.2	4.3
C215-14	C215R-14	14S	23	30.2	22.2	1±0.3	0.5±0.2	4.3
C215-16	C215R-16	16S/16	24.6	32.5	25.4	1±0.3	0.5±0.2	4.3
C215-18	C215R-18	18	27	35	28.6	1±0.3	0.5±0.2	5.1
C215-20	C215R-20	20	29.4	38.1	31.8	1±0.3	0.5±0.2	5.1
C215-22	C215R-22	22	31.8	41.2	34.9	1±0.3	0.5±0.2	5.1
C215-24	C215R-24	24	34.9	44.5	38.1	1±0.3	0.5±0.2	5.1
C215-28	C215R-28	28	39.7	50.8	44.5	1±0.3	0.5±0.2	5.1
C215-32	C215R-32	32	44.5	57	50.8	1±0.3	0.5±0.2	5.5
C215-36	C215R-36	36	49.2	63.5	55.6	1±0.3	0.5±0.2	5.5
C215-40	C215R-40	40	55.5	69.9	61.9	1±0.3	0.5±0.2	5.5

Dimensioni in mm

Dimensions in mm

ACCESSORI CONNETTORI

Guarnizioni C216/C216R per connettori
03 - 030 - 038

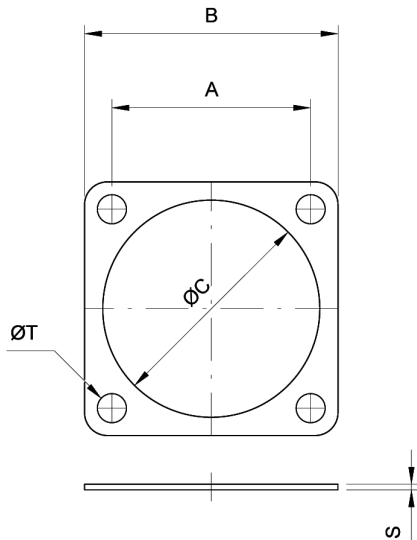
Queste guarnizioni sono utilizzate nel caso in cui si vogliono rendere stagni i connettori montati dal retro pannello.

Ne esistono di due tipi: *

- guarnizioni C216: non conduttive in cloroprene (protezione IP67)
- guarnizioni C216R: conduttive in cloroprene stampate sopra una rete di lega di alluminio (protezione IP65). Assicurano la tenuta stagna e la continuità di schermo

I connettori della serie GVJ non necessitano di guarnizione.

C216



* = a richiesta guarnizioni RF resistenti alla fiamma, (V) in miscela fluorurata o (S) silicone.

ACCESSORIES FOR CONNECTORS

Gaskets C216/C216R for 03 - 030 - 038
connectors

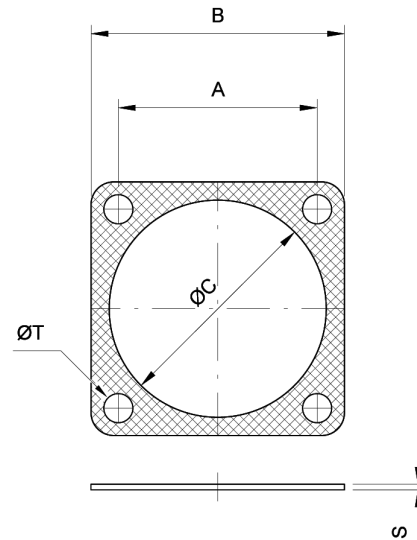
These gaskets are used to make rear mounting panel connectors waterproof.

Available in two versions: *

- gasket C216: non conductive chloroprene rubber gasket (IP67 protection)
- gasket C216R: conductive chloroprene rubber gasket with embedded metal screen (IP65 protection). These gaskets guarantee watertightness and RFI shielding

These gaskets are not needed by GVJ connectors.

C216R



* = on request: RF flame resistant gasket, (V) Fluoride rubber or (S) silicone gaskets.

Codice Van-System Van-System P/N		Misura guscio Shell size	A ±0.2	B -0 +0.4	ØC ±0.3	S		ØT ±0.3
Non conduttive Non conductive	Conduttive Conductive					C216	C216R	
C216-10	C216R-10	10SL	18.2	25.4	18.2	0.8±0.3	0.5±0.2	4.2
C216-14	C216R-14	14S	23	30	24.6	0.8±0.3	0.5±0.2	4.2
C216-16	C216R-16	16S/16	24.6	32.5	27.4	0.8±0.3	0.5±0.2	4.2
C216-18	C216R-18	18	27	35	30.8	0.8±0.3	0.5±0.2	4.2
C216-20	C216R-20	20	29.4	38	34.2	0.8±0.3	0.5±0.2	4.2
C216-22	C216R-22	22	31.8	41.4	37.4	0.8±0.3	0.5±0.2	4.2
C216-24	C216R-24	24	34.9	44.5	40.9	0.8±0.3	0.5±0.2	4.2
C216-28	C216R-28	28	39.7	50.8	46.7	0.8±0.3	0.5±0.2	5.1
C216-32	C216R-32	32	44.5	57	53.4	0.8±0.3	0.5±0.2	5.1
C216-36	C216R-36	36	49.2	63.5	59.6	0.8±0.3	0.5±0.2	5.1
C216-40	C216R-40	40	55.5	69.9	65.5	0.8±0.3	0.5±0.2	5.1

Dimensioni in mm

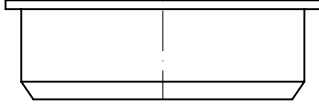
Dimensions in mm

ACCESSORI CONNETTORI

Tappi di protezione in plastica

Questi tappi sono utilizzati per proteggere i connettori dalla polvere.

Non sono forniti in dotazione al connettore e devono essere quindi ordinati separatamente.



ACCESSORIES FOR CONNECTORS

Plastic caps

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

Tappi per connettori con guscio Caps for connector version 00 - 02 - 020 - 01 - 030 - 03 - 07 - 070 - TB	
Misura guscio Shell size	Codice Van-System Van-System P/N
10SL	412101
14S	412102
16S	412103
16	412104
18	412105
20	412106
22	412107
24	412108
28	412109
32	412140
36	412141
40	412142
GVJ	412143

Dimensioni in mm *Dimensions in mm*

Tappi per connettori con guscio Caps for connector version 06 - 96 - 08 - 98	
Misura guscio Shell size	Codice Van-System Van-System P/N
10SL	412131
14S	412132
16S	412133
16	412134
18	412135
20	412136
22	412137
24	412138
28	412139
32	4121310
36	4121311
40	4121312
GVJ	4121313

Dimensioni in mm *Dimensions in mm*

I disegni sono indicativi e possono variare in funzione delle grandezze.
The drawings are indicative only and they could be change according to the size

ACCESSORI CONNETTORI

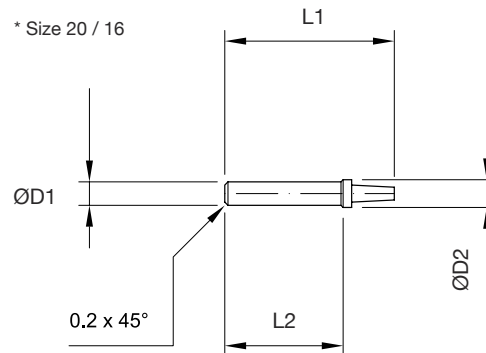
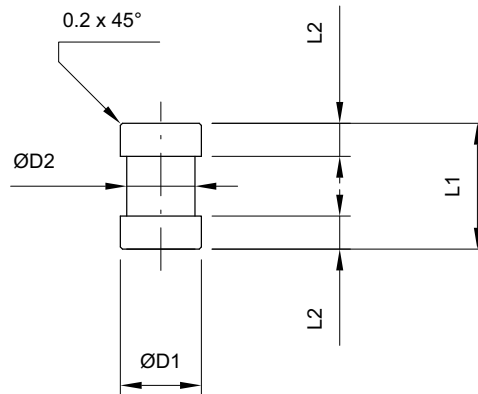
Otturatori per fori inserti

Questi otturatori sono utilizzati nel caso che non siano impiegate tutte le cavità dell'isolante predisposte per l'alloggiamento dei contatti.

ACCESSORIES FOR CONNECTORS

Contacts hole plugs for inserts

These are employed when not all contact cavities of inserts are used.



Misura contatto Contact size	Codice otturatore Wire hole plug P/N	Usato per inserto Used for insert	ØD1	ØD2	L1	L2
20	W61P110798 *	•	1.6	2.3	14	11
16	W61P123671 *	•	2.2	2.6	15.8	10.8
12	W61P130798	•	4.55	3.7	11.95	3.15
8	W61P140798	•	7.6	6.4	11.8	3.1
4	W61P150798	•	10.9	9.7	11.8	3.1
0	W61P160798	•	15	13.5	14.3	4.3

Dimensioni in mm

Dimensions in mm

Otturatori per zoccolo posteriore a richiesta.

Wire hole plugs for grommets on request

ACCESSORI CONNETTORI

Morsetto serracavo MS 3057 - ...A

Questi morsetti serracavo mantengono il cavo centrato rispetto all'asse del connettore e offrono una ottima ritenzione meccanica del cavo stesso.

Non sono a tenuta stagna e vengono di solito forniti separatamente a eccezione dei connettori in classe F.

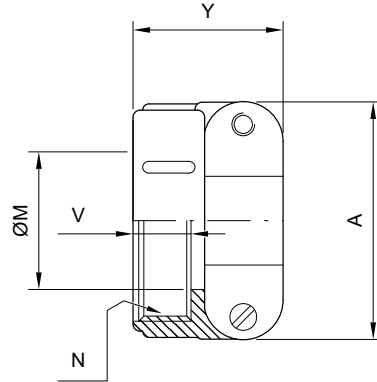
F7: vernice epossiretanica nera

ACCESSORIES FOR CONNECTORS

MS 3057 - ...A Cable clamp

These cable-clamps keep the cable in the connector axial position and guarantee an excellent mechanical strain relief. They are not waterproof and are generally supplied separately except for class F connectors.

F7: black epoxy varnish



Codice P/N*	Usato con connettori misura Connector size	Y Max	V ±0.2	A Max	ØM Max	N
MS 3057-4A F7	10SL	20.6	10.5	22.5	8	0.625-24UNEF 2B
MS 3057-6A F7	14S	22.2	10.5	28	11	0.750-20UNEF 2B
MS 3057-8A F7	16S - 16	25	10.5	30	14.2	0.875-20UNEF 2B
MS 3057-10A F7	18	25	10.5	32	15.8	1.000-20UNEF 2B
MS 3057-12A F7	20 - 22	25	10.5	37.5	19	1.1875-18UNEF 2B
MS 3057-16A F7	24 - 28	26	10.5	43.5	23.8	1.4375-18UNEF 2B
MS 3057-20A F7	32	28	12.5	51.5	31.7	1.750-18UNEF 2B
MS 3057-24A F7	36	29.4	14	58.5	35	2.000-18UNS 2B
MS 3057-28A F7	40	42.8	14	68.5	41.2	2.250-16UN 2B

Dimensioni in mm

Dimensions in mm

* = Trattamento a richiesta / Finishes on request:

- F4: CCF-GREEN
- F16: CCF-BLACK

ACCESSORI CONNETTORI

Manicotto MS 3420 - ... - RFCVS 3420 - ...

Sono in materiale elastomerico e sono utilizzati, a corredo del morsetto MS3057 - ...A, per la protezione del cavo.

È possibile montare nello stesso morsetto serracavo più di un manicotto (uno dentro all'altro) in modo da ottenere diametri molto più piccoli di quello nominale.

Ne esistono di due tipi:

MS 3420 - ... in gomma cloroprenica.

RFCVS 3420 - ... in gomma resistente alla fiamma.

ACCESSORIES FOR CONNECTORS

MS 3420 - ... - RFCVS 3420 - ... Bushing

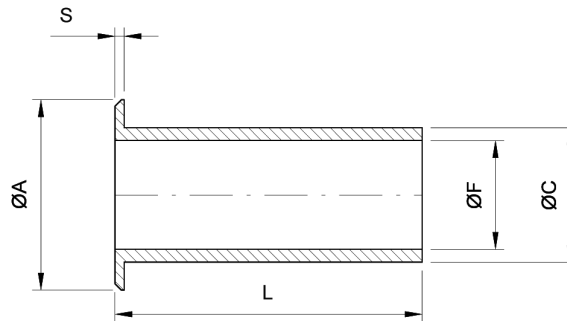
They are made of elastomeric rubber and used with cable-clamp MS3057 - ...A to protect the cable.

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 chloroprene rubber.

RFCVS 3420 - ... in flame resistant rubber.



Codice con guarnizione in cloroprene**	Codice con guarnizione resistente alla fiamma	Usato con serracavi misura	ØA ±0.2	ØF (*)	ØC ±0.2	S ±0.2	L ±0.2
<i>P/N with gasket in chloroprene rubber</i>	<i>P/N with flame resistant gasket</i>	<i>Cable clamp size</i>					
MS 3420-4	RFCVS 3420-4	MS 3057-4A	12.8	5.6	7.6	1.6	69.8
MS 3420-6	RFCVS 3420-6	MS 3057-6A	15.7	7.9	10.8	1.6	66.8
MS 3420-8	RFCVS 3420-8	MS 3057-8A	18.8	11	14	1.6	63.5
MS 3420-10	RFCVS 3420-10	MS 3057-10A	22	14.2	15.6	1.6	60.3
MS 3420-12	RFCVS 3420-12	MS 3057-12A	27	15.8	18.8	1.6	57.1
MS 3420-16	RFCVS 3420-16	MS 3057-16A	33.3	19	23.6	1.6	53.9
MS 3420-20	RFCVS 3420-20	MS 3057-20A	40.5	23.8	31.5	1.6	50.8
MS 3420-24	RFCVS 3420-24	MS 3057-24A	46.9	31.7	34.8	1.6	47.6
MS 3420-28	RFCVS 3420-28	MS 3057-28A	52.9	34.9	41	1.6	44.4

Dimensioni in mm

(*) Diametro massimo del cavo

** = In alternativa:

V = Mescola Fluorata

S = Mescola Siliconica

Dimensions in mm

(*) Max cable diameter

** = In alternative:

V = Fluoride Rubber

S = Silicone Rubber

ACCESSORI CONNETTORI

Morsetto serracavo MS 3057 - ...C - RFCVS 3057 - ...C

Questi morsetti serracavo, oltre a realizzare un'ottimale ritenzione meccanica del cavo stesso mantenendolo in asse con il connettore, posseggono una guarnizione conica interna che offre una buona tenuta stagna.

Le viti sono in acciaio inossidabile e sono provviste di rosetta elastica anti vibrazioni.

Ne esistono di due tipi:

MS 3057 - ...C con guarnizione in gomma cloroprenica.

RFCVS 3057 - ...C con guarnizione in gomma resistente alla fiamma.

F7: vernice epossiretanica nera

ACCESSORIES FOR CONNECTORS

MS 3057 - ...C - RFCVS 3057 - ...C 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.

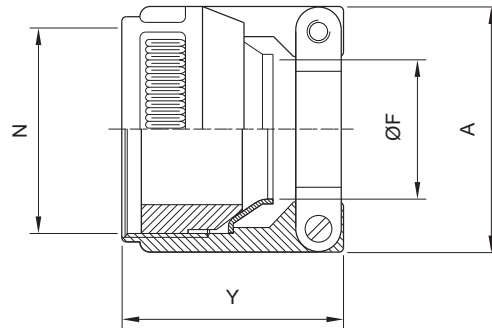
The screws in stainless steel have elastic rose-cut antivibration head.

Available in two versions:

MS 3057 - ...C with gasket in chloroprene rubber.

RFCVS 3057 - ...C with gasket in flame resistant rubber.

F7: black epoxy varnish



Codice con guarnizione in cloroprene** <i>P/N with gasket in chloroprene rubber</i>	Codice con guarnizione resistente alla fiamma** <i>P/N with flame resistant gasket</i>	Da usare con connettori misura <i>To be used with connector size</i>	ØF(*)		Y Max	A ±0.2	N
			Max	Min			
MS 3057-4C F7	RFCVS 3057-4C F7	10SL	7.9	2.4	33.4	23	0.625-24UNEF 2B
MS 3057-6C F7	RFCVS 3057-6C F7	14S	11.2	5.8	32.3	26	0.750-20UNEF 2B
MS 3057-8C F7	RFCVS 3057-8C F7	16S - 16	13.5	8	32.3	28.5	0.875-20UNEF 2B
MS 3057-10C F7	RFCVS 3057-10C F7	18	15.9	9.6	35	32	1.000-20UNEF 2B
MS 3057-12C F7	RFCVS 3057-12C F7	20 - 22	19	11.3	35.7	37.5	1.1875-18UNEF 2B
MS 3057-16C F7	RFCVS 3057-16C F7	24 - 28	23.8	15.5	39	43.5	1.4375-18UNEF 2B
MS 3057-20C F7	RFCVS 3057-20C F7	32	31.8	23.4	44.8	54	1.750-18UNEF 2B
MS 3057-24C F7	RFCVS 3057-24C F7	36	35	25.4	52	58	2.000-18UNS 2B
MS 3057-28C F7	RFCVS 3057-28C F7	40 - GVJ	41.3	30	52.3	63.5	2.250-16UN 2B

Dimensioni in mm

Dimensions in mm

(*) Dimensioni massime e minime del cavo

(*) Max and min cable dimensions

** = In alternativa:

1) Guarnizione:

- V = Miscela Fluorata
- S = Miscela Siliconica

2) Trattamento:

- F4 = CCF-GREEN
- F16 = CCF-BLACK

** = In alternative:

1) Gasket:

- V = Fluoride Rubber
- S = Silicone Rubber

2) Finishes:

- F4 = CCF-GREEN
- F16 = CCF-BLACK

ACCESSORI CONNETTORI

Manicotto MS 3420 - ...A -
RFCVS 3420 - ...A

Sono in materiale elastomerico e sono utilizzati, a corredo del morsetto MS 3057 - ...C, per la protezione del cavo. Permettono di impiegare cavi di diametro più piccolo di quello nominale.

Ne esistono di due tipi:

MS 3420 - ...A in gomma cloroprenica.

RFCVS 3420 - ...A in gomma resistente alla fiamma.

ACCESSORIES FOR CONNECTORS

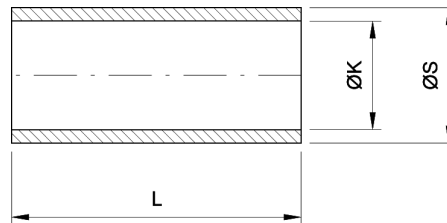
MS 3420 - ...A - RFCVS 3420 - ...A
Bushing

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 chloroprene rubber.

RFCVS 3420 - ...A in flame resistant rubber.



Codice con guarnizione in cloroprene** <i>P/N with gasket in chloroprene rubber</i>	Codice con guarnizione resistente alla fiamma* <i>P/N with flame resistant gasket</i>	Usato con serracavi misura <i>Cable clamp size</i>	ØS ±0.2	ØK ±0.2	L ±0.8
MS 3420-4A	RFCVS 3420-4A	MS 3057-4C	7.8	5.6	50.8
MS 3420-6A	RFCVS 3420-6A	MS 3057-6C	11	7.9	50.8
MS 3420-8A	RFCVS 3420-8A	MS 3057-8C	13.6	11.1	50.8
MS 3420-10A	RFCVS 3420-10A	MS 3057-10C	15.8	11.1	50.8
MS 3420-12A	RFCVS 3420-12A	MS 3057-12C	18.9	13.7	50.8
MS 3420-16A	RFCVS 3420-16A	MS 3057-16C	23.7	19	50.8
MS 3420-20A	RFCVS 3420-20A	MS 3057-20C	31.6	23.8	50.8
MS 3420-24A	RFCVS 3420-24A	MS 3057-24C	35	28.5	50.8
MS 3420-28A	RFCVS 3420-28A	MS 3057-28C	41.1	31.8	50.8

Dimensioni in mm

Dimensions in mm

* = A richiesta

* = On request

** = In alternativa:

V = Mescola Fluorata
S = Mescola Siliconica

** = In alternative:

V = Fluoride Rubber
S = Silicone Rubber

ACCESSORI CONNETTORI

ACCESSORIES FOR CONNECTORS

Utensili per la pinzatura dei contatti

Contact crimp tools

Misura contatto Contact size	Codice Van-System Van-System P/N	Sezione mm ² mm ² section	Sezione AWG AWG section	Pinza manuale Manual crimp tool	Pinza pneumatica Pneumatic crimp tool	Locatore Locator	Inseritore Insertion tool	Estrattore Removal tool	Ogiva Guide pin
20	ST485 20P/S	0.15÷0.3	26÷22	CRT-784/1	PCT-784	LOC-784-20	CTIN-784-18/20	CTES-784-20	GP-784-20
20	ST485 20P/1	0.15÷0.3	26÷22	CRT-784/1	PCT-784	LOC-784-20	CTIN-784-18/20	CTES-784-20	*
20	ST485 20P/2	0.15÷0.3	26÷22	CRT-784/1	PCT-784	LOC-784-20	CTIN-784-18/20	CTES-784-20	*
18	ST485 18P/S	0.15÷0.6	26÷20	CRT-784/1	PCT-784	LOC-784-18	CTIN-784-18/20	CTES-784-18	GP-784-18
16S	ST485 16SP/S	1÷1.5	18÷16	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16S	ST485 16S-12P/S	0.5	20	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16S	ST485 16S-13P/S	0.15÷0.5	26÷20	CRT-784/1	PCT-784	LOC-784	CTIN-784-18	CTES-784-16	GP-784-16
16S	ST485 16S-15P/S	1	18	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16S	ST485 16S-20P/S	2	14	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16S	ST485 16S-26P/S	3	12	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16	ST485 16P/S	1÷1.5	18÷16	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16	ST485 16-08P/S	0.15÷0.2	26÷24	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16	ST485 16-12P/S	0.6	20	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16	ST485 16-13P/S	0.15÷0.6	26÷20	CRT-784/1	PCT-784	LOC-784	CTIN-784-18	CTES-784-16	GP-784-16
16	ST485 16-15P/S	1	18	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16	ST485 16-20P/S	2	14	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
16	ST485 16-26P/S	3	12	CRT-784/1	PCT-784	LOC-784	CTIN-784-16	CTES-784-16	GP-784-16
12	ST485 12-12P/S	0.6	20	CRT-784/1	PCT-784	LOC-784	CTIN-784-12	CTES-784-12	GP-784-12
12	ST485 12-15P/S	1	18	CRT-784/1	PCT-784	LOC-784	CTIN-784-12	CTES-784-12	GP-784-12
12	ST485 12-18P/S	1÷2	18÷14	CRT-784/1	PCT-784	LOC-784	CTIN-784-12	CTES-784-12	GP-784-12
12	ST485 12-22P/S	2.5	-	CRT-784/1	PCT-784	LOC-784	CTIN-784-12	CTES-784-12	GP-784-12
12	ST485 12-P/S	3	12	CRT-784/1	PCT-784	LOC-784	CTIN-784-12	CTES-784-12	GP-784-12
12	ST485 12-30P/S	4	-	CRT-784/1	PCT-784-A	LOC-784	CTIN-784-12/1	CTES-784-12	GP-784-12
12	ST485 12-38P/S	6	-	CRT-784/1	PCT-784-A	LOC-784	CTIN-784-12/1	CTES-784-12	GP-784-12
8	ST485 8P/S	9	8	HT-45+ME2			CTIN-784-8	CTES-784-8	
8	ST485 8-15P/S	1	18	**			*	*	
8	ST485 8-18P/S	1÷2	18÷14	**			*	*	
8	ST485 8-30P/S	4	-	HT-45+ME1			CTIN-784-12/1	CTES-784-8	
8	ST485 8-50P/S	10	-	HT-45+ME2			CTIN-784-8	CTES-784-8	
4	ST485 4P/S	22	4	HT-45+ME5			CTIN-784-4	CTES-784-4	
4	ST485 4-26P/S	3	-	**			*	*	
4	ST485 4-30P/S	4	-	**			*	*	
4	ST485 4-50P/S	10	-	HT-45+ME2			CTIN-784-8	CTES-784-4	
4	ST485 4-62P/S	16	-	HT-45+ME5			CTIN-784-4/1	CTES-784-4	
0	ST485 0P/S	53	0	HT-45+ME14			CTIN-784-0	CTES-784-0	
0	ST485 0-45P/S	9	8	HT-45+ME2			CTIN-784-0	CTES-784-0P/S	
0	ST485 0-78P/S	25	-	HT-45+ME5			CTIN-784-0/1	CTES-784-0	
0	ST485 0-90P/S	35	-	HT-45+ME14			CTIN-784-0/1	CTES-784-0	
0	ST485 0-107P/S	50	-	HT-45+ME14			CTIN-784-0	CTES-784-0	
4/0	ST 485 4/0-115P	53	0	HT-45+ME14				CTES-784-4/0	
4/0	ST 485 4/0-135P	67.4	2/0	**				CTES-784-4/0	
4/0	ST 485 4/0-144P	70	-	HT-120+ME24C				CTES-784-4/0	
4/0	ST 485 4/0-155P	95	-	HT-120+ME24C				CTES-784-4/0	
4/0	ST 485 4/0-165P	107	4/0	HT-120+ME30C				*	
4/0	ST 485 4/0-P	120	-	HT-120+ME29C				CTES-784-4/0	

Per le istruzioni per il cablaggio e la pinzatura contatti vedere gli appositi manuali. Raccomandiamo comunque di seguire le seguenti regole di massima:

- utilizzare sempre solo gli utensili suggeriti nel catalogo o nei manuali Van-System
- osservare le norme suggerite per la manutenzione e la taratura degli attrezzi
- servirsi sempre dell'ogiva quando si inseriscono i contatti femmina della misura 20 - 18 - 16 e 12.

Durante l'introduzione dei contatti nell'isolante, utilizzare come lubrificante alcool isopropilico o l'apposito liquido fornito dalla Van-System. NON USARE ALTRI GRASSI O OLI: oltre a danneggiare l'isolante potrebbero impedire la corretta funzionalità del connettore.

** A richiesta (consultare il nostro Ufficio Vendite)

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 the guide pin when installing the female contacts size 20 - 18 - 16 and 12.

When installing the contacts in the insert, use isopropyl alcohol as lubricant or the appropriate liquid supplied by Van-System. DO NOT USE ALTERNATIVE GREASES OR OILS which could damage the insert and affect the functionality of the connector.

** On request (please consult our Sales Office)



Note:

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KVBS



**Reverse bayonet connectors for
railway applications**

KVBS connector series derives from the RF CVBS one and it is based on Mil-DTL-5015 and VG95234 specs. The most important advantages are the simpler and faster cable assembly. The size 16 contact cavity has a wider internal diameter able to accept flame retardant cable.

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
- Size 16 contact cavity has a wider internal diameter

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 filed with all the contacts
- Contacts size 16 can accept 2.5mmq

Material and plating (*)

shells	Alluminium alloy – can be protected against corrosion with the following plating process: <ul style="list-style-type: none"> • Black epoxy varnish (not conductive) – RoHS compliant • CCF-Black passivation (conductive) – RoHS compliant
Insulators	Thermoplastic resin according to UL 94 V0, flame retardant according to EN 45545-2 HL3 R22/23
Front side grommet	flame retardant rubber according to EN 45545-2
contacts	copper alloy – silver or gold plated

(*)different materials and platings can be used on application request.

General characteristics

- working temperature • $-40^{\circ}\text{C} \div +100^{\circ}\text{C}$
- Insulation resistance • $> 5.000 \text{ M}\Omega$

Rated voltage and Insulating characteristics (*)

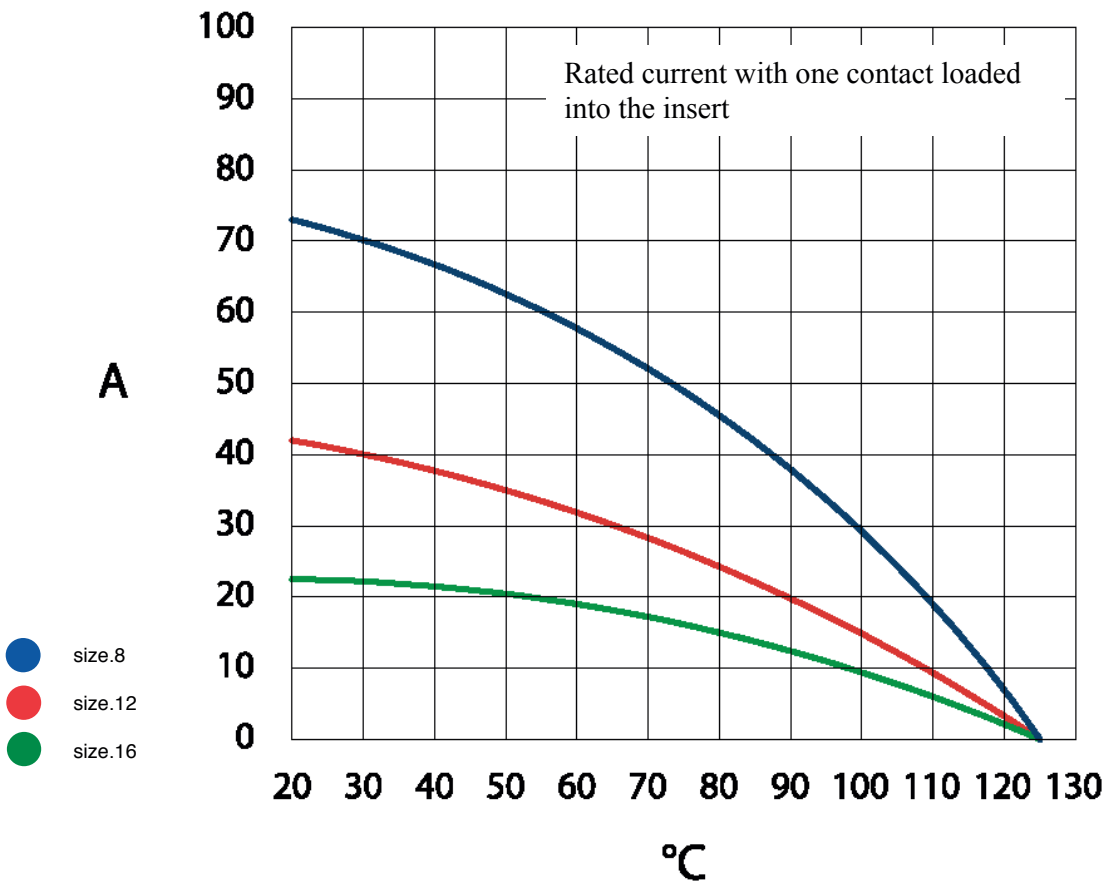
service rating	Operating voltage V _{dc}	Operating voltage V _{ac} RMS	Test voltage V _{ac}	Minimum flashover V _{ac} RMS Min
A	700	500	2.000	2.800
D	1.250	900	2.800	3.600

(*) Values at sea level

Insulation according to NFF 61030 (*)

Operating voltage V _{dc}	Operating voltage V _{ac} RMS	Test voltage V _{ac}	Creepage distance=Min insulation distance in air (*)
500	380	3.250	12 mm. Min

(*) Values are related to mated connectors



Part Number composition

KVBS 06 RA 28-21S W CD5 F7 S000

Series:

- KVBS standard
- KVBSG with fully rubber coated accessory

Connector type:

- 030 panel mount receptacle
- 06 inline plug
- 96 shielded inline plug
- 06GG inline plug with rubber coated coupling nut
- 96GG shielded inline plug with rubber coated coupling nut
- 08 90° plug
- 98 shielded 90° plug
- 08GG 90° plug with rubber coated coupling nut
- 98GG shielded 90° plug with rubber coated coupling nut

Connector class:

See pages 138 - 139

Shell size and arrangements:

See pages 136

Contact type

- P Pin contact
- S Socket contact

Insert polarization

- - No polarization
- X,Y,W,Z Polarized as specified in page 136

Contact plating

- - Silver plated
- CD5 gold plated
- LC connector supplied with loose contact

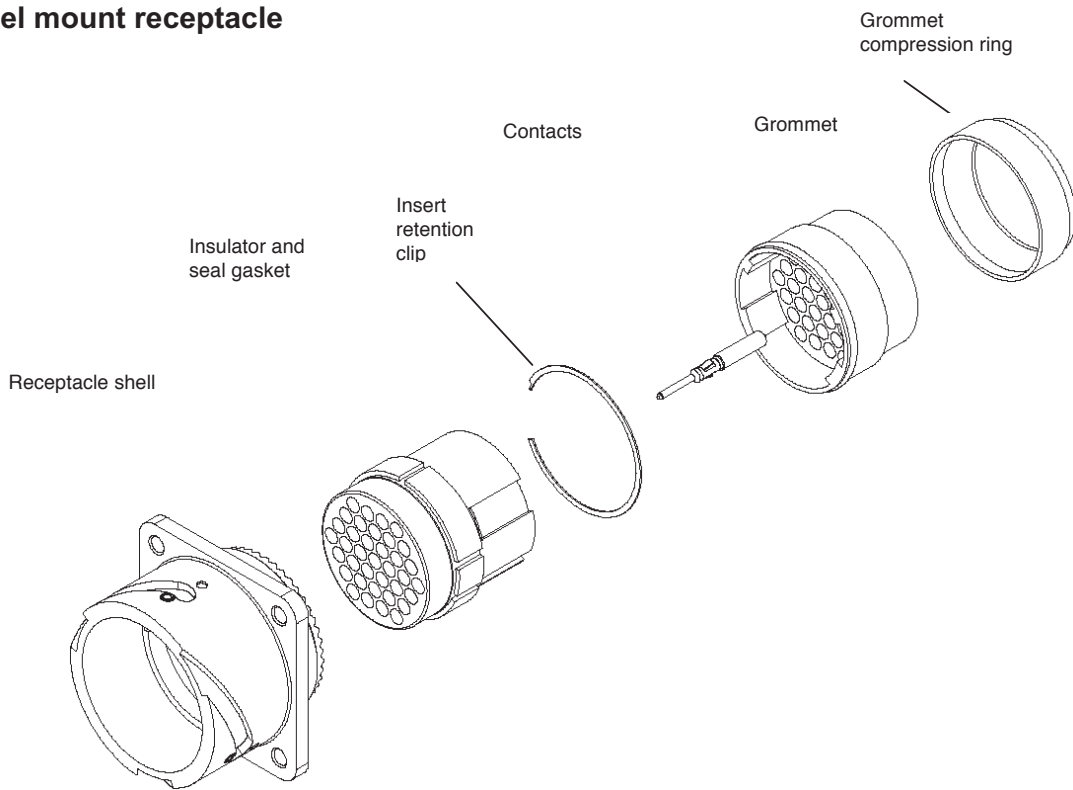
Shell plating

- F7: Black epoxy varnish
- F16: CCF-black passivation

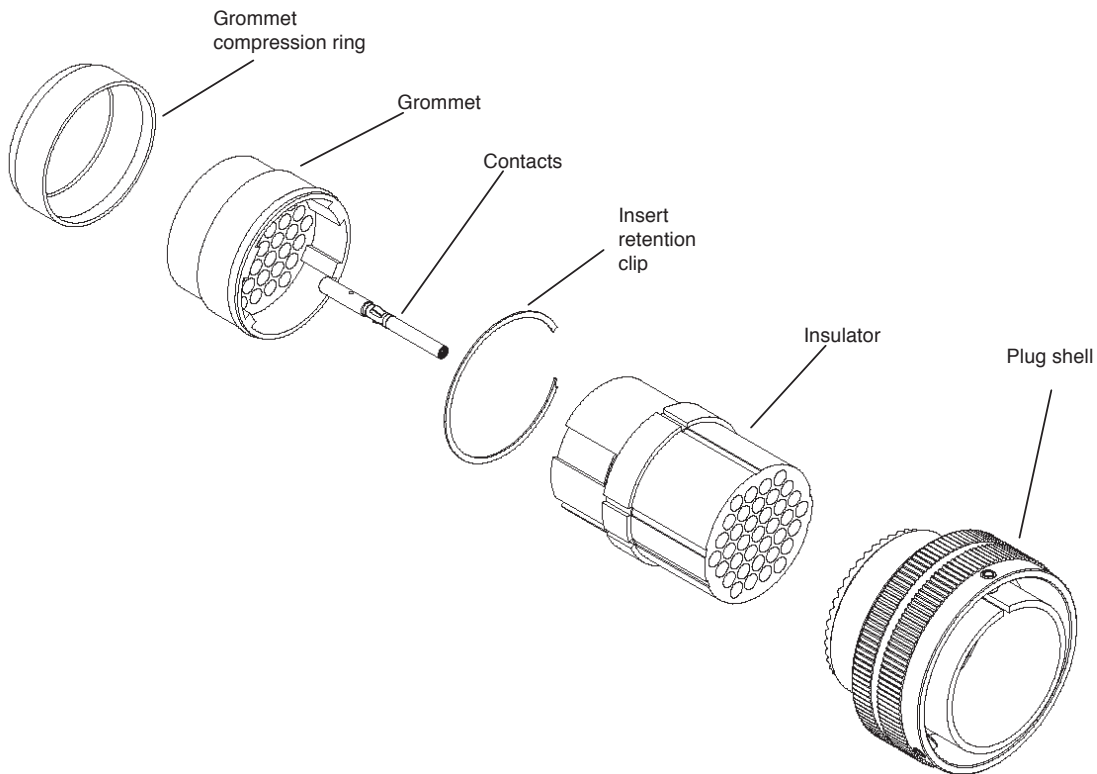
Modification code

- Contact the sales office for customization

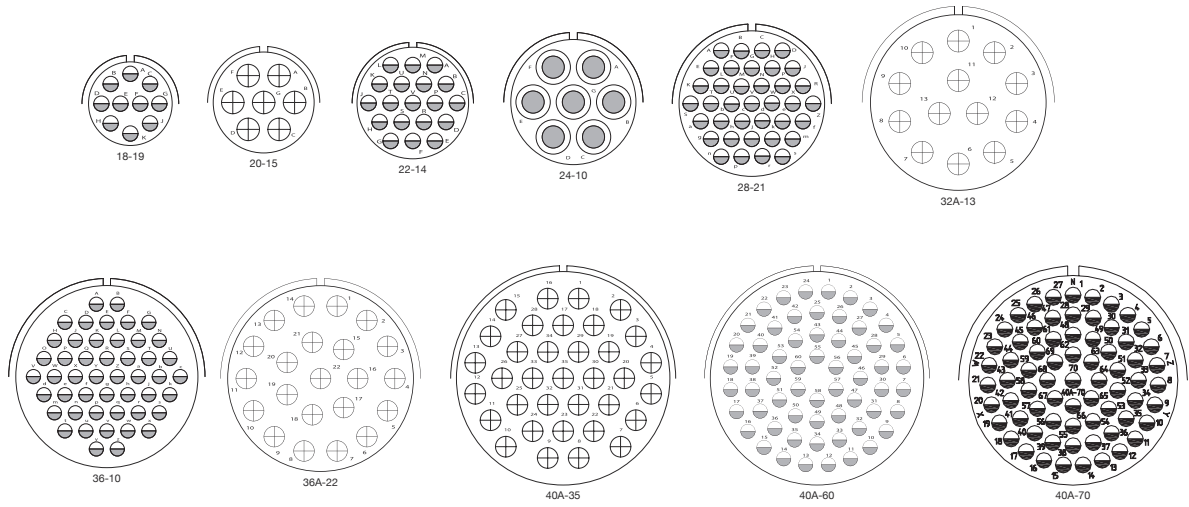
Panel mount receptacle



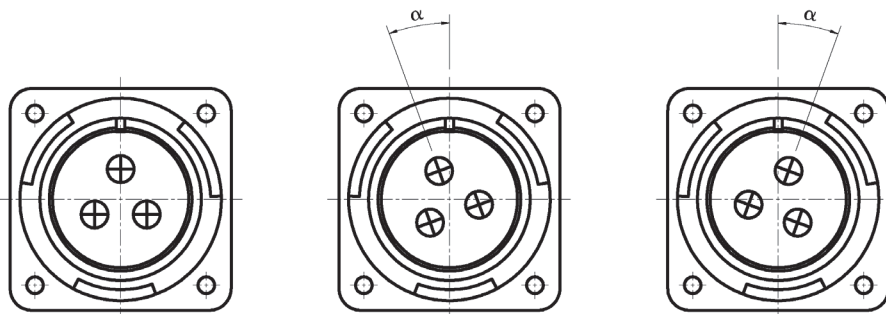
Plug



Arrangements



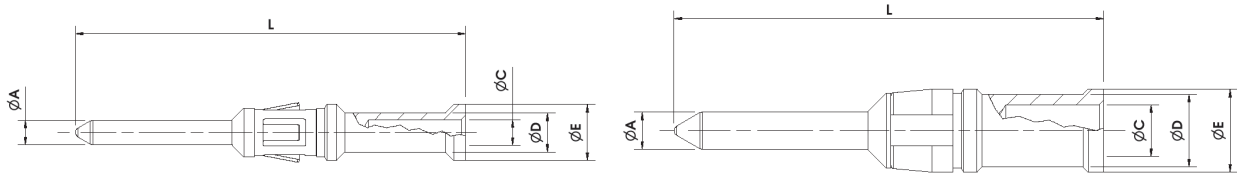
Arrangement	Number of contacts			Service Rating	Degree for alternate positions α			
	8	12	16		W	X	Y	Z
18-19			10	A	-	120	240	-
20-15		7		A	80	-	-	280
22-14			19	A	80	-	-	280
24-10	7			A	80	-	-	280
28-21			37	A	80	110	250	280
32A13		13		D	65	130	230	295
36-10			48	A	80	125	235	280
36A22		22		D	80	110	250	280
40A35		35		D	70	130	230	290
40A60			60	A	80	110	250	280
40A70			70	A	80	110	250	280



Front view female insert

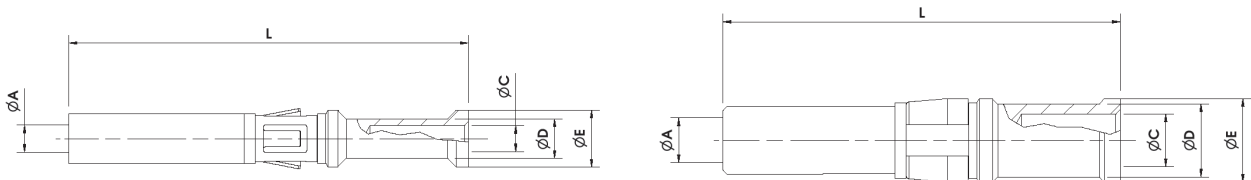
Front view male insert

Male crimp contact



Size	Silver plated Van-System P/N	Gold plated Van-System P/N	cable cross section		ØA +0 -0.1	ØE ±0.1	ØC ±0.1	ØD ±0.1	L ±0.2
			mmq	AWG					
16	KT485 16-13P*	KT485 16-13P CD5*	0.15÷0.6	26÷20	1.57	3.7	1.3	1.93	33.40
16	KT485 16-12P	KT485 16-12P CD5	0.5÷0.75		1.57	3.7	1.2	2.6	33.40
16	KT485 16-20P	KT485 16-20P CD5	1÷2	18÷14	1.57	3.7	2.0	2.9	33.40
16	KT485 16-26P	KT485 16-26P CD5	2.5÷3		1.57	3.7	2.5	3.8	33.40
12	KT485 12-12P	KT485 12-12P CD5	0.6	20	2.37	5.5	1.2	2.6	38.20
12	KT485 12-20P	KT485 12-20P CD5	1÷2	18÷14	2.37	5.5	2.0	3.8	38.20
12	KT485 12-26P*	KT485 12-26P CD5*	2.5÷3		2.37	5.5	2.5	3.8	38.20
12	KT485 12-30P	KT485 12-30P CD5	4	-	2.37	5.5	3.0	4.8	38.20
12	KT485 12-38P	KT485 12-38P CD5	6	-	2.37	5.5	3.6	4.8	38.20
8	KT485 8-15P	KT485 8-15P CD5	1	-	3.59	8.0	1.5	3.4	41.70
8	KT485 8-22P	KT485 8-22P CD5	2.5	-	3.59	8.0	2.2	3.8	41.70
8	KT485 8-30P*	KT485 8-30P CD5*	4	-	3.59	8.0	3.0	4.8	41.70
8	KT485 8-38P	KT485 8-38P CD5	6	-	3.59	8.0	3.6	4.8	41.70
8	KT485 8-50P*	KT485 8-50P CD5*	10	-	3.59	8.0	5.0	7.0	41.70

Female crimp contact



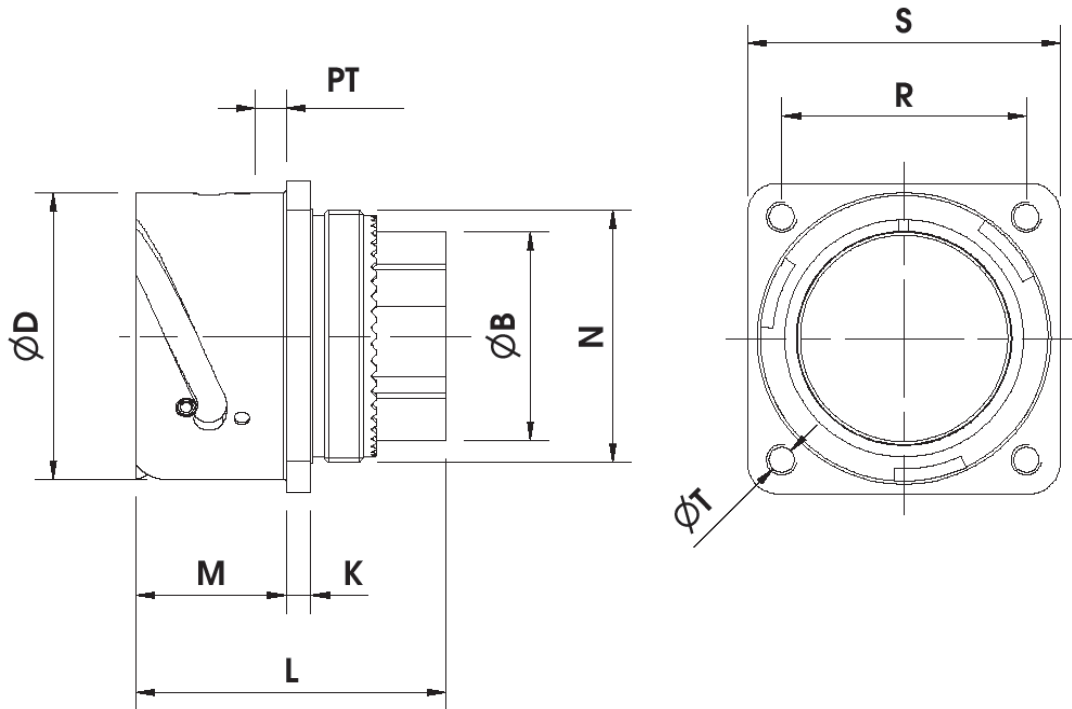
size	Silver plated Van-System P/N	Gold plated Van-System P/N	cable cross section		ØA +0 -0.1	ØE ±0.1	ØC ±0.1	ØD ±0.1	L ±0.2
			mmq	AWG					
16	KT485 16-13S*	KT485 16-13S CD5*	0.15÷0.6	26÷20	1.65	3.7	1.3	1.93	38.4
16	KT485 16-12S	KT485 16-12S CD5	0.5÷0.75		1.65	3.7	1.2	2.6	38.4
16	KT485 16-20S	KT485 16-20S CD5	1÷2	18÷14	1.65	3.7	2.0	2.9	38.4
16	KT485 16-26S	KT485 16-26S CD5	2.5÷3		1.65	3.7	2.5	3.8	38.4
12	KT485 12-12S	KT485 12-12S CD5	0.6	20	2.48	5.5	1.2	2.6	38.7
12	KT485 12-20S	KT485 12-20S CD5	1÷2	18÷14	2.48	5.5	2.0	3.8	38.7
12	KT485 12-26S*	KT485 12-26S CD5*	2.5÷3		2.48	5.5	2.5	3.8	38.7
12	KT485 12-30S	KT485 12-30S CD5	4	-	2.48	5.5	3.0	4.8	38.7
12	KT485 12-38S	KT485 12-38S CD5	6	-	2.48	5.5	3.6	4.8	38.7
8	KT485 8-15S	KT485 8-15S CD5	1	-	3.70	8.0	1.5	3.4	41.7
8	KT485 8-22S	KT485 8-22S CD5	2.5	-	3.70	8.0	2.2	3.8	41.7
8	KT485 8-30S*	KT485 8-30S CD5*	4	-	3.70	8.0	3.0	4.8	41.7
8	KT485 8-38S	KT485 8-38S CD5	6	-	3.70	8.0	3.6	4.8	41.7
8	KT485 8-50S*	KT485 8-50S CD5*	10	-	3.70	8.0	5.0	7.0	41.7

* on request

CONNECTOR SHELLS

03 Shell

Rear mounting receptacle connector unable to accept rear accessories.

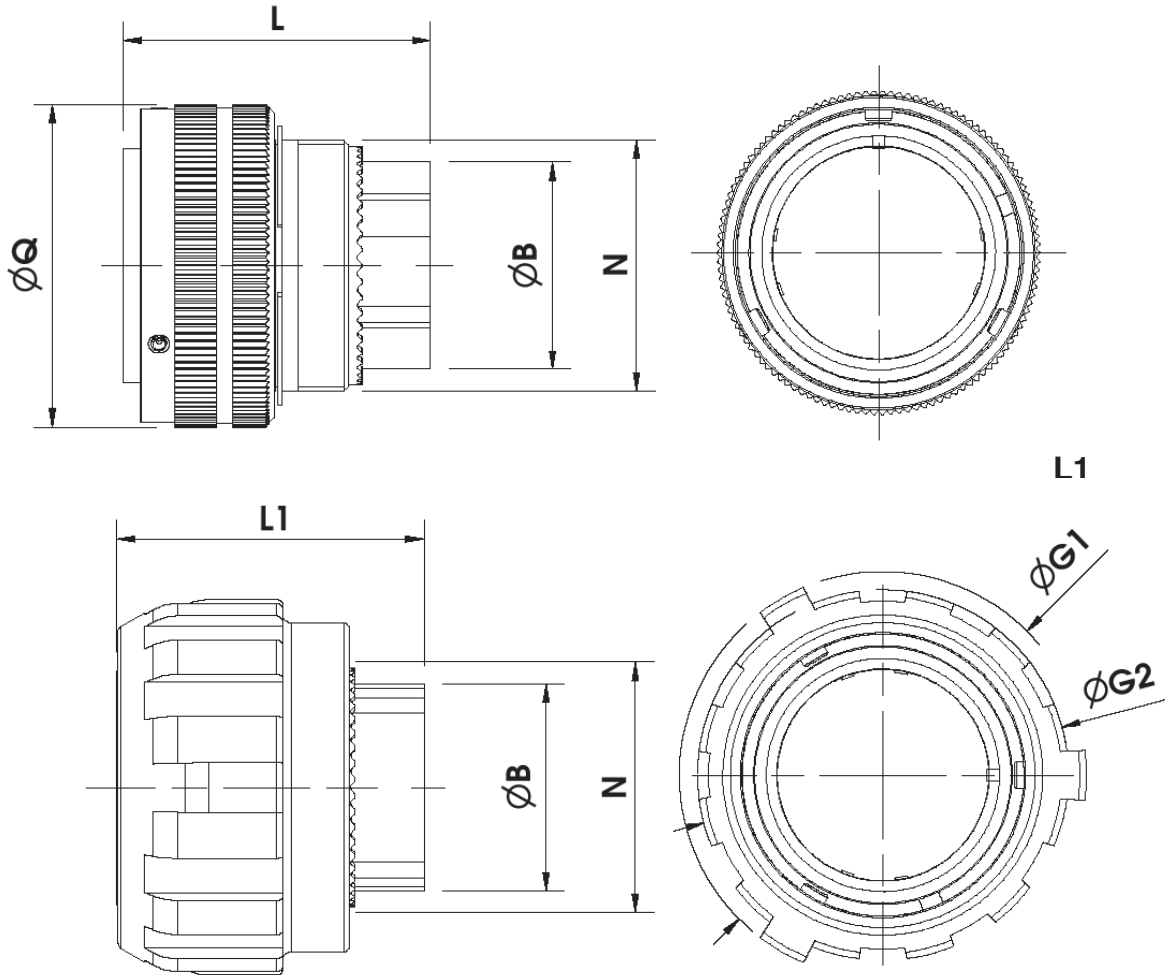


Shell Size	$\varnothing D$ +0 -0.15	M +0.4 -0	K ± 0.2	L ± 0.6	S ± 0.3	R ± 0.1	$\varnothing B$ ± 0.15	N Thread	T	PT max
18	30.8	23.05	4	50	34.9	27	18.7	1" - 20 UNEF - 2A	M4	7.5
20	34.2	23.05	4	50	38.1	29.4	20.5	1"1/8 - 18 UNEF - 2A	M4	7.5
22	37.4	23.05	4	50	41	31.8	24.6	1"1/4 - 18 UNEF - 2A	M4	7.5
24	40.9	23.05	4	50	44.5	34.9	27.7	1"3/8 - 18 UNEF - 2A	M4	7.5
28	46.7	24.05	4	50	50.8	39.7	32.55	1"5/8 - 18 UNEF - 2A	M5	8.2
32	53.4	24.05	4	50	57	44.5	39.4	1"7/8 - 16 UN - 2A	M5	7.5
36	59.6	24.05	4	50	63.5	49.2	44.1	2"1/16 - 16 UN - 2A	M5	7.5
40	65.5	24.05	4	50	69.8	55.6	50	2"5/16 - 16 UN - 2A	M5	7.5

CONNECTOR SHELLS
06 - 96 - 08 - 98 Shell

Plug connector able to accept rear accessories.
 It is available in the following versions for CVBS series:

- 06 with straight back shell
- 96 provided with grounding finger to guarantee shielding - with straight back shell
- 08 with 90° elbow
- 98 provided with grounding finger to guarantee shielding - with 90° elbow



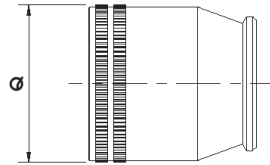
GG = rubber covered coupling nut

Shell size	$\varnothing Q$ Max	$\varnothing B$ ± 0.15	L ± 0.6	$L1$ ± 0.6	N Thread	$\varnothing G1$	$\varnothing G2$
18	37	18.7	50	55	1" - 20 UNEF - 2A	49	43.5
20	41	20.5	50	55	1"1/8 - 18 UNEF - 2A	51.5	46
22	43	24.6	50	56	1"1/4 - 18 UNEF - 2A	56	50.5
24	48	27.7	50	56	1"3/8 - 18 UNEF - 2A	60	54
28	53	32.55	50	56	1"5/8 - 18 UNEF - 2A	67	61
32	60	39.4	50	56	1"7/8 - 16 UN - 2A	76	69
36	66.2	44.1	50	57	2"1/16 - 16 UN - 2A	82	73.5
40	72.2	50	50	57	2"5/16 - 16 UN - 2A	88	80

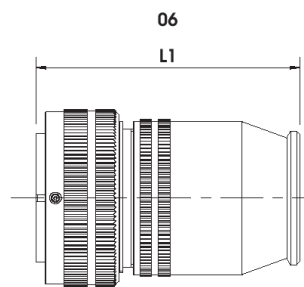
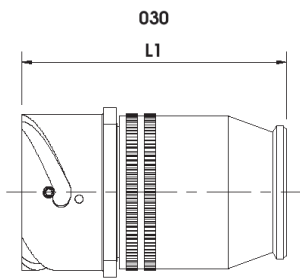
R class connectors

Supplied with:

- shorter backshell without thread for additional accessory
- grommet and compression ring

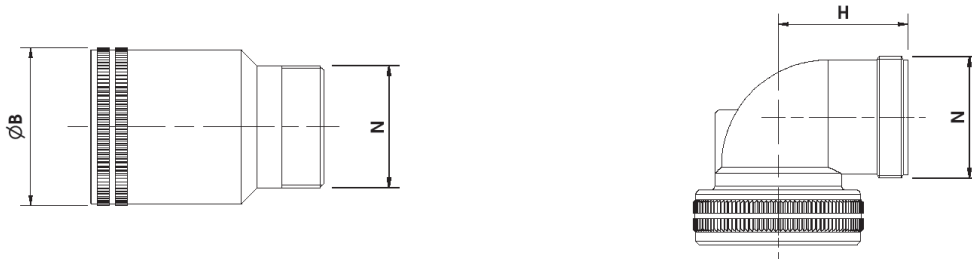


Shell size	$\varnothing Q$ Max	L1 Max 030	L1 Max 06/96
18	30	70	70
20	32	70	70
22	37	73	73
24	40	73	73
28	45	74	74
32	52	74	74
36	58	75	75
40	63.8	75	75

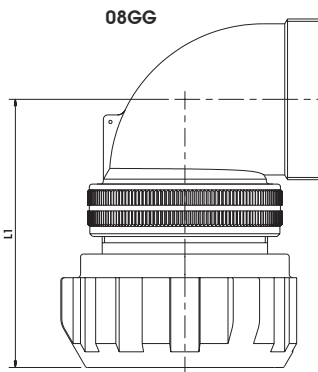
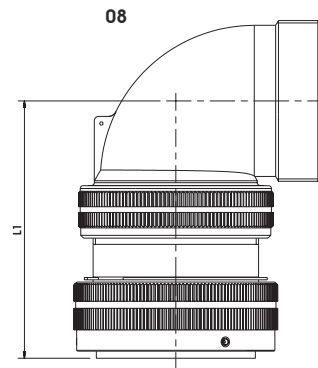
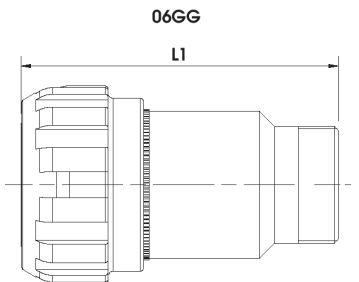
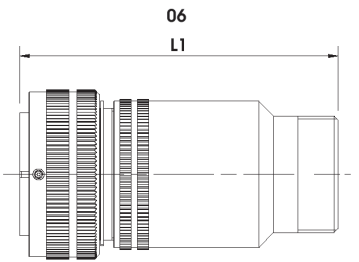
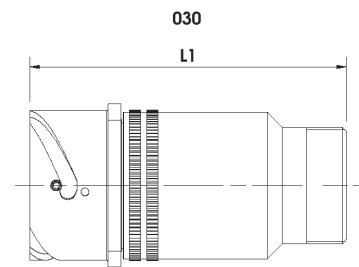


A / DA / RA Class connectors

- A: Backshell with external thread compatible with MS3057 A and C cable clamp
- DA: As A but with backshell internal sealing gasket
- RA: As DA but with grommet and compression ring

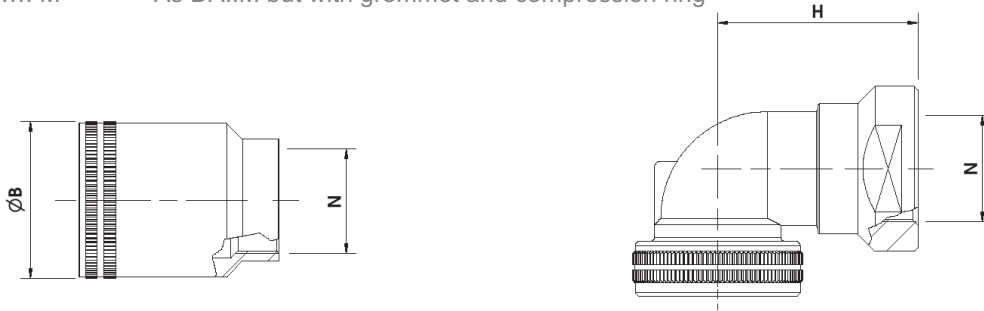


Shell size	ØB Max	H Max	N	L1 Max 030	L1 Max 06/96	L1 Max 06/96GG	L1 Max 08/98	L1 Max 08/98GG
18	30	31	1"-20 UNEF-2A	100	100	104	75	79
20	32	33	1"3/16-18 UNEF-2A	100	100	104	80	84
22	37	35	1"3/16-18 UNEF-2A	100	100	104	80	84
24	40	38	1"7/16-18 UNEF-2A	105	105	109	80	84
28	45	40	1"7/16-18 UNEF-2A	105	105	109	80	84
32	52	46	1"3/4-18 UNS-2A	115	115	119	85	89
36	58	49	2"-18 UNS-2A	125	125	129	90	94
40	63.8	53	2"1/4-16 UN-2A	125	125	129	95	99

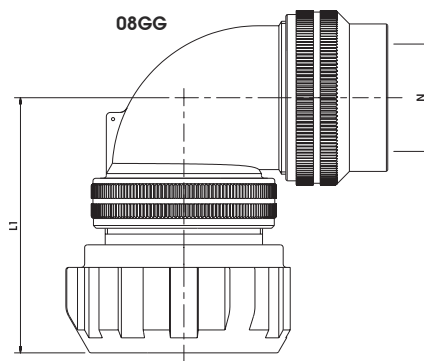
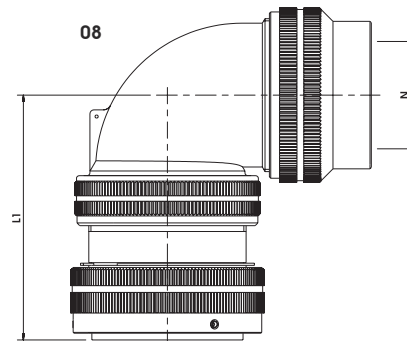
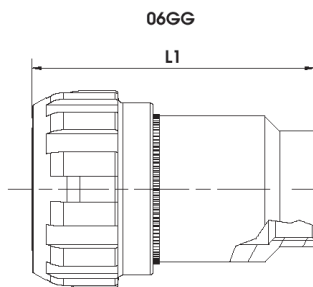
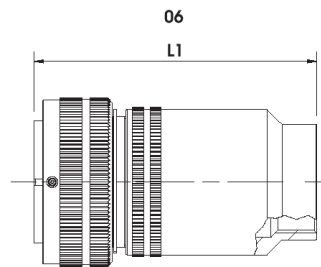
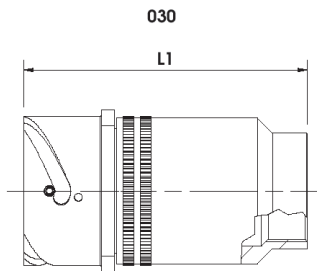


A...M / DA...M / RA...M class connectors

A ... M Backshell with internal metric backshell
 DA M As A..M but with backshell internal sealing gasket
 RA M As DA..M but with grommet and compression ring



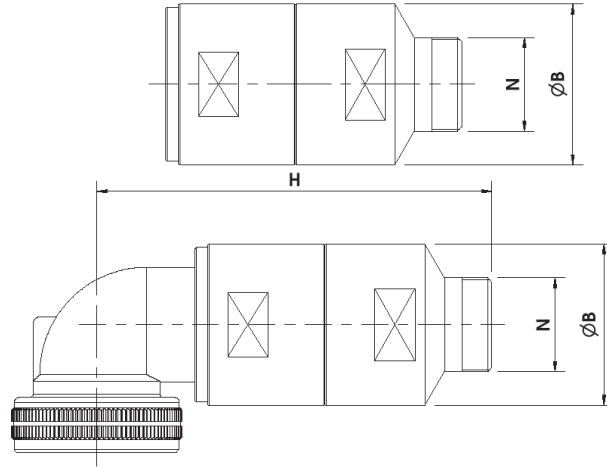
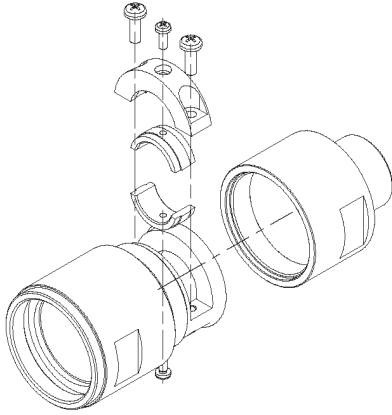
shell size	P/N extension	ØB Max	H Max	N	L1 Max 030	L1 Max 06/96	L1 Max 06/96GG	L1 Max 08/98	L1 Max 08/98GG
18	M20	30	60	M20 X 1.5	100	100	104	75	79
20	M25	32	62	M25 X 1.5	100	100	104	80	84
22	M25	37	65	M25 X 1.5	100	100	104	80	84
24	M32	40	69	M32 X 1.5	105	105	109	80	84
28	M32	45	72	M32 X 1.5	105	105	109	80	84
32	M40	52	78	M40 X 1.5	115	115	119	85	89
36	M40	58	81	M40 X 1.5	125	125	129	90	94
40	M48	63.8	85	M48 X 1.5	125	125	129	95	99



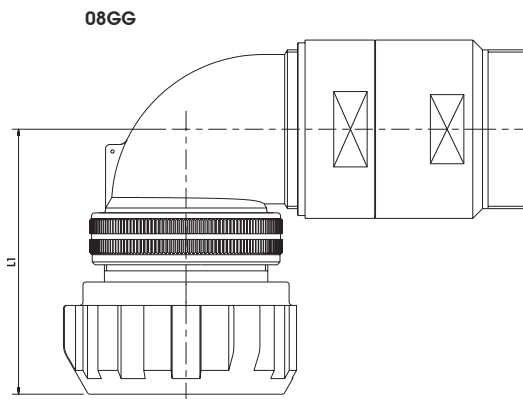
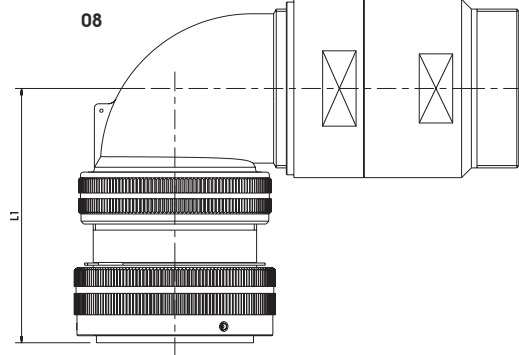
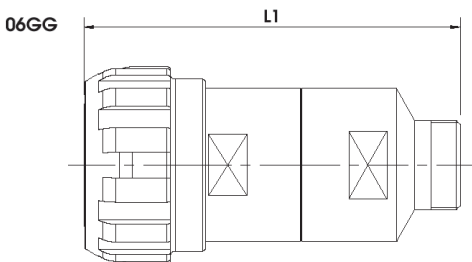
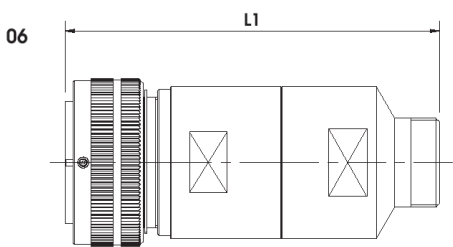
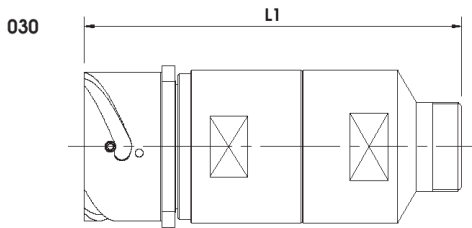
ST class connectors

Supplied with:

- individual wires strain relief
- sealing gaskets
- grommet and compression ring
optionally can be supplied with internal metric thread adapters.



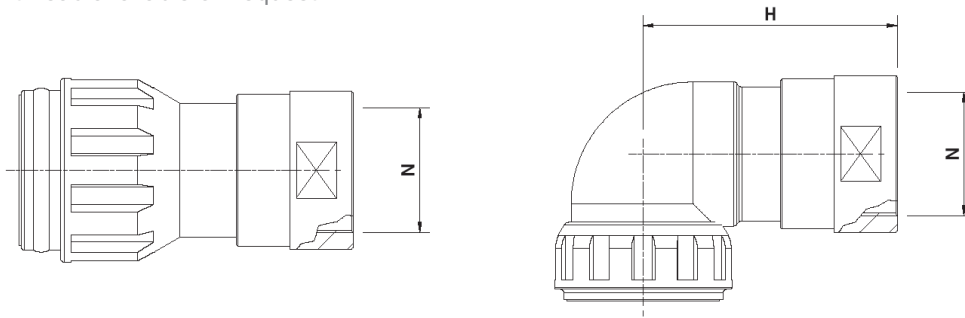
Shell size	ØB Max	H Max	N	L1 Max 030	L1 Max 06/96	L1 Max 06/96GG	L1 Max 08/98	L1 Max 08/98GG
18	30	102	1"-20 UNEF-2A	110	110	114	75	79
20	32	104	1"3/16-18 UNEF-2A	110	110	114	80	84
22	38	106	1"3/16-18 UNEF-2A	110	110	114	80	84
24	45	114	1"7/16-18 UNEF-2A	115	115	119	80	84
28	48	116	1"7/16-18 UNEF-2A	115	115	119	80	84
32	55	132	1"3/4-18 UNS-2A	125	125	129	85	89
36	58	145	2"-18 UNS-2A	135	135	139	90	94
40	65	149	2"1/4-16 UN-2A	135	135	139	95	99



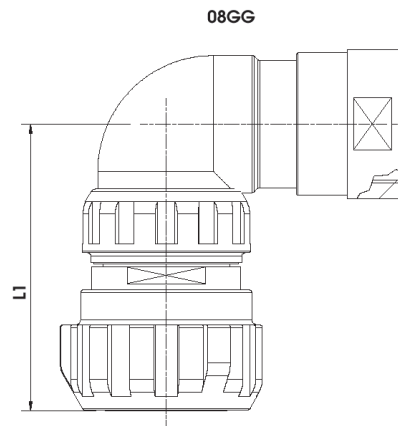
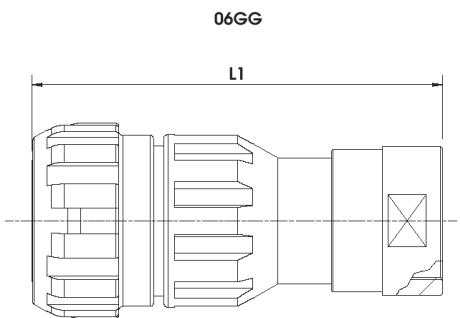
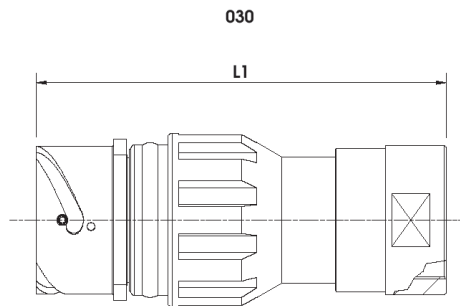
KVBSG Series DA...M / RA...M Classes

DA M Backshell with internal metric thread, including internal sealing gaskets
 RA M as DA..M but including grommet and compression ring

UNEF thread available on request.

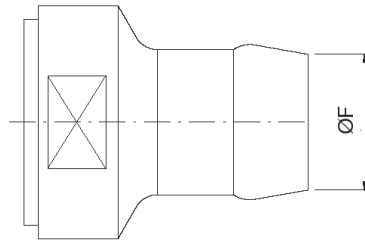
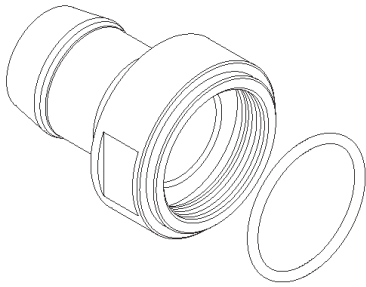


Backshell size	P/N extension	H Max	N	L1 Max 030	L1 Max 06/96	L1 Max 08/98
18	M20	65	M20 X 1.5	103	107	86
20	M25	65	M25 X 1.5	120	124	90
22	M25	65	M25 X 1.5	120	124	90
24	M32	65	M32 X 1.5	139	143	91
28	M32	65	M32 X 1.5	140	144	91
32	M40	65	M40 X 1.5	143	147	96
36	M40	70	M40 X 1.5	151	155	101
40	M48	75	M48 X 1.5	154	159	105



Adapter for UNI 4883 rubber tube conduit

Can be supplied in aluminium alloy (KVBS series) or insulating material (roe KVBSG series)



KVBS (*) P/N	KVBSG P/	Shell size	N	Ø interne diameter rubber conduit	Ø External diameter rubber conduit
PR1245 10 2722 F...	PR1246 10 2722	18	1"-20 UNEF-2A	22	27
PR1245 12 1712 F...	PR1246 12 1712	20-22	1"3/16-18 UNEF-2A	12	17
PR1245 12 2722 F...	PR1246 12 2722	20-22	1"3/16-18 UNEF-2A	22	27
PR1245 12 3328 F...	PR1246 12 3328	20-22	1"3/16-18 UNEF-2A	28	33
PR1245 16 2520 F...	PR1246 16 2520	24-28	1"7/16-18 UNEF-2A	20	25
PR1245 16 2722 F...	PR1246 16 2722	24-28	1"7/16-18 UNEF-2A	22	27
PR1245 16 3126 F...	PR1246 16 3126	24-28	1"7/16-18 UNEF-2A	26	31
PR1245 16 3328 F...	PR1246 16 3328	24-28	1"7/16-18 UNEF-2A	28	33
PR1245 16 3530 F...	PR1246 16 3530	24-28	1"7/16-18 UNEF-2A	30	35
PR1245 16 3833 F...	PR1246 16 3833	24-28	1"7/16-18 UNEF-2A	33	38
PR1245 16 5045 F...	PR1246 16 5045	24-28	1"7/16-18 UNEF-2A	45	50
PR1245 20 3126 F...	PR1246 20 3126	24-28	1"3/4-18 UNS-2A	26	31
PR1245 20 3328 F...	PR1246 20 3328	32	1"3/4-18 UNS-2A	28	33
PR1245 20 3833 F...	PR1246 20 3833	32	1"3/4-18 UNS-2A	33	38
PR1245 20 4035 F...	PR1246 20 4035	32	1"3/4-18 UNS-2A	35	40
PR1245 20 5045 F...	PR1246 20 5045	32	1"3/4-18 UNS-2A	45	50
PR1245 24 3530 F...	PR1246 24 3530	36	2"-18 UNS-2A	30	35
PR1245 24 3833 F...	PR1246 24 3833	36	2"-18 UNS-2A	33	38
PR1245 24 4035 F...	PR1246 24 4035	36	2"-18 UNS-2A	35	40
PR1245 24 5045 F...	PR1246 24 5045	36	2"-18 UNS-2A	45	50
PR1245 28 4136 F...	PR1246 28 4136	40	2"1/4-16 UN-2A	36	41
PR1245 284540 F...	PR1246 284540	40	2"1/4-16 UN-2°	40	45
PR1245 28 5045 F...	PR1246 28 5045	40	2"1/4-16 UN-2°	45	50
PR1245 28 5550 F...	PR1246 28 5550	40	2"1/4-16 UN-2°	50	55

(*) add plating code:

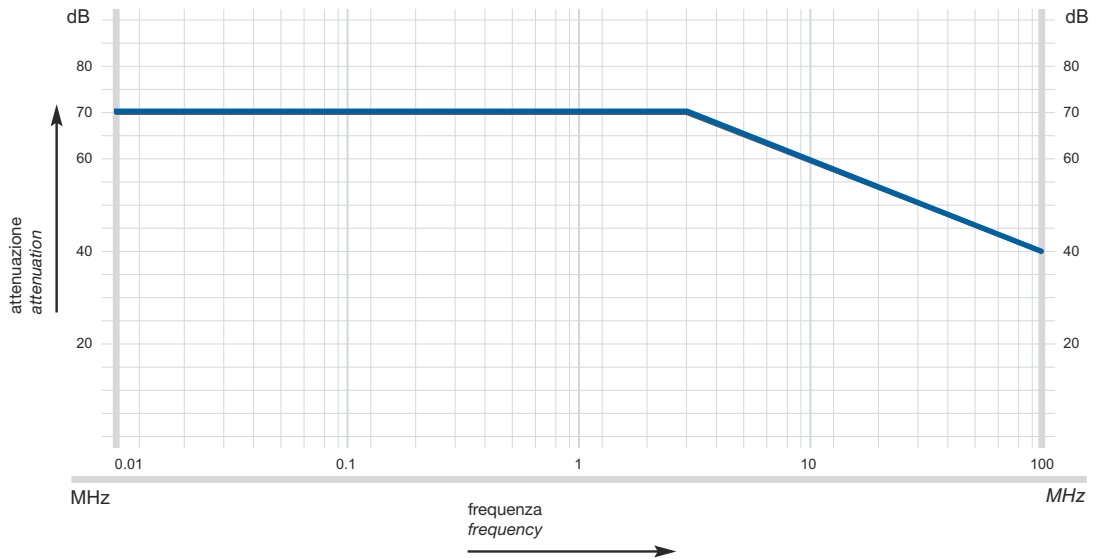
F7 black varnish

F16 black passivated zinc cobalt

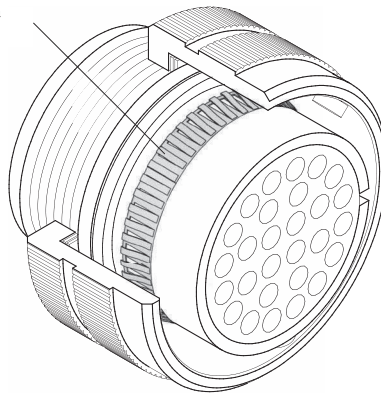
Shielding characteristics

When plug connectors with grounding finger (Fig. 1) type 96 - 98 - 96GG - 98GG - 965 are mated with receptacle connectors type 00 - 01 - 030 - 038 - 070 - 078 and both are provided with rear accessories for shielded cables, their shielding characteristics are according to VG95234 specs.

Shielding effectiveness data versus frequency

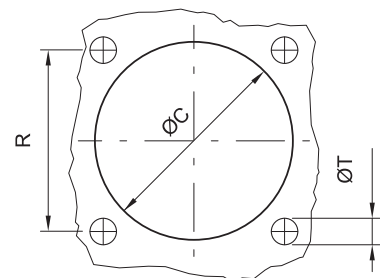


pettine di schermatura
grounding finger



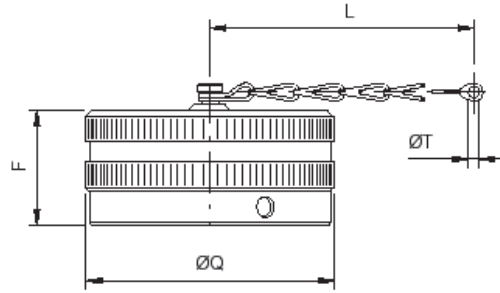
Receptacles mounting data

Shell size	Max panel thickness	R ±0.1	∅C ±0.2	∅T through holes	∅T threaded holes
18	7.5	27	31.7	3.4	4.5
20	7.5	29.4	35	3.4	4.5
22	7.5	31.8	38.3	3.4	4.5
24	7.5	34.9	41.8	3.9	4.5
28	8.2	39.7	47.6	3.9	5.5
32	7.5	44.5	54.3	4.5	5.5
36	7.5	49.2	60.5	4.5	5.5
40	7.5	55.6	66.4	4.5	5.5



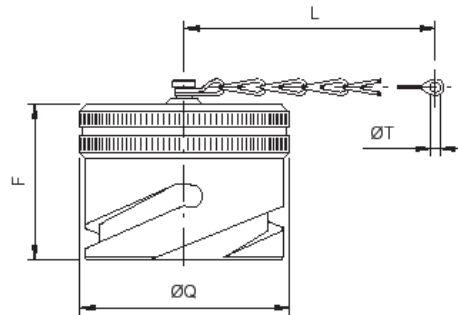
Receptacles chained caps

shell size	P/N	ØQ max.	F ±0.2	L min.	ØT ±0.2
18	CVB 043-18	38	21.7	123	4.3
20	CVB 043-20	40.5	21.7	123	4.3
22	CVB 043-22	44	21.7	123	4.3
24	CVB 043-24	47	21.7	123	4.3
28	CVB 043-28	53	21.7	206	4.3
32	CVB 043-32	60	21.7	206	4.3
36	CVB 043-36	66.2	21.7	206	4.3
40	CVB 043-40	72.4	21.7	206	4.3



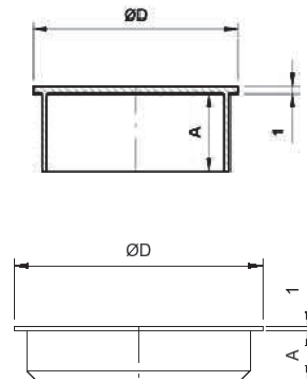
Plugs chained caps

Shell size	P/N	ØQ max.	F ±0.2	L min.	ØT ±0.2
18	CVB 042-18	33	34.5	123	4.3
20	CVB 042-20	36.5	34.5	138	4.3
22	CVB 042-22	39.7	34.5	138	4.3
24	CVB 042-24	43.2	34.5	138	4.3
28	CVB 042-28	48.9	34.5	206	4.3
32	CVB 042-32	55.5	34.5	206	4.3
36	CVB 042-36	61.6	34.5	206	4.3
40	CVB 042-40	67.6	34.5	206	4.3



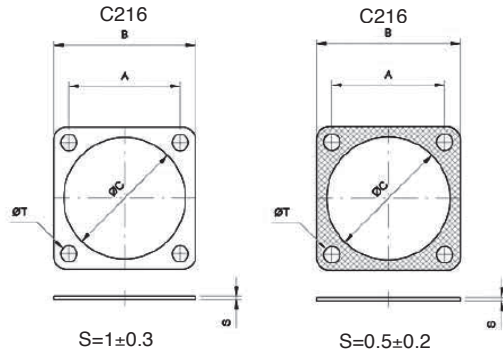
Plastic protection caps

Shell size	Receptacles P/N	Plugs P/N	A Max.	ØD ±0.3
18	412105	412135	17.5	36.3
20	412106	412136	17.5	39.8
22	412107	412137	17.5	42.9
24	412108	412138	17.5	46.3
28	412109	412139	17.5	52.3
32	412110	412140	17.5	59
36	412111	412141	17.5	65.2
40	412112	412142	17.5	71.2



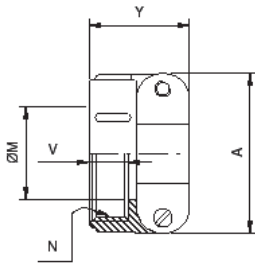
Receptacles sealing gaskets

Non conductive	P/N	Shell Size	A ±0.2	B -0 +0.4	ØC ±0.3	T ±0.3
	Conductive					
C216-18	C216R-18	18	27	35	28.6	5.1
C216-20	C216R-20	20	29.4	38.1	31.8	5.1
C216-22	C216R-22	22	31.8	41.2	34.9	5.1
C216-24	C216R-24	24	34.9	44.5	38.1	5.1
C216-28	C216R-28	28	39.7	50.8	44.5	5.1
C216-32	C216R-32	32	44.5	57	50.8	5.5
C216-36	C216R-36	36	49.2	63.5	55.6	5.5
C216-40	C216R-40	40	55.5	69.9	61.9	5.5

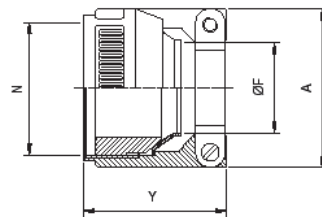


CVS 3057 Cable clamp

Type A not sealed



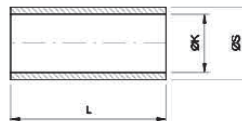
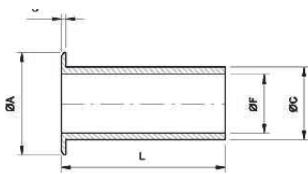
Type C sealed



A Type P/N	Y Max.	V ±0.2	A Max.	ØM Min.	C Type P/N	ØF cavo Max	Min	Y Max.	A ±0.2	N	compatible with shell size
MS 3057-10A F7 25	10.5	33	15.8	RF CVS 3057-10C	15.9	9.6				1.000-20UNEF 2B	18
MS 3057-12A F7 25	10.5	35	19	RF CVS 3057-12C	19	11.3	35.7	37.3	1.1875-18UNEF 2B	20 - 22	
MS 3057-16A F7 26	10.5	43	23.8	RF CVS 3057-16C	23.8	15.5	39	43.2	1.4375-18UNEF 2B	24 - 28	
MS 3057-20A F7 28	12.5	51	31.7	RF CVS 3057-20C	31.8	23.4	44.8	54	1.750-18UNEF 2B	32	
MS 3057-24A F7 29.4	14	58	35	RF CVS 3057-24C	35	25.4	52	57.8	2.000-18UNS 2B	36	
MS 3057-28A F7 42.8	14	65	41.2	RF CVS 3057-28C	41.3	30	52.3	63.4	2.250-16UN 2B	40	

RF CVS 3057-xxC F_
 F7 Epoxy black varnish
 F16 Black passivated zinc cobalt

Bushing



A type cable camp	ØA ±0.2	ØF (*)	ØC ±0.2	S ±0.2	L ±0.2	C Type cable clamp	ØS ±0.2	ØK ±0.2	L ±0.8	Compatible with cable camp size	compatible with shell size
RF CVS 3420-10	22	14.2	15.6	1.6	60.3	RF CVS 3420-10C	15.8	11.1	50.8	10	18
RF CVS 3420-12	27	15.8	18.8	1.6	57.1	RF CVS 3420-12C	18.9	13.7	50.8	12	20 - 22
RF CVS 3420-16	33.3	19	23.6	1.6	53.9	RF CVS 3420-16C	23.7	19	50.8	16	24 - 28
RF CVS 3420-20	40.5	23.8	31.5	1.6	50.8	RF CVS 3420-20C	31.6	23.8	50.8	20	32
RF CVS 3420-24	46.9	31.7	34.8	1.6	47.6	RF CVS 3420-24C	35	28.5	50.8	24	36
RF CVS 3420-28	52.9	34.9	41	1.6	44.4	RF CVS 3420-28C	41.1	31.8	50.8	28	40

Contacts crimp tools

contact size	Van-System P/N	cross section mm ²	cross section AWG	manual crimp tool	pneumatic crimp tool	locator	extracting tool
16	KT485 16-13P/S*	0.15÷0.6	26÷20	CRT-784/1	PCT784	LOC-784	KTES-784-16
16	KT485 16-12P/S	0.5÷0.75		CRT-784/1	PCT784	LOC-784	KTES-784-16
16	KT485 16-20P/S	1÷2	18÷14	CRT-784/1	PCT784	LOC-784	KTES-784-16
16	KT485 16-26P/S	2.5÷3		CRT-784/1	PCT784	LOC-784	KTES-784-16
12	KT485 12-12P/S	0.6	20	CRT-784/1	PCT784	LOC-784	KTES-784-12
12	KT485 12-20P/S	1÷2	18÷14	CRT-784/1	PCT784	LOC-784	KTES-784-12
12	KT485 12-26P/S*	2.5÷3		CRT-784/1	PCT784	LOC-784	KTES-784-12
12	KT485 12-30P/S	4	-	CRT-784/1	PCT784	LOC-784	KTES-784-12
12	KT485 12-38P/S	6	-	CRT-784/1	PCT784A	LOC-784	KTES-784-12
8	KT485 8-15P/S	1	-	CRT-784/1	PCT784/A	LOC-784	KTES-784-12
8	KT485 8-22P/S	2.5	-	CRT-784/1	-	**	**
8	KT485 8-30P/S*	4	-	CRT-784/1	-	**	KTES-784-8
8	KT485 8-38P/S	6	-	CRT-784/1	-	VS-61138-	KTES-784-8
8	KT485 8-50P/S*	10	-	HT-45+ME2	-	-	*

* on request

** consult our Sales Office

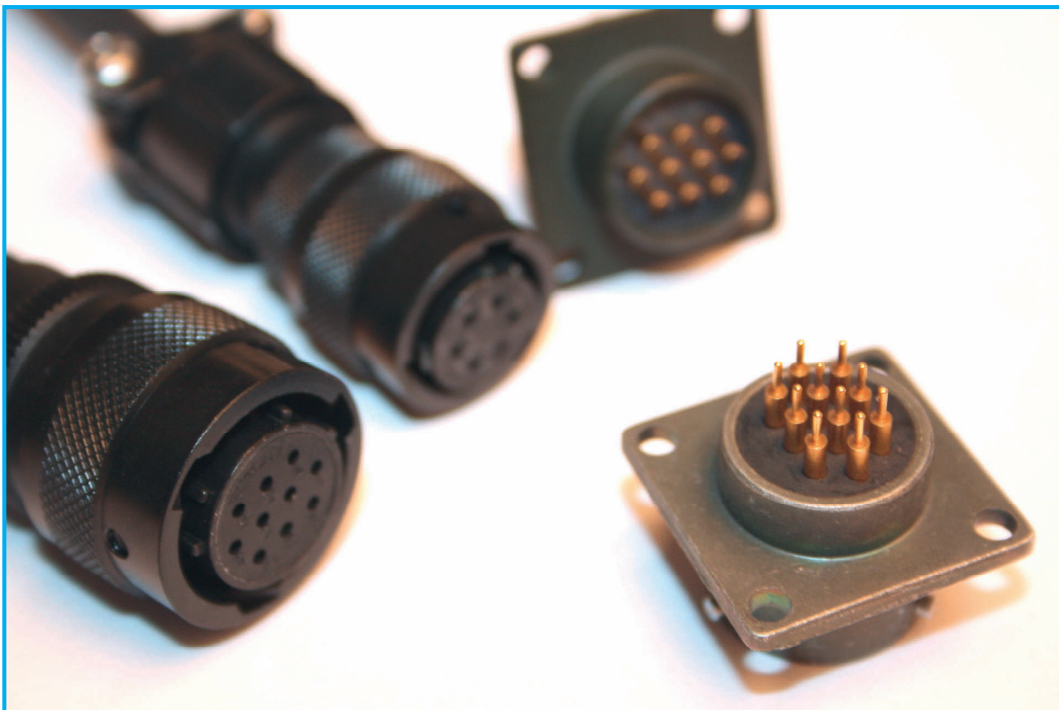


KTES-784-xx

CT

**Connettori elettrici
miniaturizzati
conformi alla norma
Mil-C-26482 serie 1**

***Electrical miniature
connectors comply
Mil-C-26482 series 1
specification***



La serie CT è realizzata in accordo con la norma Mil-C-26482 serie 1 e risponde ai suoi requisiti per quanto riguarda i materiali e le prestazioni. E' pertanto accoppiabile con i connettori di altri costruttori rispondenti alle stesse norme.

Può inoltre essere fornita con caratteristiche e accessori che ne aumentano le possibilità di impiego in settori quali:

- apparecchiature elettroniche industriali
- veicoli
- sensori
- motori brushless
- telecomunicazioni

L'utilizzo di materiali specifici e il sistema di accoppiamento rendono questi connettori resistenti a vibrazioni e urti e ne estendono l'utilizzo anche in applicazioni ferroviarie a bordo di veicoli rotabili.

CT series has been designed according to Mil-C-26482 series 1 and complies its requirements as far as materials and features are concerned.

Therefore it is fully inter-mateable with all connectors of the same norm produced by other manufacturers..

Its characteristics and accessories can extend the application performance in many fields like:

- industrial electronic devices
- vehicles
- sensors
- brushless motors
- telecommunications

The use of specific materials and the coupling system make these connectors highly resistant to vibrations and shocks and extend their application range to railways applications.

Caratteristiche Generali / *General characteristics*

- Sistema di accoppiamento a baionetta con tre punti di innesto
- Temperatura di lavoro: -55 ÷ +125 °C (in relazione al trattamento superficiale)
- Contatti: a saldare, a pinzare e PCB
- Bayonet – 3 ramps coupling system
- Temperature range: -55 ÷ +125 °C (according to shell finish)
- Crimp, solder & PCB contacts

Materiali e trattamenti / *Materials and finishes (*)*

Gusci:

I gusci di queste serie sono realizzati in lega di alluminio e vengono protetti dalla corrosione con i seguenti trattamenti:

- **verniciatura epossiretanica di colore nero(*) (non conduttivo)** - Conforme alla direttiva RoHS(*)
- **trattamento conduttivo CCF-Black(*) esente da cadmio** - Conforme alla direttiva RoHS(*)
- **trattamento conduttivo CCF-Green** esente da cadmio

(*) Restriction of Hazardous Substances – Direttiva del parlamento Europeo n° 2014/35/EC del 26 febbraio 2014

Altri materiali e trattamenti sono disponibili e possono essere utilizzati in funzione delle esigenze.

Isolanti:

- Miscela a base cloroprene
- **(RF) miscela resistente al fuoco e priva di alogeni** per impiego in situazioni ove è richiesta la non propagazione della fiamma. Certificata a norme EN 45545-2.

Contatti:

Lega di rame – Doratura a spessore

(*)Altri materiali e trattamenti sono disponibili e possono essere utilizzati in funzione delle esigenze / *Other materials and finishes are available complying specific requirements.*

Shells:

Shells are manufactured in aluminum alloy and can be protected against corrosion by the following finishes:

- **epoxy varnish(*) - colour black** (not conductive) - complies RoHS directives(*)
- **CCF-Black(*) passivation cadmiun free (conductive)** - complies RoHS directives(*)
- **CCF-Green passivation cadmiun free (conductive)**

(*) Restriction of Hazardous Substances Directives of the European Parliament issued n° 2014/35/EC on 26th February 2014

Alternative materials and finishes are available to suit specific requirements.

Insulating inserts:

- Chloroprene rubber compound
- **(RF) fire resistant and halogen free compound** employed when no flame propagation. Qualified according to EN 45545-2.

Contacts:

Copper alloy – Gold plating

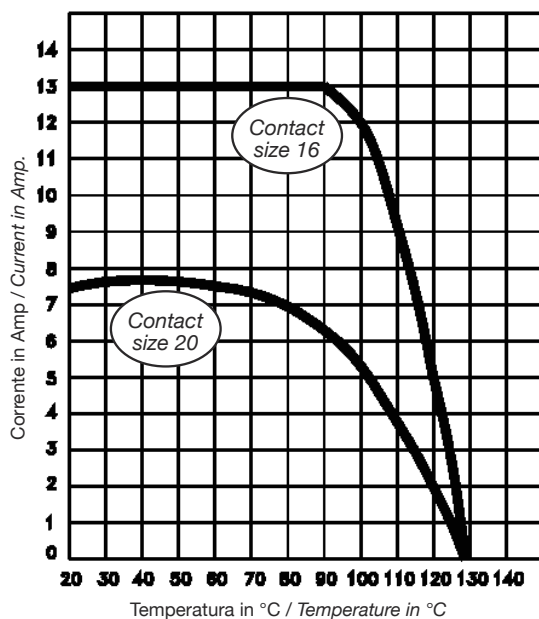
Isolamento / Service rating

		Classe I <i>I Class</i>	Classe II <i>II Class</i>
Tensione di lavoro Vca	<i>Rated voltage Vac</i>	600	1.000
Tensione di lavoro Vcc	<i>Rated voltage Vdc</i>	700	1.250
Tensione di prova Vca	<i>Test voltage Vac</i>	1.500	2.300

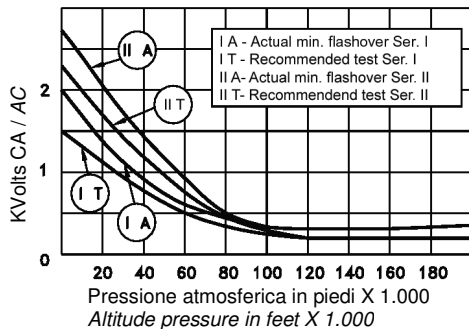
Caduta di tensione / Voltage drop

		Misura contatto <i>Contact size</i>	
		20	16
Resistenza di contatto	<i>Contact resistance</i>	11 mΩ max.	11 mΩ max.
Corrente di prova	<i>Test current</i>	7.5 A	13.0 A
Caduta di tensione	<i>Voltage drop</i>	< 55 mV	< 50 mV

**Corrente di lavoro al variare della temperatura
*Rated current versus temperature***



**Tensione di scarica al variare della altitudine
*Rated voltage versus altitude***



Composizione Sigla / Part number Explanation

RF CT 06 RA 14-19S W CR F7 S000

Serie / Series :

- CT serie standard / *standard series*
- RF CT serie con isolante per applicazioni ferroviarie / *railways applications series*

Tipo connettore / Shell type :

- 02 Connettore da pannello / *Front panel receptacle*
- 00 Connettore da paratia / *Wall receptacle*
- 01 Connettore per giunzioni volanti / *Cable connecting plug*
- 06 Connettore volante diritto / *straight plug*
- 96 Connettore volante diritto con schermo / *shielded straight plug*
- 08 connettore volante 90° / *90° plug*
- 98 Connettore volante 90° con schermo / *90° shielded plug*
- 07 Connettore da quadro con fissaggio a dado / *Jam nut connector*

Classe connettore / Connector class :

vedere pag. / *see page* 161 - 164

Misura guscio e disposizione:

Shell size & insert arrangement :

vedere pag. / *see page* 156 - 157

Tipo contatti / Contacts gender :

- P contatti maschio / *male contacts*
- S contatti femmina / *female contacts*

Rotazione inserto / Insert rotation :

- - Nessuna rotazione / *No rotation*
- X,Y,W,Z Rotazione vedere pag.158 / *Rotation - see page 158*

Terminale contatti / Contacts type :

- - A saldare / *Solder termination*
- CR A pinzare / *Crimp termination*
- LC Connettore fornito senza contatti / *without contacts*

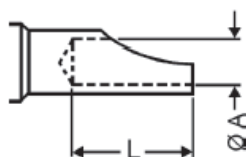
Trattamento gusci / Shell finish :

- F4: CCF-green passivation
- F5: Nichelatura chimica / *Electroless nichel*
- F7: Verniciatura nera / *Black epoxy varnish*
- F16: CCF-black passivation

Codice modifica / Modification code :

Consultare l'Ufficio Vendite per richieste di personalizzazione
Please consult our Sales Office for customized versions

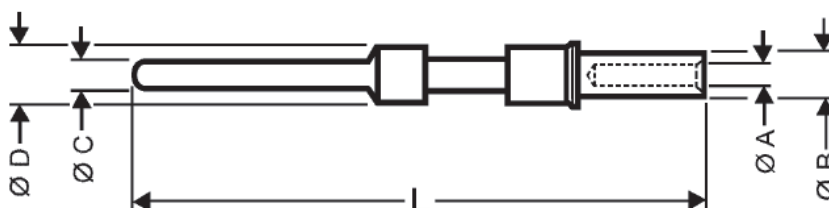
Dimensioni contatti a saldare / Solder contacts dimensions



Misura contatto Contact size	Ø A	L	AWG max	Sezione massima cavo mmq. Max. wire section sq.mm.
20	1.19	3.2	20	0.6
16	1.98	4.8	16	1.5

Dimensioni in mm. / Dimensions in mm.

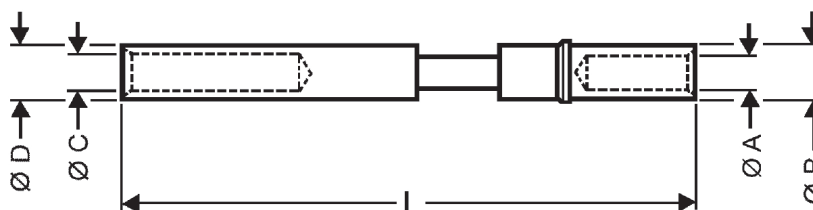
Dimensioni contatti maschio a pinzare – Utensili di pinzatura Crimp male contacts dimensions – Crimping tools



Cod. P/N	Mis. Size	mmq. sq.mm	Ø A +0.03/-0	Ø B ±0.02	Ø C ±0.02	Ø D ±0.1	L ±0.1	Utensile di pinzatura manuale Manual crimping tool	Locatore Locator
CT485-20S P	20S	0.6	1.30	1.93	1.00	2.00	20.40	M22520/1-01	M22520/1-02
CT485-20 P	20	0.6	1.30	1.93	1.00	2.00	24.40	M22520/1-01	M22520/1-02
CT485-16S P	16S	1.5	1.72	2.60	1.57	3.04	22.30	M22520/1-01	M22520/1-02
CT485-16 P	16	1.5	1.72	2.60	1.57	3.04	25.80	M22520/1-01	M22520/1-02

Dimensioni in mm. / Dimensions in mm.

Dimensioni contatti femmina a pinzare – Utensili di pinzatura Crimp female contacts dimensions – Crimping tools



Cod. P/N	Mis. Size	mmq. sq.mm	Ø A +0.03/-0	Ø B ±0.02	Ø C ±0.02	Ø D ±0.1	L ±0.1	Utensile di pinzatura manuale Manual crimping tool	Locatore Locator
CT485-20S S	20S	0.6	1.30	1.93	1.08	2.00	20.40	M22520/1-01	M22520/1-02
CT485-20 S	20	0.6	1.30	1.93	1.08	2.00	24.40	M22520/1-01	M22520/1-02
CT485-16S S	16S	1.5	1.72	2.60	1.65	3.18	22.30	M22520/1-01	M22520/1-02
CT485-16 S	16	1.5	1.72	2.60	1.65	3.18	25.80	M22520/1-01	M22520/1-02

Dimensioni in mm. / Dimensions in mm.

Disposizioni contatti (vista frontale inserto contatti maschio)
Contact arrangements (front view male contacts insert)

2 contatti
2 contacts

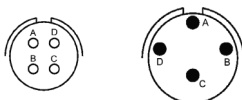


3 contatti
3 contacts

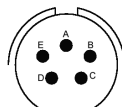


Disposizione Arrangement	8-2	10-2	8-3	8-3A	8-33	12-3
N° / Mis.contatti Contacts Nr / Size	2/20	2/16	3/20	3/20	3/20	3/16
Classe isolamento Service rating	I	II	I	I	I	II

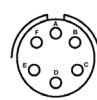
4 contatti
4 contacts



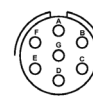
5 contatti
5 contacts



6 contatti
6 contacts

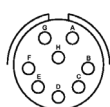


7 contatti
7 contacts

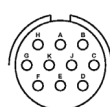


Disposizione Arrangement	8-4	12-4	14-5	10-6	10-7
N° / Mis.contatti Contacts Nr / Size	4/20	4/16	5/16	6/20	7/20
Classe isolamento Service rating	I	I	II	I	I

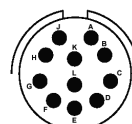
8 contatti
8 contacts



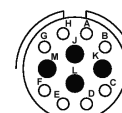
10 contatti
10 contacts



11 contatti
11 contacts



12 contatti
12 contacts

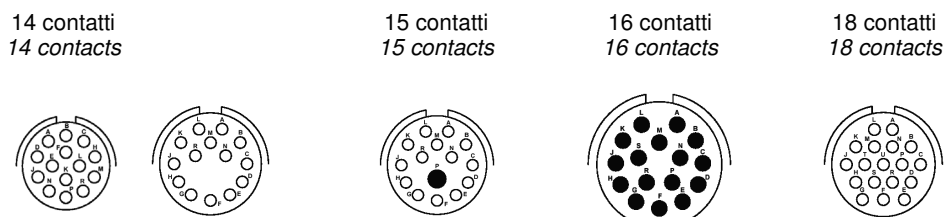


Disposizione Arrangement	12-8	16-8	12-10	18-11	14-12
N° / Mis.contatti Contacts Nr / Size	8/20	8/16	10/20	11/16	4/16 - 8/20
Classe isolamento Service rating	I	II	I	II	I

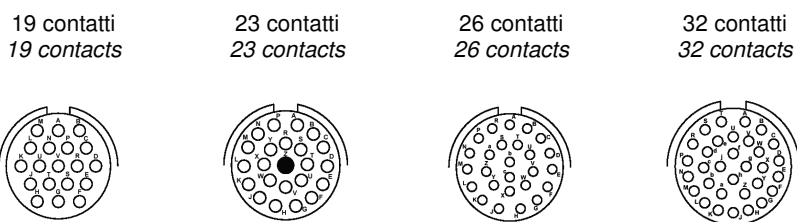
(#) Consultare l'Ufficio Vendite / Consult our Sales Office

Legenda contatti
Contacts legend

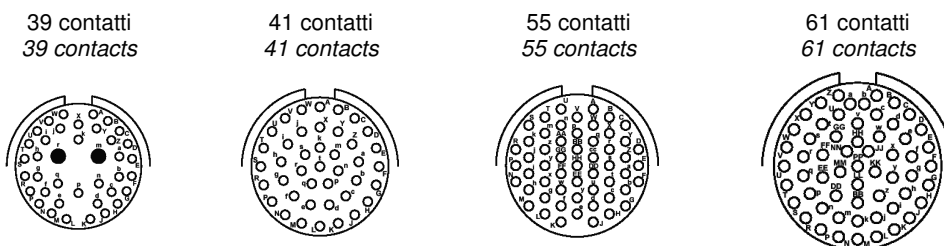
Mis. Size 20 ○ 16 ●



Disposizione <i>Arrangement</i>	12-14	14-14	14-15	20-16 (#)	14-18 (#)
N° / Mis.contatti Contacts Nr / Size	14/20	14/20	1/16-14/20	16/16	18/20
Classe isolamento <i>Service rating</i>	I	I	I	II	I



Disposizione <i>Arrangement</i>	14-19	16-23	16-26	18-32
N° / Mis.contatti Contacts Nr / Size	19/20	1/16-22/20	26/20	32/20
Classe isolamento <i>Service rating</i>	I	I	I	I



Disposizione <i>Arrangement</i>	20-39 (#)	20-41 (#)	22-55 (#)	24-61 (#)
N° / Mis.contatti Contacts Nr / Size	2/16-37/20	41/20	55/20	61/20
Classe isolamento <i>Service rating</i>	I	I	I	I

(#) Consultare l'Ufficio Vendite / Consult our Sales Office

Legenda contatti
Contacts legend
Mis. Size 20 ○ 16 ●

Rotazione isolanti Alternate Insert positions

Disposizione isolante <i>Insert arrangement</i>	Rotazione angolo b in gradi / <i>Angle b rotation in degrees</i>			
	W	X	Y	Z
8-2	58	122	-	-
8-3	60	210	-	-
8-3A	60	-	-	-
8-33	90	-	-	-
8-4	45	-	-	-
10-2	-	-	-	-
10-6	90	-	-	-
10-7	90	-	-	-
12-3	-	-	180	-
12-4	38	-	-	-
12-8	90	112	203	292
12-10	60	155	270	295
12-14	60	155	270	295
14-5	40	92	184	273
14-12	43	90	-	-
14-14	17	110	155	234
14-15	17	110	155	234
14-18	15	90	180	270
14-19	30	165	315	-
16-8	54	152	180	331
16-23	158	270	-	-
16-26	60	-	275	338
18-11	62	119	241	340
18-32	85	138	222	265
20-16	238	318	333	347
20-39	63	144	252	333
20-41	45	126	225	-
22-55	30	142	226	314
22-36	72	144	226	288
24-61	90	180	270	324

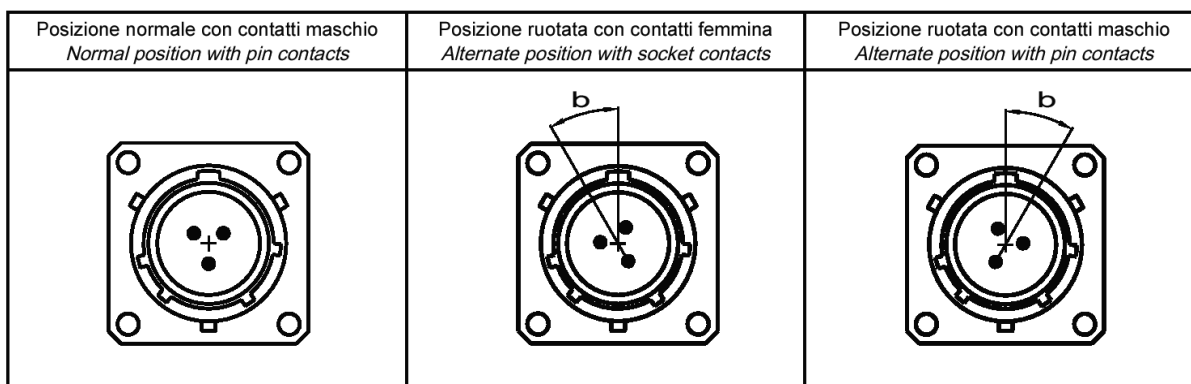


Tabella classi con accessori posteriori standard
Table for standard rear accessories by class

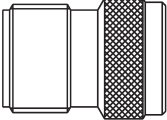
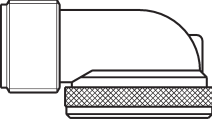
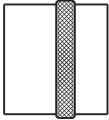
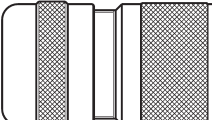
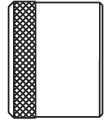
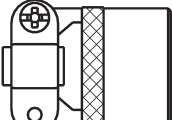
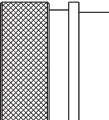
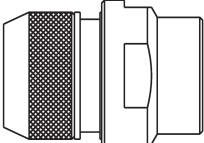
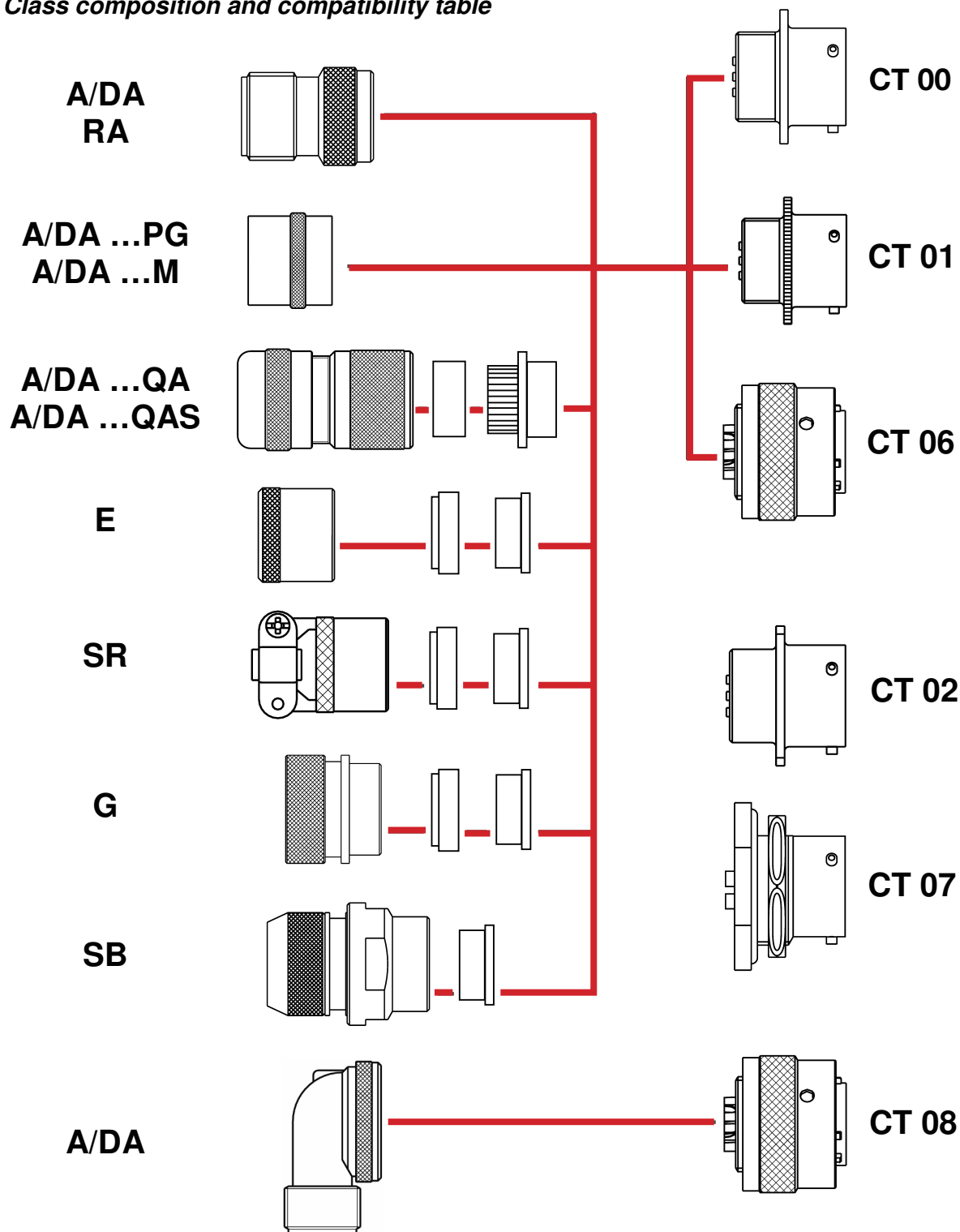
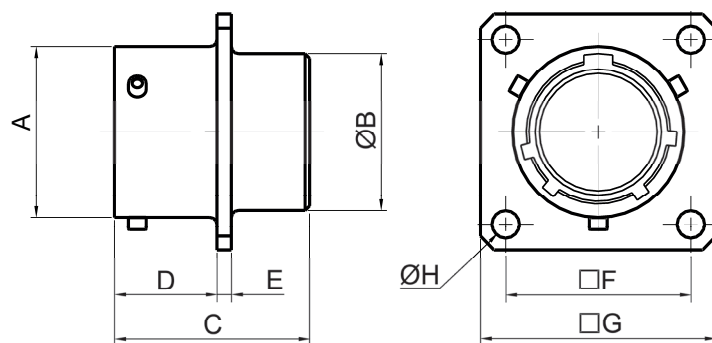
	Classe Class	Descrizione	Description
	A	Per impiego generale per uscita cavo diritta e a 90°. Utilizzabile con serracavo MS 3057 tipo A	<i>General duty connector. Straight and 90° cable exit. Usable with MS 3057 type A cable clamp</i>
	DA	Come classe A. Fornito con guarnizione interna per tenuta stagna. Utilizzabile con serracavo MS 3057 tipo A o tipo C	<i>Like class A. It is supplied with internal gasket for water resistance. Usable with MS 3057 type A & type C cable clamp</i>
	RA	Come classe A. Fornito con guarnizione interna per tenuta stagna e zoccolo per isolare singolarmente i contatti sul punto di connessione ai contatti. Utilizzabile con serracavo MS 3057 tipo A o tipo C	<i>Like class A - supplied with internal gasket for water resistance and grommet for single wire insulation. Usable with MS 3057 type A & type C cable clamp</i>
	A/DA ...PG	Come A, e DA ma con custodia posteriore con filetto PG per utilizzo con pressatavi plastici/metallici	<i>Like A, DA and RA but with PG adapter for use with plastic/metal cable glands</i>
	A/DA ...M	Come A e DA ma con custodia posteriore con filetto metrico per utilizzo con pressacavi plastici o metallici	<i>Like A, DA and RA but with metric adapter for use with plastic/metal cable glands</i>
	A/DA ...QA	Con serracavo di montaggio rapido. Il tipo DA...QA è provvisto di guarnizione interna	<i>Supplied with quick-assembly strain relief. DA...QA is provided of internal gasket</i>
	A/DA ...QAS	Con serracavo di montaggio rapido e dispositivo per il collegamento della calza di schermo al guscio connettore. Il tipo DA...QAS è provvisto di guarnizione.	<i>Supplied with quick-assembly strain relief and device for connecting a shielded braid to connector shell. DA...QA is provided of internal gasket</i>
	E	Provisto di zoccolo e di ingombro ridotto. Per impiego con cavi singoli. Non è previsto attacco per la ritenzione del cavo.	<i>Supplied with grommet. reduced overall dimensions. Used for single wires. No cable retention provided</i>
	SR	Come E ma con serracavo integrato e bussola di gomma per la protezione dei cavi.	<i>Like E with strain relief and rubber bushing for cable protection</i>
	G	Con custodia adatta a preformati termo-restringenti o overmolding	<i>Supplied with adapter for preformed shrinkable hose or overmolding</i>
	SB	Per impiego con cavi singoli o multipolari schermati. Con custodia adatta a preformati termo-restringenti o overmolding.	<i>For single wire or multi-pole cables. Supplied with adapter for preformed shrinkable hose or overmolding</i>

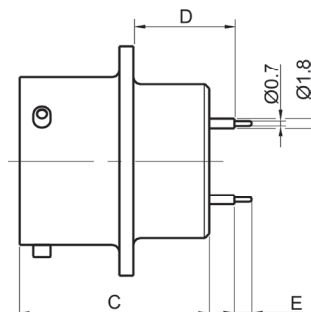
Tabella composizione classi e compatibilità
Class composition and compatibility table



Gusci connettori
Connectors shells
CT 02A


Misura Size	ØA +0/-0.1	ØB ±0.1	C	D	E ±0.1	F ±0.1	G ±0.2	ØH +0.1/-0
8	12.00	11.15	21.4	11.4	1.6	15.10	20.6	3.05
10	14.98	14.30	21.4	11.4	1.6	18.26	23.8	3.05
12	19.05	17.50	21.7	11.4	1.6	20.60	26.2	3.05
14	22.20	20.70	21.7	11.4	1.6	23.00	28.6	3.05
16	25.40	23.85	21.7	11.4	1.6	24.60	31.0	3.05
18	28.57	27.00	21.7	11.4	1.6	27.00	33.3	3.05
20	31.75	30.20	27.0	14.3	2.4	29.40	36.5	3.05
22	34.90	33.53	27.0	14.3	2.4	31.75	39.7	3.05
24	38.10	36.80	29.4	15.3	2.4	34.90	42.9	3.75

Dimensioni in mm. / Dimensions in mm.

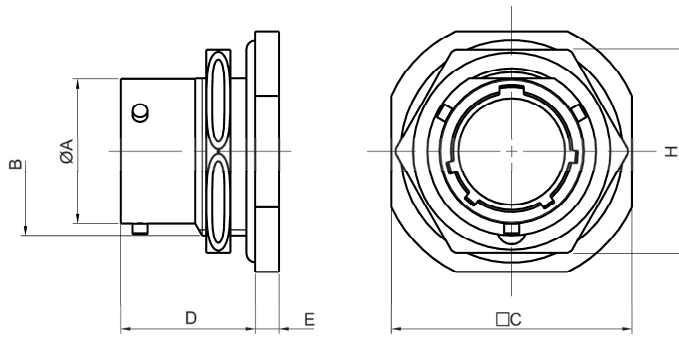

CT 02Y

Misura Size	C max	Y		YC		YL	
		D ±0.4	E ±0.1	D ±0.4	E ±0.1	D ±0.4	E ±0.1
8	18.7	11.05	3.6	9.25	3.2	11.45	7.2
10	18.7	11.05	3.6	9.25	3.2	11.45	7.2
12	18.7	11.05	3.6	9.25	3.2	11.45	7.2
14	18.7	11.05	3.6	9.25	3.2	11.45	7.2
16	18.7	11.05	3.6	9.25	3.2	11.45	7.2
18	18.7	11.05	3.6	9.25	3.2	11.45	7.2
20	24.0	(#)	(#)	(#)	(#)	(#)	(#)
22	24.0	(#)	(#)	(#)	(#)	(#)	(#)
24	25.4	(#)	(#)	(#)	(#)	(#)	(#)

(#) Consultare l'Ufficio Vendite / Consult our Sales Office

Dimensioni in mm. / Dimensions in mm.

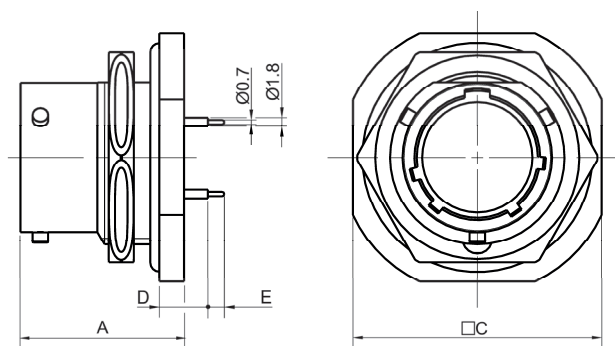
CT 07A



Misura Size	ØA +0/-0.1	Filetto / Thread B	C ±0.2	D ±0.1	E ±0.1	H ±0.4
8	12.00	.5625 – 24 UNEF	23.80	17.7	3.15	19
10	14.98	.6875 – 24 UNEF	27.00	17.7	3.15	22
12	19.05	.8750 – 20 UNEF	31.70	17.7	3.15	27
14	22.20	1.0000 – 20 UNEF	34.90	17.7	3.15	30
16	25.40	1.1250 – 18 UNEF	38.20	17.7	3.15	33
18	28.57	1.2500 – 18 UNEF	41.3	17.7	3.15	36
20	31.75	1.3750 - 18 UNEF	46.0	22.4	4.0	40
22	34.90	1.5000 – 18 UNEF	49.2	22.4	4.0	43
24	38.10	1.6250 – 18 UNEF	52.4	22.4	4.0	46

Dimensioni in mm. / Dimensions in mm.

CT 07Y

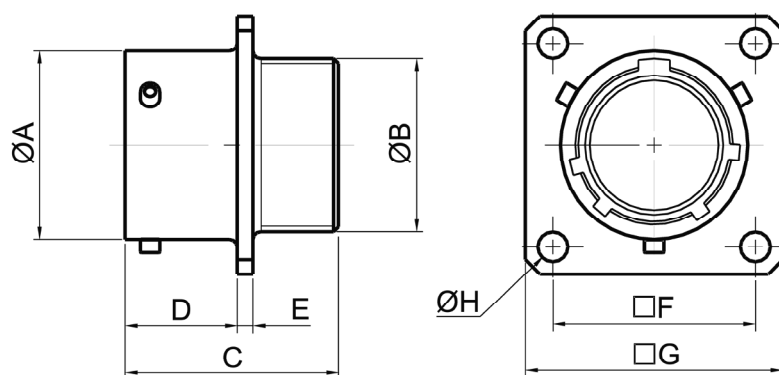


Misura Size	A max	Y		YC		YL	
		D ±0.4	E ±0.1	D ±0.4	E ±0.1	D ±0.4	E ±0.1
8	20.85	6.15	3.6	4.35	3.2	6.55	7.2
10	20.85	6.15	3.6	4.35	3.2	6.55	7.2
12	20.85	6.15	3.6	4.35	3.2	6.55	7.2
14	20.85	6.15	3.6	4.35	3.2	6.55	7.2
16	20.85	6.15	3.6	4.35	3.2	6.55	7.2
18	20.85	6.15	3.6	4.35	3.2	6.55	7.2
20	(#)	(#)	(#)	(#)	(#)	(#)	(#)
22	(#)	(#)	(#)	(#)	(#)	(#)	(#)
24	(#)	(#)	(#)	(#)	(#)	(#)	(#)

(#) Consultare l'Ufficio Vendite / Consult our Sales Office

Dimensioni in mm. / Dimensions in mm.

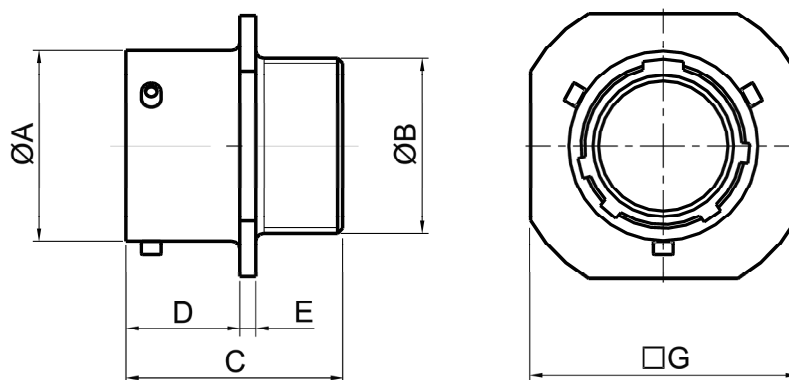
CT 00



Misura Size	$\varnothing A$ +0/-0.1	Filetto / Thread B	C	D	E ± 0.1	F ± 0.1	G ± 0.2	$\varnothing H$ +0.1/-0
8	12.00	.4375 – 28 UNEF	21.4	11.4	1.6	15.10	20.6	3.05
10	14.98	.5625 – 24 UNEF	21.4	11.4	1.6	18.26	23.8	3.05
12	19.05	.6875 – 24 UNEF	21.7	11.4	1.6	20.60	26.2	3.05
14	22.20	.8125 – 20 UNEF	21.7	11.4	1.6	23.00	28.6	3.05
16	25.40	.9375 – 20 UNEF	21.7	11.4	1.6	24.60	31.0	3.05
18	28.57	1.0625 – 18 UNEF	21.7	11.4	1.6	27.00	33.3	3.05
20	31.75	1.1875 – 18 UNEF	27.0	14.3	2.4	29.40	36.5	3.05
22	34.90	1.3125 – 18 UNEF	27.0	14.3	2.4	31.75	39.7	3.05
24	38.10	1.4375 – 18 UNEF	29.4	15.3	2.4	34.90	42.9	3.75

Dimensioni in mm. / Dimensions in mm.

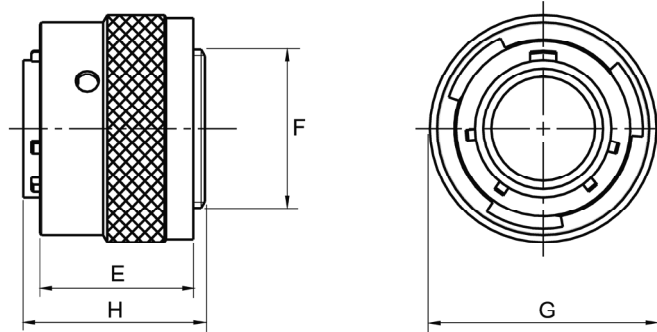
CT 01



Misura Size	$\varnothing A$ +0/-0.1	Filetto / Thread B	C ± 0.2	D ± 0.1	E ± 0.1	G ± 0.2
8	12.00	.4375 – 28 UNEF	21.4	11.4	1.6	16
10	14.98	.5625 – 24 UNEF	21.4	11.4	1.6	19
12	19.05	.6875 – 24 UNEF	21.7	11.4	1.6	23
14	22.20	.8125 – 20 UNEF	21.7	11.4	1.6	26
16	25.40	.9375 – 20 UNEF	21.7	11.4	1.6	29
18	28.57	1.0625 – 18 UNEF	21.7	11.4	1.6	32
20	31.75	1.1875 – 18 UNEF	27.0	14.3	2.4	35
22	34.90	1.3125 – 18 UNEF	27.0	14.3	2.4	38.5
24	38.10	1.4375 – 18 UNEF	29.4	15.3	2.4	42.5

Dimensioni in mm. / Dimensions in mm.

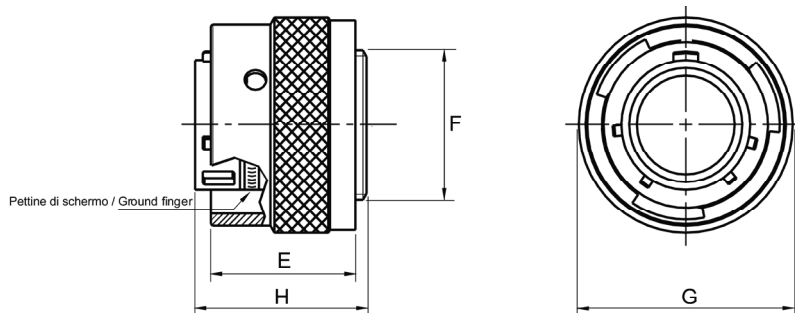
CT 06
CT 08



Misura Size	H ±0.1	E ±0.1	ØG ±0.1	Filetto / Thread F
8	22.0	17	18.10	.4375 – 28 UNEF
10	22.0	17	21.05	.5625 – 24 UNEF
12	22.0	17	25.15	.6875 – 24 UNEF
14	22.0	17	28.40	.8125 – 20 UNEF
16	22.0	17	31.60	.9375 – 20 UNEF
18	22.0	17	35.00	1.0625 – 18 UNEF
20	25.4	19	37.70	1.1875 - 18 UNEF
22	25.4	19	40.20	1.3125 – 18 UNEF
24	27.0	20	44.00	1.4375 – 18 UNEF

Dimensioni in mm. / Dimensions in mm.

CT 96
CT 98

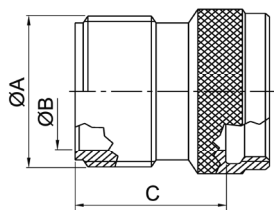


Misura Size	H ±0.1	E ±0.1	ØG ±0.1	Filetto / Thread F
8	22.0	17	18.10	.4375 – 28 UNEF
10	22.0	17	21.05	.5625 – 24 UNEF
12	22.0	17	25.15	.6875 – 24 UNEF
14	22.0	17	28.40	.8125 – 20 UNEF
16	22.0	17	31.60	.9375 – 20 UNEF
18	22.0	17	35.00	1.0625 – 18 UNEF
20	25.4	19	37.70	1.1875 - 18 UNEF
22	25.4	19	40.20	1.3125 – 18 UNEF
24	27.0	20	44.00	1.4375 – 18 UNEF

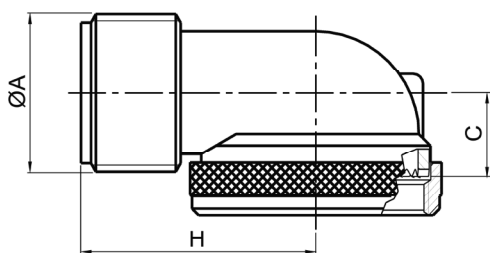
Dimensioni in mm. / Dimensions in mm.

Accessori posteriori per classe connettore

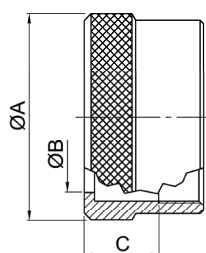
Inline accessories by connector class

A

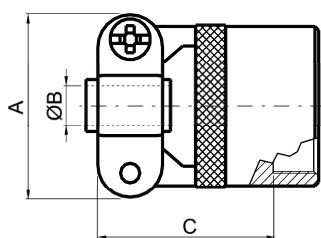
Mis. Size	Filetto / Thread A	ØB	C max.
8	.5000 – 28 UNEF	7.90	18.7
10	.6250 – 28 UNEF	11.00	18.7
12	.7500 – 20 UNEF	14.50	18.7
14	.8125 – 20 UNEF	17.20	18.7
16	1.0000 – 20 UNEF	20.35	18.7
18	1.1875 – 18 UNEF	23.20	18.7
20	1.1875 – 18 UNEF	26.15	16.2
22	1.4375 – 18 UNEF	29.20	16.2
24	1.4375 – 18 UNEF	32.35	16.2



Mis. Size	Filetto / Thread A	H ±1	C max.
8	.5000 – 28 UNEF	19	10.0
10	.6250 – 28 UNEF	24	10.0
12	.7500 – 20 UNEF	27	13.0
14	.8125 – 20 UNEF	28	16.0
16	1.0000 – 20 UNEF	30	19.0
18	1.1875 – 18 UNEF	32	22.0
20	1.1875 – 18 UNEF	34	22.6
22	1.4375 – 18 UNEF	36	25.6
24	1.4375 – 18 UNEF	39	29.0

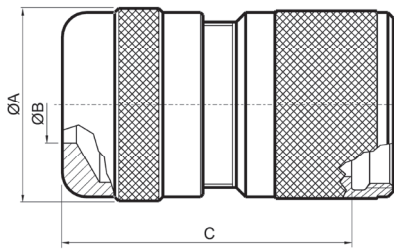
E

Mis. Size	ØA +0/-0.15	ØB +0.1/-0	C max.
8	14.0	8.20	9.9
10	17.2	11.40	9.9
12	21.0	14.55	9.9
14	24.0	17.50	9.9
16	26.75	20.60	9.9
18	30.0	23.15	9.9
20	33.5	26.50	10.4
22	36.5	29.60	10.4
24	39.5	32.50	10.4

SR

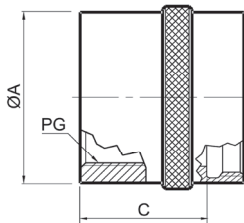
Mis. Size	ØA max.	ØB ±0.25	C max.
8	20.60	3.2	20.3
10	22.20	4.8	20.3
12	25.40	7.9	20.3
14	28.60	9.5	20.3
16	30.20	12.7	20.3
18	36.50	15.9	20.3
20	36.50	15.9	26.6
22	43.65	19.0	26.6
24	43.65	20.3	26.6

A/DA...QA ÷ A/DA...QAS



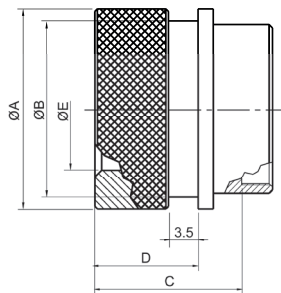
Mis. Size	ØA max	ØB min.-max.	C max
8	15.0	2 ÷ 7	37.8
10	21.0	2 ÷ 9	37.8
12	24.0	2 ÷ 11	37.8
14	24.0	2 ÷ 11	37.8
16	24.0	2 ÷ 11	37.8
18	42.0	2 ÷ 11 / 9 ÷ 17	37.8
20	42.0	9 ÷ 17	40.8
22	42.0	9 ÷ 17	40.8
24	42.0	9 ÷ 17 / 15 ÷ 21 / 19 ÷ 25	40.8

A/DA...PG ÷ A/DA...M



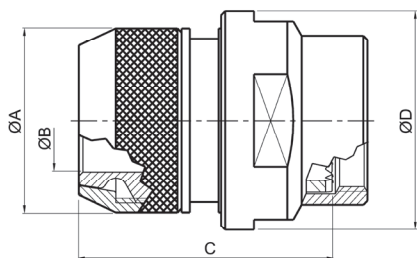
Mis. Size	ØA max	Fil./Thread PG	Fil./Thread M	C max
8	14.6	7 / 9	12	17.8
10	18.5	9	12 / 16	17.8
12	22.5	11	16 / 20	17.8
14	27.0	11 / 13.5 / 16	16 / 20 / 25	17.8
16	27.3	11 / 13.5 / 16	16 / 20 / 25	22.8
18	30.3	13.5 / 16	20 / 25	22.8
20	33.4	13.5 / 16	20 / 25	25.8
22	36.7	13.5 / 16 / 21	25 / 32	25.8
24	39.9	13.5 / 16 / 21	25 / 32	32.2

G



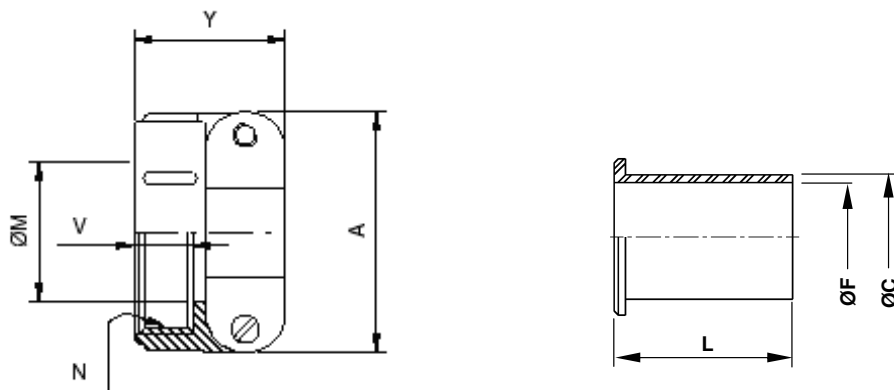
Mis. Size	ØA max	ØB +0/-0.1	ØE +0.1/-0	D ±0.1	C max
8	15.5	13.0	8.2	12.2	16.8
10	18.3	15.8	11.4	12.2	16.8
12	23.6	21.0	14.55	12.2	16.8
14	24.4	21.8	17.50	12.2	16.8
16	29.7	25.9	20.60	14.5	19.8
18	31.9	28.2	23.15	14.5	19.8
20	36.0	32.2	26.50	15.8	20.8
22	38.4	34.5	29.60	15.8	20.8
24	41.5	37.6	32.80	14.9	20.8

SB



Mis. Size	ØA max	ØB min	ØD max	C max
8	16.3	6.70	19.80	29.8
10	18.4	9.30	22.50	29.8
12	22.4	12.25	26.90	29.8
14	25.4	15.40	29.90	29.8
16	28.4	18.50	32.85	30.8
18	32.4	20.20	35.80	30.8
20	34.4	23.20	39.60	30.8
22	38.4	26.05	42.90	30.8
24	41.3	30.00	45.90	30.8

Morsetti Serracavi CVS 3057 tipo A e Manicotti di protezione CVS 3420 CVS 3057 cable clamps type A and CVS 3420 protection bushings



Serracavi / Cable clamps

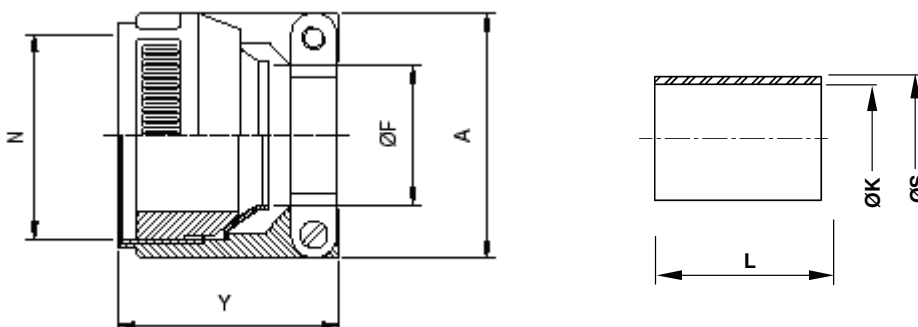
P/N	Y max	V ±0.2	A max	ØM min	Filetto / Thread N	Connettori mis. Connector size
MS 3057-3A	20.6	10.5	20.6	6.35	.5000 – 28 UNEF	8
MS 3057-4A	20.6	10.5	22	8	.6250 – 28 UNEF	10
MS 3057-6A	22.2	10.5	27	11	.7500 – 20 UNEF	12
MS 3057-8A	24	10.5	28	14.2	.8125 – 20 UNEF	14
MS 3057-10A	25	10.5	33	15.8	1.0000 – 20 UNEF	16
MS 3057-12A	25	10.5	35	19	1.1875 – 18 UNEF	18-20
MS 3057-16A	26	10.5	43	23.8	1.4375 – 18 UNEF	22-24

Manicotti/ Bushings

P/N	ØF max	ØC ±0.2	L max
RFCVS 3420-3	3.3	5.33	73
RFCVS 3420-4	5.6	7.6	69.8
RFCVS 3420-6	7.9	10.8	66.8
RFCVS 3420-8	11	14	63.5
RFCVS 3420-10	14.2	15.6	60.3
RFCVS 3420-12	15.8	18.8	57.1
RFCVS 3420-16	19	23.6	53.9

Dimensioni in mm. / Dimensions in mm.

Morsetti Serracavi CVS 3057-C e Bussole di riduzione CVS 3420-A CVS 3057-C cable clamps and CVS 3520-A reduction sleeves



Serracavi / Cable clamps

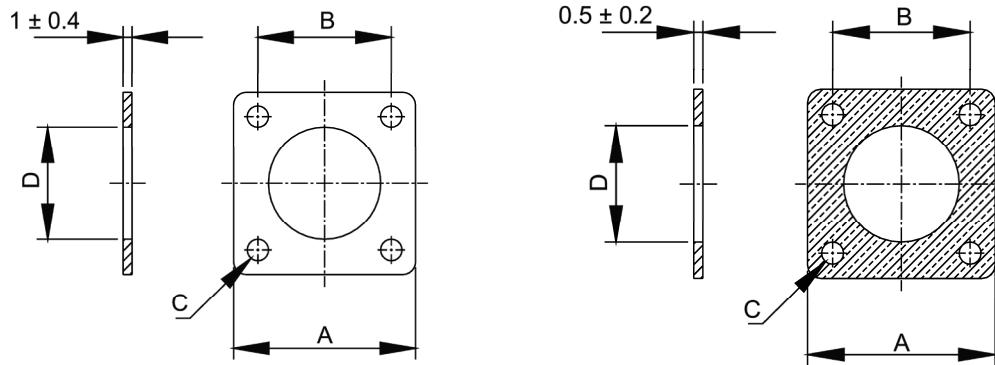
P/N	Y max	A ±0.2	ØF		Filetto / Thread N	Connettori mis. Connector size
			max	min		
RFCVS 3057-3C	33.2	20.2	5.56	0.68	.5000 – 28 UNEF	8
RFCVS 3057-4C	32.3	22.7	7.9	2.4	.6250 – 28 UNEF	10
RFCVS 3057-6C	32.3	25.8	11.2	5.8	.7500 – 20 UNEF	12
RFCVS 3057-8C	32.3	28.1	13.4	8	.8125 – 20 UNEF	14
RFCVS 3057-10C	35.3	31.7	15.9	9.6	1.0000 – 20 UNEF	16
RFCVS 3057-12C	35.7	37.3	19	11.3	1.1875 – 18 UNEF	18-20
RFCVS 3057-16C	39	43.2	23.8	15.5	1.4375 – 18 UNEF	22-24

Manicotti/ Bushings

P/N	ØS ±0.2	ØK ±0.2	L ±0.8
RFCVS 3420-3A	5.3	2.9	50.8
RFCVS 3420-4A	7.8	5.6	50.8
RFCVS 3420-6A	11	7.9	50.8
RFCVS 3420-8A	13.6	11.1	50.8
RFCVS 3420-10A	15.8	11.1	50.8
RFCVS 3420-12A	18.9	13.7	50.8
RFCVS 3420-16A	23.7	19	50.8

Dimensioni in mm. / Dimensions in mm.

Guarnizione per connettori CT 00 e 02
Gaskets for CT 00 and 02 connectors



Misura Size	P/N		A ±0.5	B ±1	C ±0.7	D ±0.5
	Non conduttiva Not conductive	Conduttiva Conductive				
8	Y_41A081983	Y_41AR081983	20.6	15.1	3.3	12.7
10	Y_41A101983	Y_41AR101983	23.8	18.25	3.3	15.9
12	Y_41A121983	Y_41AR121983	26.2	20.6	3.3	19.1
14	Y_41A141983	Y_41AR141983	28.6	23	3.3	22.3
16	Y_41A161983	Y_41AR161983	31	24.6	3.3	25.5
18	Y_41A181983	Y_41AR181983	33.3	27	3.3	28.6
20	Y_41A201983	Y_41AR201983	36.5	29.35	3.3	31.8
22	Y_41A221983	Y_41AR221983	39.7	31.75	3.3	35
24	Y_41A241983	Y_41AR241983	42.9	34.9	4	38.2

Dimensioni in mm. / Dimensions in mm.

Tappi di protezione / *Protective caps*

CT 043 14 F7 C

P/N: _____

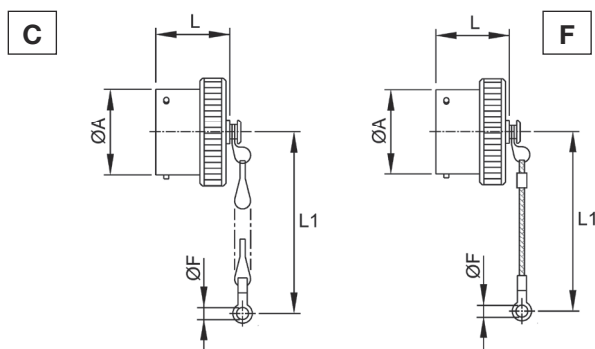
Misura / *Size* _____
 Vedere misura guscio connettore / *See connector shell size*

Trattamento gusci / *Shell finish* _____
 Vedere pag. 152/ *See page 152*

Tipo attacco / *Attachment type* _____

- C: catena / *chain*
- F: fune / *rope*
- CR: catena e anello / *chain & ring*
- FR: fune e anello / *rope & ring*

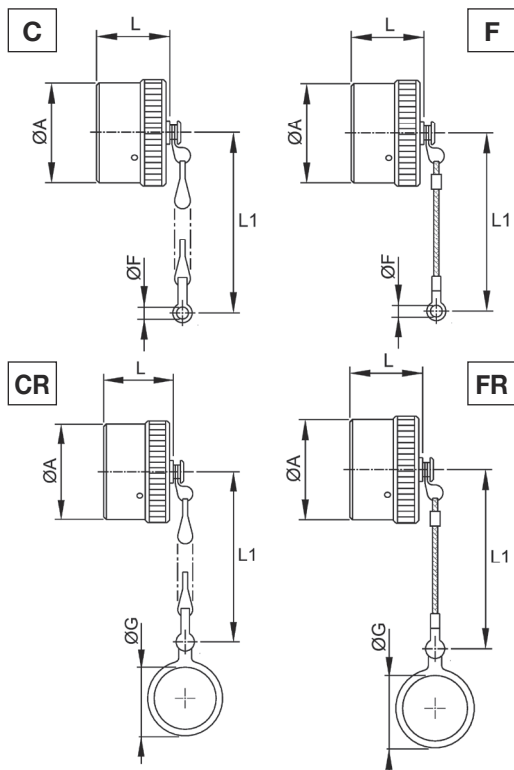
CT 042 Tappi per connettori volanti 06/96 e 08/98
Caps for 06/96 & 08/98 plug connectors



Misura Size	ØA +0.02 +0.12	F +0.2 0	L +0.7 +0.5	L1 mm
8	12.01	4.3	16	76.2
10	14.98	4.3	16	76.2
12	19.05	4.3	16	88.9
14	22.22	4.6	16	88.9
16	25.4	4.3	16	88.9
18	28.57	4.3	16	88.9
20	31.75	4.3	17.6	101.6
22	34.92	4.3	17.6	101.6
24	38.1	4.3	18.4	101.6

Dimensioni in mm. / *Dimensions in mm.*

CT 043 Tappi per connettori da pannello 00/01/02/07
Caps for 00/01/02/07 panel connectors



Misura Size	ØA max	F +0.2 -0	G +0.2 -0.1	L +0.25 -0	L1 ±3
8	17.95	4.3	14.7	14.5	76.2
10	20.7	4.3	17.85	14.5	76.2
12	25.4	4.3	22.65	14.5	88.9
14	28.65	4.3	25.8	14.5	88.9
16	31.9	4.3	29	14.5	88.9
18	34.7	4.3	32.15	14.5	88.9
20	38	4.3	35.35	14.5	101.6
22	41.25	4.3	38.5	14.5	101.6
24	44.4	4.3	41	15.55	101.6

Dimensioni in mm. / *Dimensions in mm.*

GM

Modular Bayonet connectors:

a flexible solution for data and signals transmission in railways harsh environment.

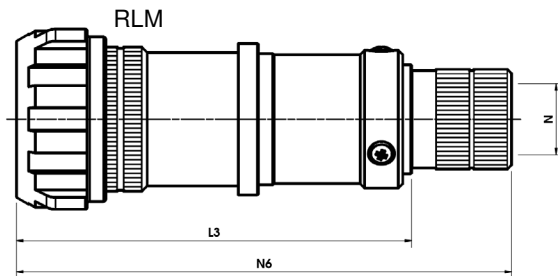
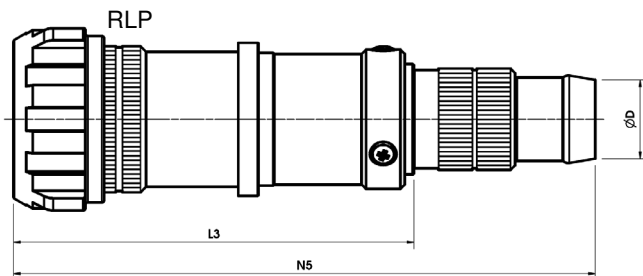
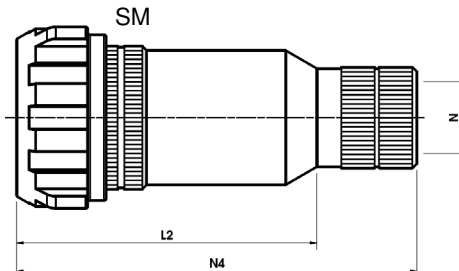
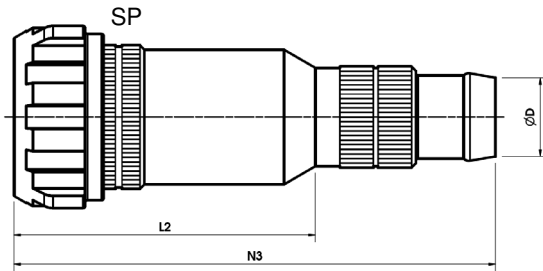
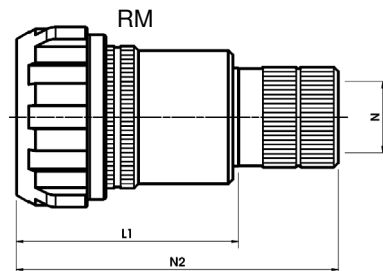
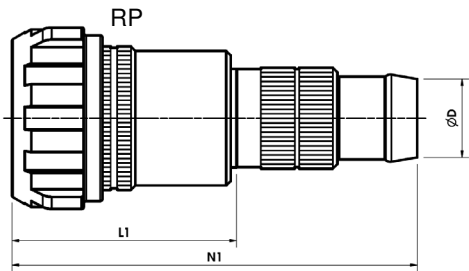
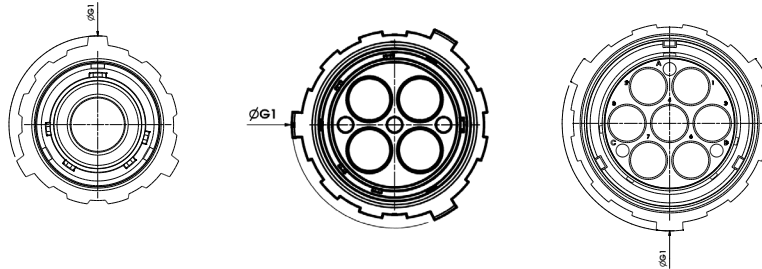
- ✓ Passenger control
- ✓ Networking and lighting control
- ✓ Diagnostic support for brakes, motors and doors
- ✓ Passenger display and Internet connection

- Directly derived from the reliable CVBS series
- 5 keyed guiding system
- Mechanical coding – variable combined polarization system (available for 4 and 7 modules only)
- Audible, visible and tactile mating.
- One quarter turn lock for coupling
- Optical, coax, combined data and power modules available.
- Comply all requirements of transit applications.
- IP67 rating according EN 60529.
- RoHS complying material & finish.
- Rubber coated coupling nut offers damping protection against mechanical shock.
- Available with back-shells expressly designed for single or double headed interconnection between vehicles.



Straight plug connector: cable accessories

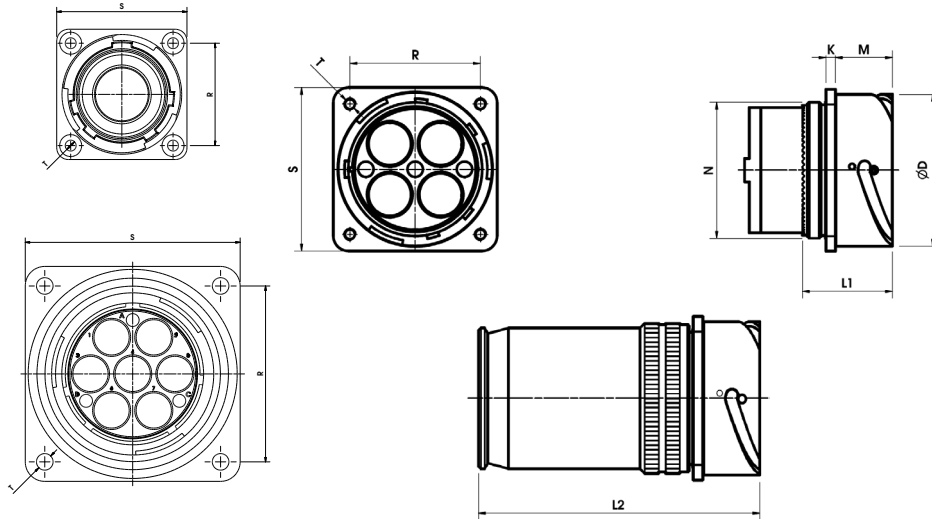
- RP: Back shell , grommet and adapter for rubber hose
- SP: : Back shell, internal strain relief, grommet and adapter for rubber hose
- RLP: Back-shell for double headed jumper, grommet and adapter for rubber hose
- RM: Back shell and adapter with grommet and metric thread
- SM: Back shell, internal strain relief, adapter with grommet and metric thread
- RLM: Back-shell for double headed jumper, adapter with grommet and metric thread



Size & modules nr	ØG1 max.	L1 max.	N1 ±0.5	N2 ±0.5	L2 max.	N3 ±0.5	N4 ±0.5	L3 max.	N5 ±0.5	N6 ±0.5	N thread	ØD max.
24A1	60.3		130	147	n.a.	105	169	176	154	218	M20*	*
40A4	88.3	105	183	154	140	218	182	183	261	225	M32*	*
48A7	109.3	151	223	187	171	238	208	208	289	233	M32*	*

* = Please consult our Sales Office

Receptacle connector: cable accessories



Size & modules number	ØD +0/-0.15	S ±0.3	R ±0.1	T		K ±0.2	M ±0.2		L1 max.		L2 max.	
				front mounting	rear mounting		front mounting	rear mounting	front mounting	rear mounting	front mounting	rear mounting
24A1	40.9	44.45	34.93	Ø3.7 H13	M4	4	20.3	23.4	35.9	38.8	122.1	125
40A4	65.5	49.8	55.6	Ø4.4 H13	M5	4	22.3	24.45	37.9	38.9	124	125
48A7	84-90 #	110	90	Ø8.5 H13	M8	8	45		120		120	

= double diameter

Order codes

Connectors

Series Prefix	GM =	Series prefix	GM	6	RM20*	24A1	P	A001
Shell type	2 =	Front panel mounting						
	3 =	Rear panel mounting						
	6 =	Straight plug						
	- =	W/out back-shell						
	A =	Internal strain relief & w/out rear thread						
Back-shell	RP/RM =	Back-shell for standard use						
	SP/SM =	Back-shell + internal strain relief						
	RLP/RLM =	Back shell for double headed jumper						
Size and modules nr	24A1 =	Size 24 with 1 module						
	40A4 =	Size 40 with 4 modules						
	48A7 =	Size 48 with 7 modules						
Modules gender	P =	Male modules						
	S =	Female modules						
Modification code	- =	Supplied w/out modules						
	*** =	Consult factory						

* metric thread or rubber size

GMM modules

GM connectors are designed for accepting modules for many different applications:

- Ethernet and data transmission
- Coaxial connections
- Fibre optic
- Power cables
- Signals up to 14 wires

Each module is pneumatically sealed in its housing (the connector is suitable for pressurized cabin).

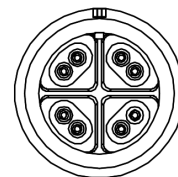
Plastic hard insert offers positive module rear release retention.

C7 module

- ✓ Ethernet Cat 6A
- ✓ Ethernet Cat 7
- ✓ Ethernet Cat 7A



- Match CAT 7A requirements.
- Tested according to Trenitalia 376575.
- Over-moulded contacts pairs at controlled impedance.
- Each pair is fully shielded from the adjacent to reduce the crosstalk.
- 2x4 contact termination 23 AWG - available 24 and 26 AWG.
- Reduced components quantity makes easier and more reliable assembly.



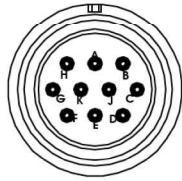
Materials and finishes

Shell	Aluminum alloy – Electro-less nickel plated
Inner contacts	Copper alloy – Gold plating over Nickel
Insulator	Controlled impedance thermo plastic resin

14SZ-10 module

14SZ-8 module

- 2x4 contact termination 0.5 sqmm. – available 26÷20 AWG
- High grade efficiency shielding for each module's EMI/RFI protection



- ✓ Ethernet Cat 5A
- ✓ Ethernet Cat 6



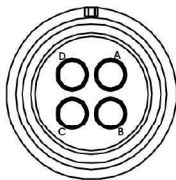
Materials and finishes

Shell
Contacts
Insulator

Aluminum alloy – Electro-less nickel plated
Copper alloy – Gold plating over Nickel
Fire resisting rubber compound complies EN 45545-2 - NFPA 130 (ASTM E 162, ASTM E 662, BSS 7239)

14S2 module

- 4 contact terminations 0.5 sqmm. – available 26÷20 AWG and 1÷1.5 sqmm
- High grade efficiency shielding for each module's EMI/RFI protection



- ✓ Ethernet Cat 5
- ✓ MVB
- ✓ RS485



Materials and finishes

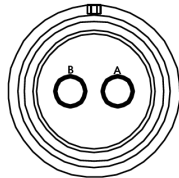
Shell
Contacts
Insulator

Aluminum alloy – Electro-less nickel plated
Copper alloy – Gold plating over Nickel
Fire resisting rubber compound complies EN 45545-2 - NFPA 130 (ASTM E 162, ASTM E 662, BSS 7239)

14S9 module

- 2 contact terminations 0.5 sqmm. – available 26÷20 AWG and 1÷1.5 sqmm
- High grade efficiency shielding for each module's EMI/RFI protection

✓ WTB

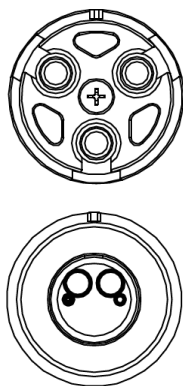


Materials and finishes

Shell	Aluminum alloy – Electro-less nickel plated
Contacts	Copper alloy – Gold plating over Nickel
Insulator	Fire resisting rubber compound complies EN 45545-2 - NFPA 130 (ASTM E 162, ASTM E 662, BSS 7239)

FO optical module

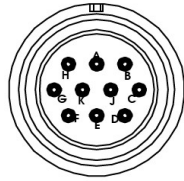
	accepted optical contacts
FO3	3 SC type
FOB2	2 expanded beam
FOB4	4 expanded beam



14SZ-10 module

14SZ-8 module

- 2x4 contact termination 0.5 sqmm. – available 26÷20 AWG
- High grade efficiency shielding for each module's EMI/RFI protection



- ✓ Ethernet Cat 5A
- ✓ Ethernet Cat 6

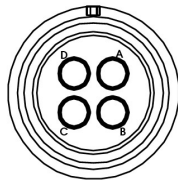


Materials and finishes

Shell	Aluminum alloy – Electro-less nickel plated
Contacts	Copper alloy – Gold plating over Nickel
Insulator	Fire resisting rubber compound complies EN 45545-2 - NFPA 130 (ASTM E 162, ASTM E 662, BSS 7239)

14S2 module

- 4 contact terminations 0.5 sqmm. – available 26÷20 AWG and 1÷1.5 sqmm
- High grade efficiency shielding for each module's EMI/RFI protection



- ✓ Ethernet Cat 5
- ✓ MVB
- ✓ RS485



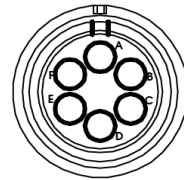
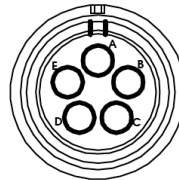
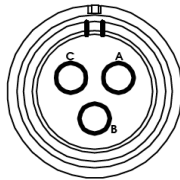
Materials and finishes

Shell	Aluminum alloy – Electro-less nickel plated
Contacts	Copper alloy – Gold plating over Nickel
Insulator	Fire resisting rubber compound complies EN 45545-2 - NFPA 130 (ASTM E 162, ASTM E 662, BSS 7239)

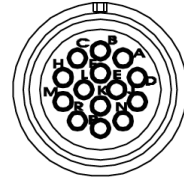
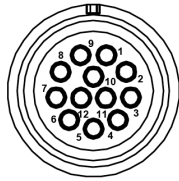
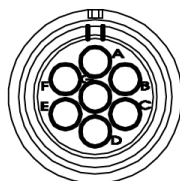
Multifunctional modules



Available contacts layout



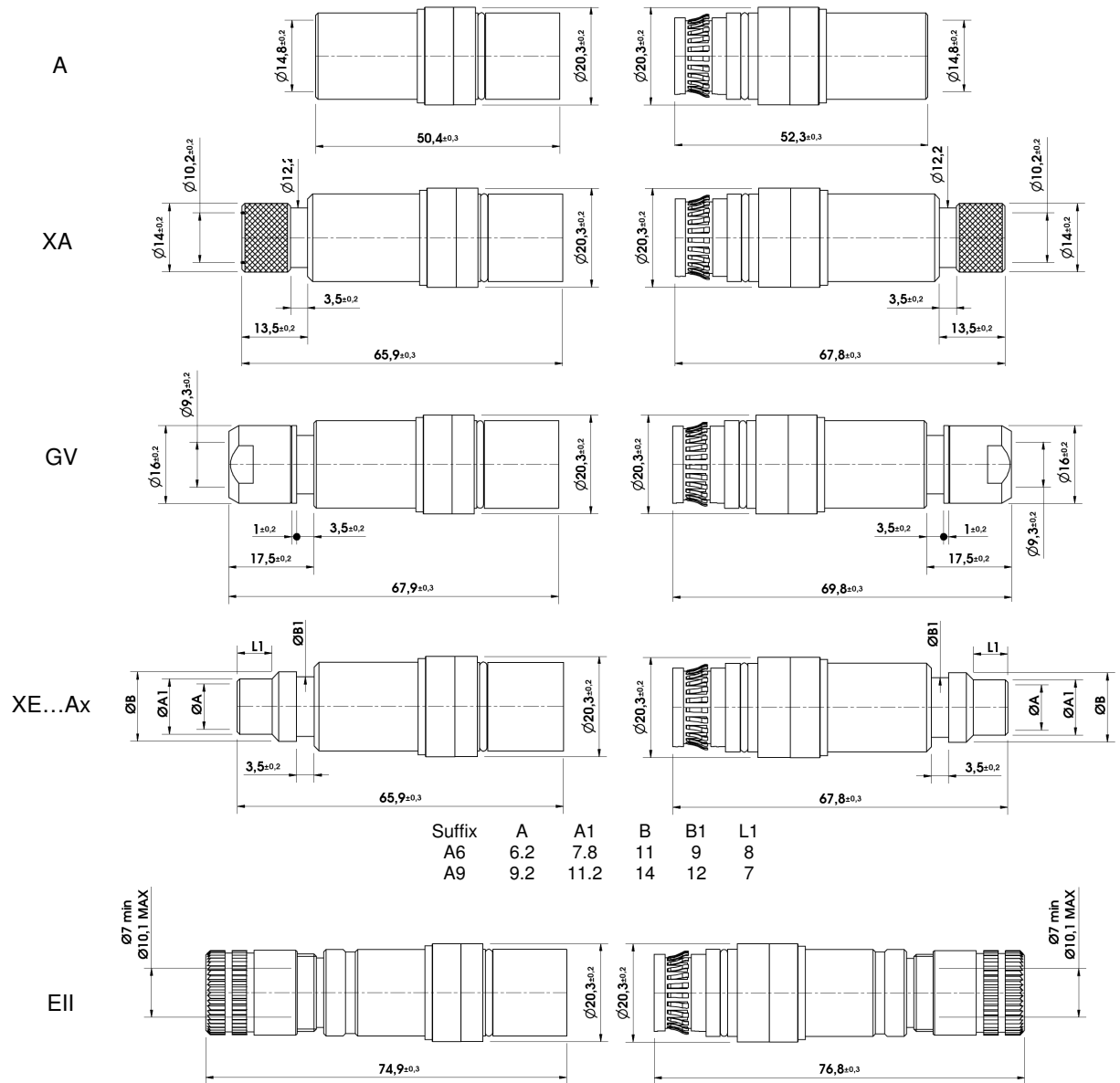
Module code	14S7	14S5	14S6
Contacts nr	3	5	6
Available contact terminations	18÷16AWG - 1÷1.5sq.mm. 0.15÷0.5sq.mm. - 20÷26AWG	18÷16AWG - 1÷1.5sq.mm. 0.15÷0.5sq.mm. - 20÷26AWG	18÷16AWG - 1÷1.5sq.mm. 0.15÷0.5sq.mm. - 20÷26AWG
Working voltage	500Vac – 700Vdc	200Vac – 250Vdc	200Vac – 250Vdc
Rated current	13A	13A	13A



Module code	14SA7	14Z12	14Z14
Contacts nr	7	12	14
Available contact terminations	18÷16AWG - 1÷1.5sq.mm. 0.15÷0.5sq.mm. - 20÷26AWG	18÷16AWG - 1÷1.5sq.mm. 0.15÷0.5sq.mm. - 20÷26AWG	0.15÷0.5sq.mm. - 20÷26AWG
Working voltage	200Vac – 250Vdc		
Rated current	13A		

Materials and finishes

Shell	Aluminum alloy – Electroless nickel plated
Contacts	Copper alloy – Gold plating over Nickel
Insulator	Fire resisting rubber compound complies EN 45545-2 - NFPA 130 (ASTM E 162, ASTM E 662, BSS 7239)



Order Code

Prefix	GMM	6	EII	14S9	P	N02
Shell type	1 = Module for receptacle 6 = Module for plug					
Module adapter	A = Short back shell XA = Adapter for heat shrink tube GV = Adapter with shielding nut & cone XE...Ax = Adapter for crimping sleeve and heat shrink tube EII = Double spring adapter (strain relief & shielding)					
Module code	... = See module layouts at previous pages					
Contacts gender	P = Male contacts module (#) S = Female contacts module (#) LC = Supplied w/out contacts					
Contacts termination	N01 = 16÷18AWG / 1÷1.5sq.mm. N02 = 0.15÷0.5sq.mm. - 20÷26AWG N03 = AWG23 N... = Consult Factory for dedicated contact equipment					

(#) C7 modules available as type1 with female contacts and type 6 with male contacts

Connector accessories & Assembly tools

Dummy modules

For male module cavity:
For female module cavity:

Order Code
GMM614
GMM114



Mechanical coding accessories

Threaded post
Threaded cap

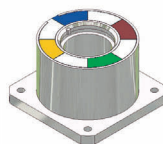
Order Code
GMM42
GMM43



Modules assembly tools

Modules code	Module extraction tool	Module extraction protection	Contacts insertion tool	Contacts extraction tool	Female contacts guide pin	Contacts crimping tool	Wire stripping tool
14S9/2/5/7/A7	120206	61124	61036	61170	61020	61024+61001	-
12Z10	120206	61124	61036	61057	-	61000+61060	-
14Z12	120206	61124	61036	61057	-	61000+61060	-
14Z14	120206	61124	61036	61057	-	61000+61060	-
C7 (1)	120206	61167	-	-	-	61165	61166
P4	120206	-	61054	61055+61056	-	(3)	-
P8	120206	-	61013	61015	-	(3)	-
P13-3	120206	-	61011 (2)	61023	61021	61024+61001	-
C	120206	-	(3)	(3)	-	(3)	-

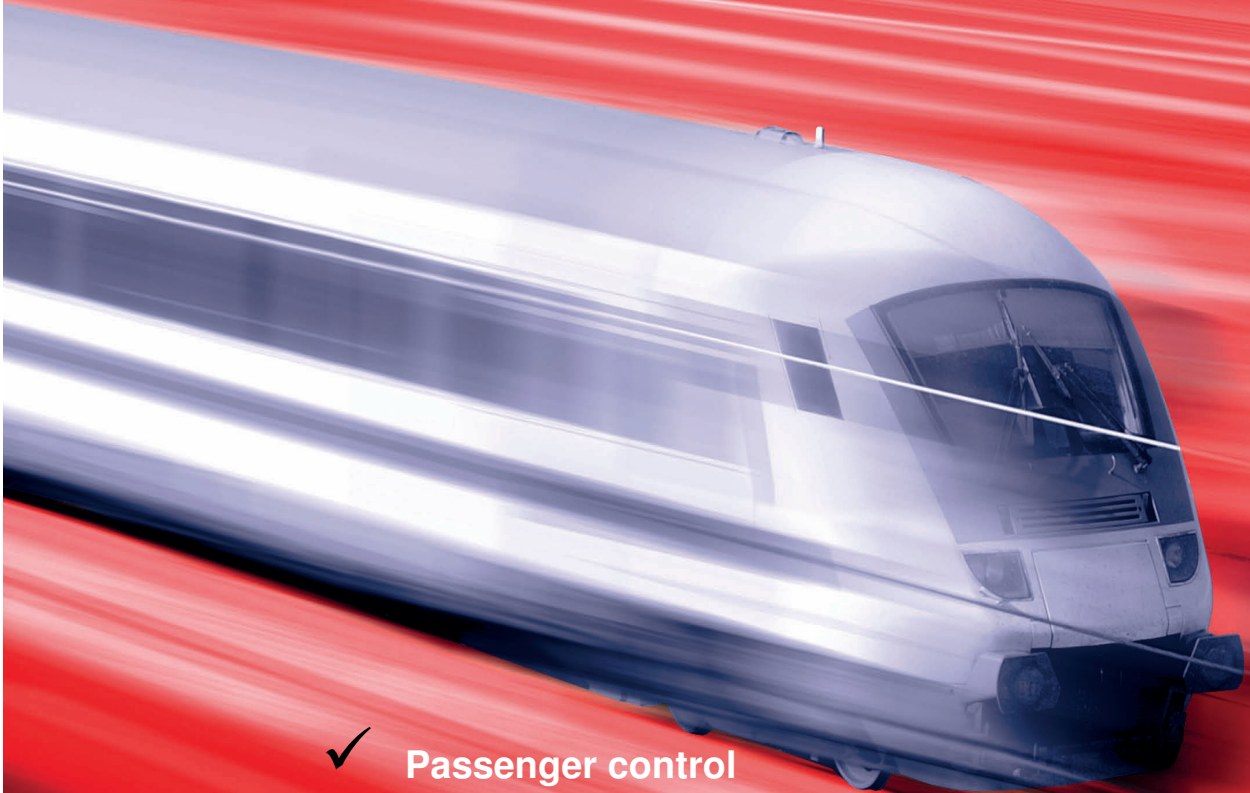
1) For a faster wire identification & easier assembly we suggest to add 61171 to the C7 standard tool kit
 2) Use 61012 for 4 & 6 sq.mm. wires
 3) Consult factory for suitable tool and assembly instructions



EVBS-C7

Bayonet Category 7 connector

the definitive alternative for
Ethernet static
interconnections inside
railways vehicles

- 
- ✓ Passenger control
 - ✓ Networking and lighting control
 - ✓ Diagnostic support for brakes, motors and doors
 - ✓ Passenger display and Internet connection

EVBS-C7

- ✓ Ethernet Cat 6A
- ✓ Ethernet Cat 7
- ✓ Ethernet Cat 7A



- Directly derived from Cat 7 module used on GM, GMH and S&P series
- Audible, visible and tactile mating.
- One quarter turn lock for coupling
- Vibration and shock resistant: according to EN 61373 category 1, class B, body mounted.
- Fire behaviour: according to EN 45545-2
- Positive fitting to the dimensions requested by the most updated cables for static applications
- Match CAT 7A requirements.
- Tested according to Trenitalia 376575.
- Over-moulded contacts pairs at controlled impedance.
- Each pair is fully shielded from the adjacent to reduce the crosstalk.
- 2x4 contact termination 23 AWG - available 24 and 26 AWG.
- Reduced components quantity makes easier and more reliable assembly.
- The square receptacle makes possible the reliable fixing on panels and racks

Order Code

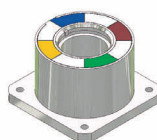
Prefix	EVBS-C7	EVBS-C7	6	EII	N03
Shell type	1 = Female module 6 = Male module				
Module adapter	XA = Adapter for heat shrink tube GV = Adapter with shielding nut & cone XE...Ax = Adapter for crimping sleeve and heat shrink tube EII = Double spring adapter (strain relief & shielding)				
Contacts termination	N03 = AWG23 N04 = AWG24 N... = Consult Factory for dedicated contact equipment				

(#) Available as type1 with female contacts and type 6 with male contacts

EVBS-C7 assembly tools



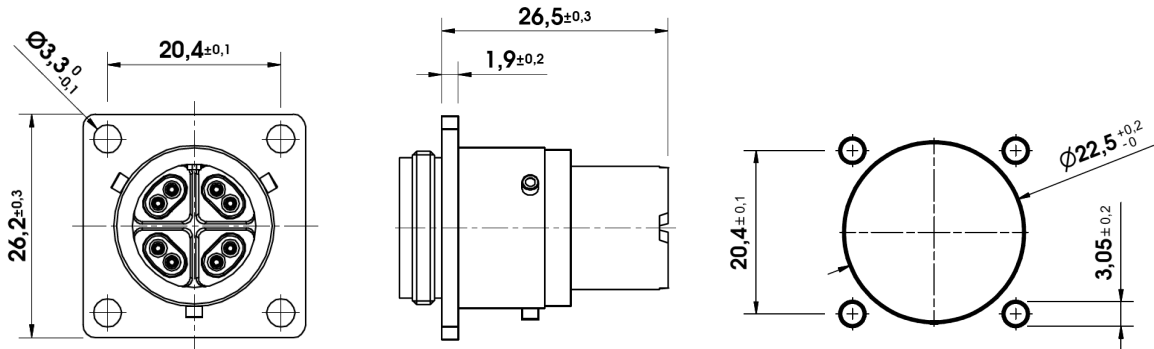
61166
Wire stripping tool



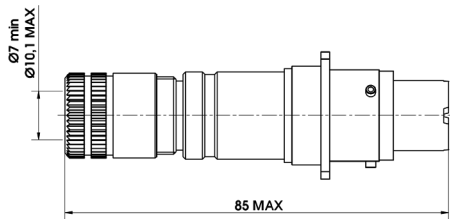
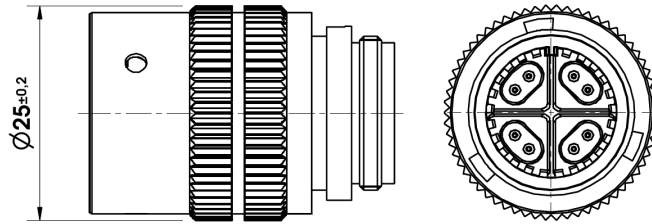
61171
Wire identification tool

61165
Contacts crimping tool

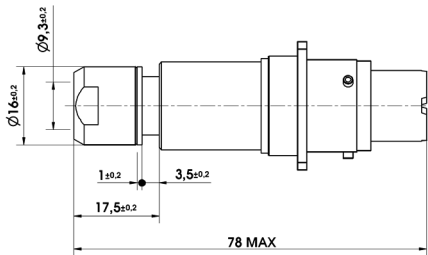
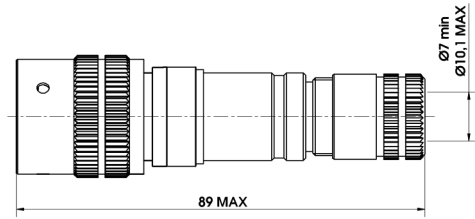




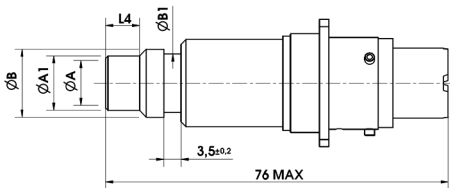
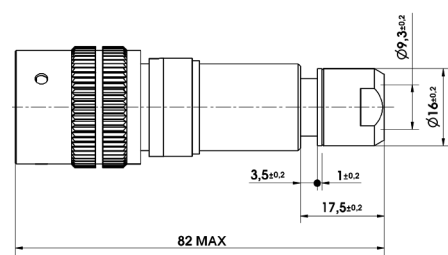
Panel cut out for front or rear mounting.
Max rear mounting panel thickness: 2,5mm



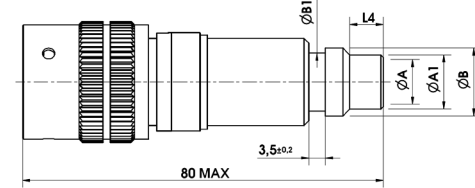
EII



GV



XE...Ax



Suffix	A	A1	B	B1	L4
A6	6.2	7.8	11	9	8
A9	9.2	11.2	14	12	7

Materials and finishes

Shell	Aluminum alloy – Electro-less nickel plated
Inner contacts	Copper alloy – Gold plating over Nickel
Insulator	Controlled impedance thermo plastic resin

DATA CONNECTORS AND SIGNALS EVBS SERIES



Connettore serie EVBS/*EVBS connector series*

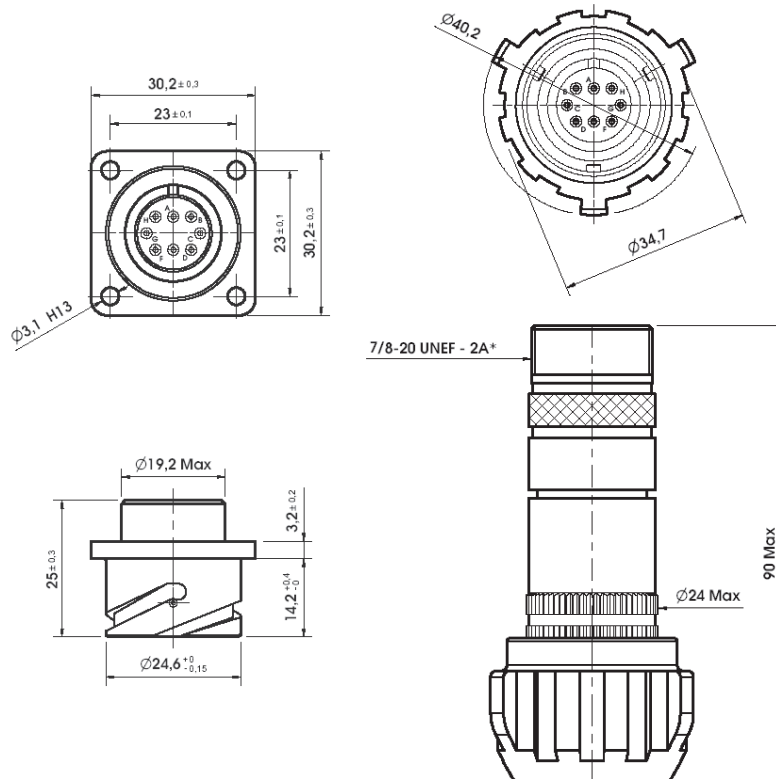


La soluzione affidabile per le trasmissioni con cavi LAN categoria 5E o 6 in applicazioni ferroviarie.

- Ingombro ridotto
- Accoppiamento a baionetta
- Tenuta stagna IP67 (a connettori accoppiati)
- Resistenza a vibrazioni e urti
- Collegamento ai moderni sistemi di protezione cavo
- Predisposto per accettare ogni tipo di schermatura
- Materiali e trattamenti conformi agli attuali standard per ferrovia
- Testato rispetto agli standard normalmente richiesti
- Inserti per 2 o 4 coppie con o senza schermatura esterna

EVBS is a new reliable solution for data transmission through LAN 5E or 6 cat. cables in railways applications.

- *Reduced overall dimensions*
- *Bayonet coupling*
- *IP67 water resistance (mated connectors)*
- *Vibration and shock resistant*
- *Easy connection to the most common updated conduit systems*
- *Arranged for any shielding requirement*
- *Materials and finishes comply the updated requirements for railways applications*
- *Tested according to standard requirements*
- *Insert arrangements available for 2 or 4 twisted pairs with or w/out shielding*



Caratteristiche serie:

- contatti a crimpare dorati
- continuità di schermo
- ghiera ricoperta in gomma
- trattamento conduttivo

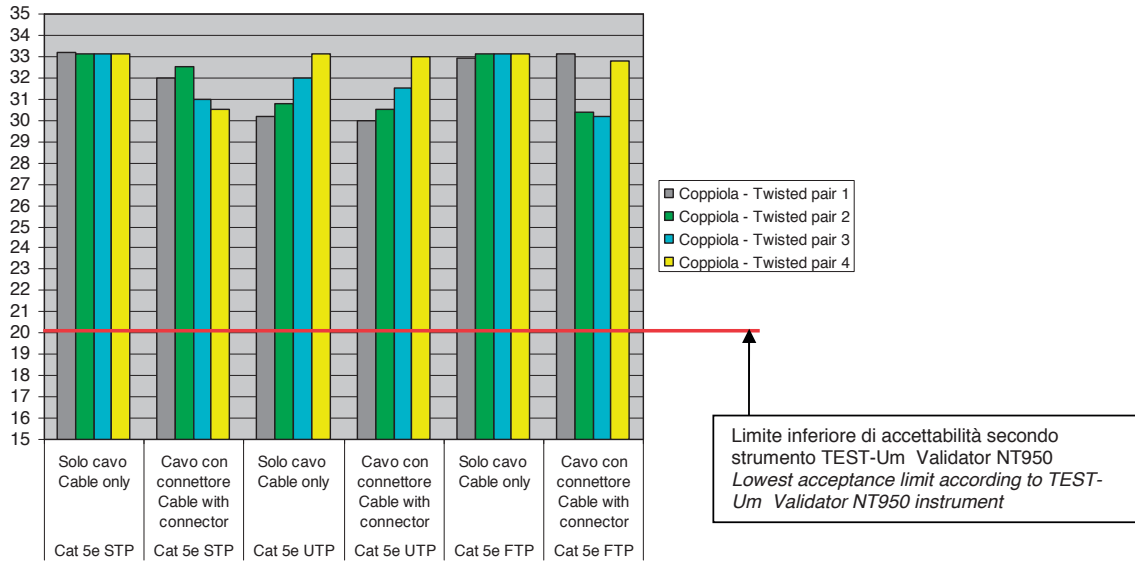
Series characteristics:

- gold plated crimp contacts
- shield continuity
- rubber coated coupling nut
- conductive plating

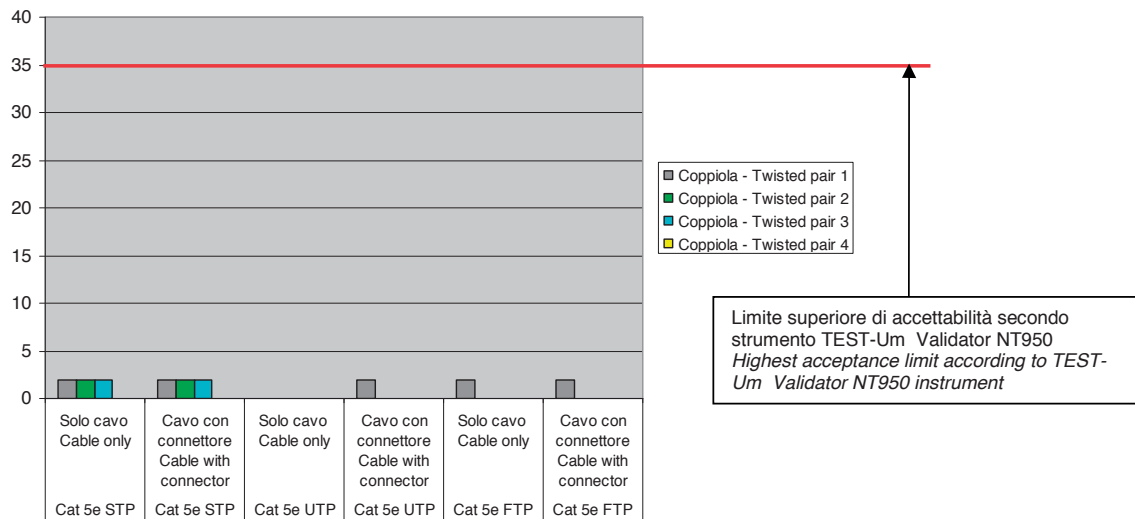
Dati rilevati su connettore a 8 poli NON schermato:

Below data concern an unshielded 8 poles connector:

SNR



SKEW

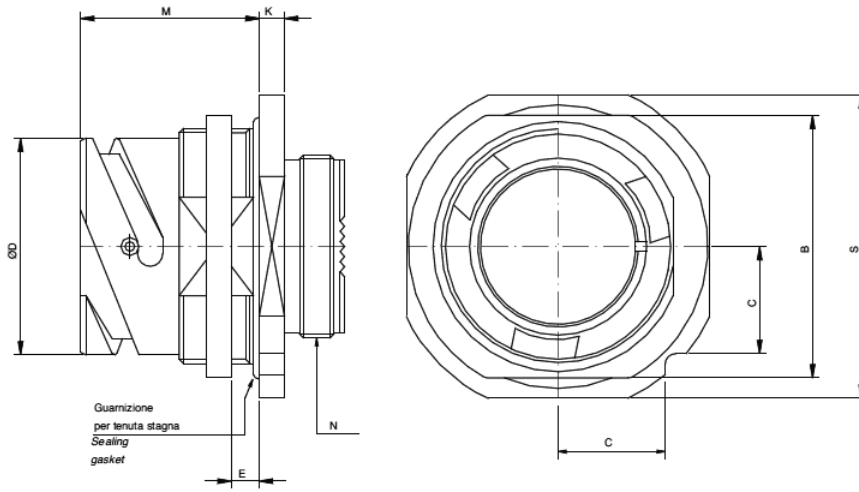


BERT

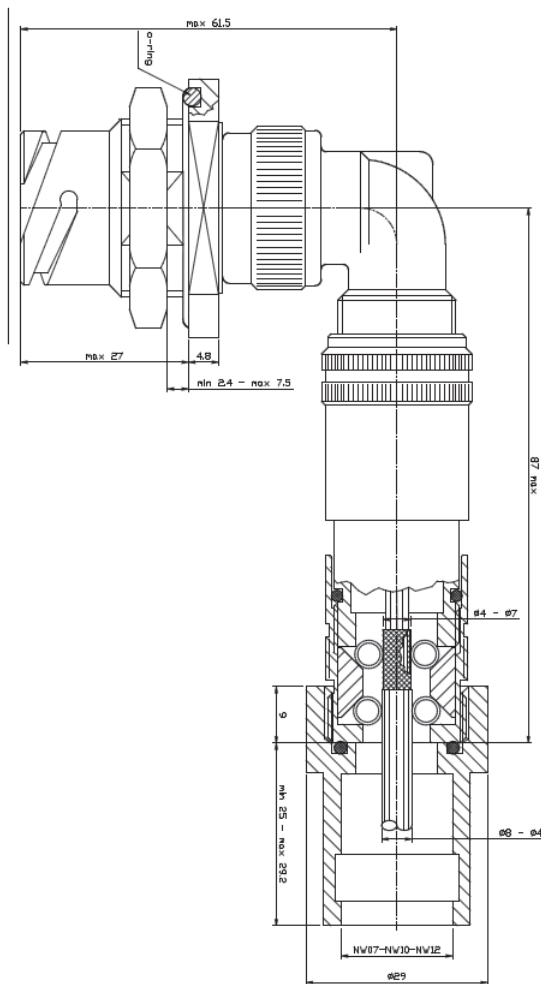
0 errori – riscontrato con qualsiasi tipo di cavo

0 mistakes - with any cable

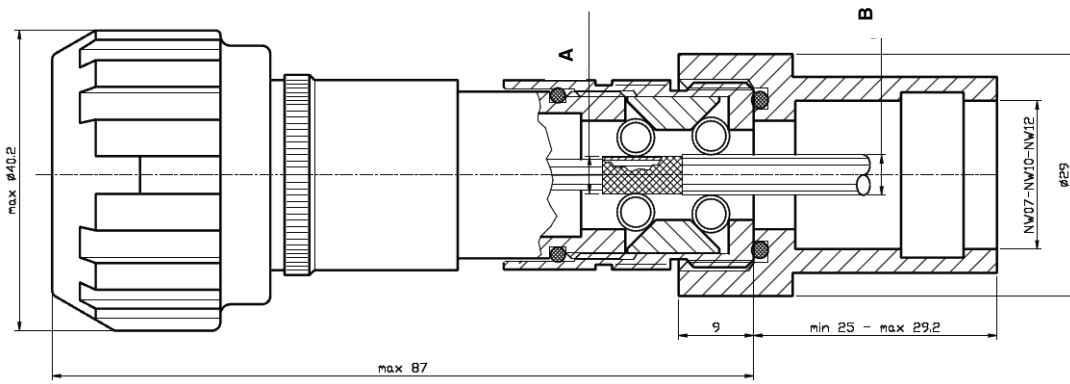
Jam nut receptacle thread post



Jam nut receptacle thread post with 90° elbow

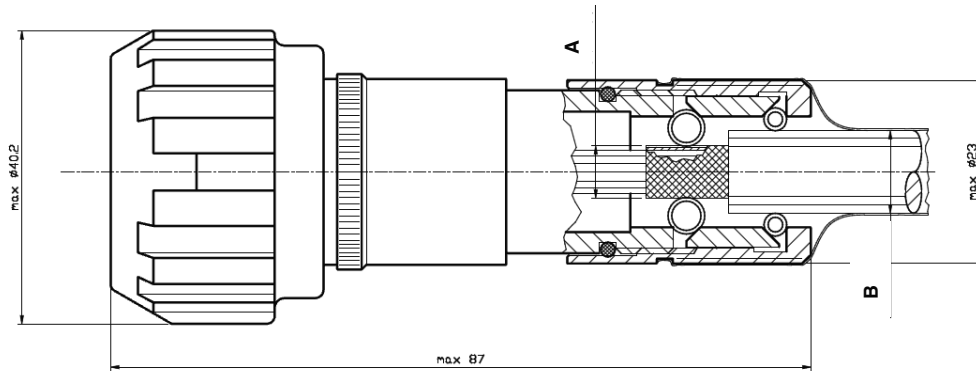


Conduit adapter backshell



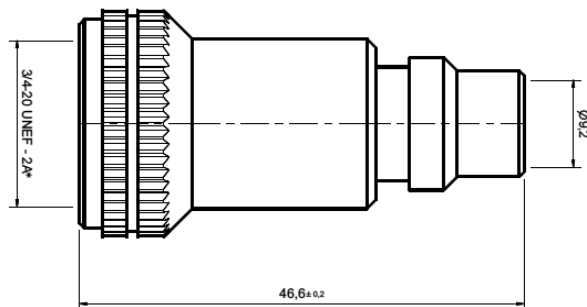
Backshell Type	A(shielding)	B (outside cable diameter)	Backshell Thread
P1	5.9	8-4	7/8" 20UNEF 2°
P2	5.9	10-5	7/8" 20UNEF 2°

Heat shrinkable sleeve adapter backshell



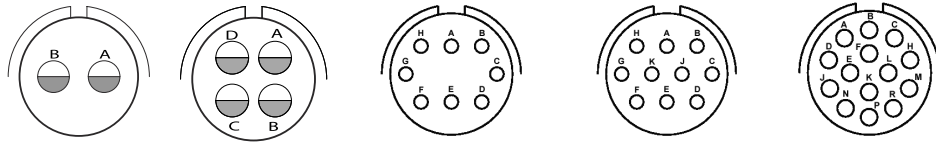
Backshell Type	A (shielding)	B (outside cable diameter)	Backshell Thread
S1	5.9	13-8.5	7/8" 20UNEF 2°

Crimp backshells



Backshell Type	A(shielding)
C1	9.2
C2	5.9

Available arrangement



ARRANGEMENT	14S-9	14S-2	14SZ8	14SZ10	14SZ14
No. of contacts	2	4	8	10	14
Contact size	16S	16S	20	20	20

Part number creation

Serie	Type	Arrangement	Contact Type	backshell	Plating
EVBS	6	14S-2	P	C1	F16

Serie	
EVBS	Standard
RF EVBS	Flame retardant rubber
Type	
2	Front mount receptacle
30	Rear mount receptacle threaded post
38	Rear mount receptacle with 90°elbow <i>(on request)</i>
70	Jam nut receptacle thread post <i>(on request)</i>
78	Jam nut receptacle thread post with 90°elbow <i>(on request)</i>
6	Plug with inline backshell
8	Plug with 90°backshell <i>(on request)</i>
Arrangement	
14S-9	2 contacts size 16S
14S-2	4 contacts size 16S
14SZ8	8 contact size 20
14SZ10	10 contacts size 20
14SZ14	14 contacts size 20
Contact type	
P	Pin contact
S	Socket contacts
Backshell	Mandatory for 38 78 6 8 types
P1	Cable Overall diameter 8-4mm
P2	Cable Overall diameter 10-5mm
S1	Cable Overall diameter 13-8.5
C1	Pass trough hole 9mm
C2	Pass trough hole 5mm
Plating	
F5:	Nichelatura chimica / <i>Electroless nichel</i>
F7:	Verniciatura nera / <i>Black epoxy varnish</i>
F16:	CCF-black passivation

SICUREZZA

Informazioni per l'impiego del prodotto nei limiti di sicurezza

Per poter utilizzare con i necessari requisiti di sicurezza i connettori elettrici descritti nel presente catalogo consigliamo di osservare i seguenti criteri:

- utilizzare i connettori ed i cavi connessi all'interno dei loro limiti elettrici ed ambientali
- osservare le caratteristiche di ciascuna versione (guscio, classe e tipo di ritenzione cavo) e scegliere accuratamente il connettore in modo che esso sia adeguato all'impiego progettato
- curare che le fasi di cablaggio e di montaggio nell'apparecchiatura o nell'impianto in cui il connettore deve funzionare siano correttamente progettate ed eseguite
- sostituire i connettori danneggiati o contaminati durante il trasporto, lo stoccaggio, il cablaggio o l'utilizzo stesso
- non disaccoppiare mai i connettori quando sono sotto carico
- proteggere sempre dal contatto accidentale le parti del circuito sotto tensione
- verificare sempre il circuito prima di metterlo sotto tensione
- consultate la Van-System in caso di qualsiasi dubbio
- i fattori di sicurezza elettrica sono di responsabilità dell'utilizzatore

La Van-System si riserva il diritto di modificare quanto descritto nel presente catalogo senza avviso preventivo.

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 Van-System if in doubt
- the user must take final responsibility for electrical safety

Van-System reserves the right to amend the specifications of this catalogue without issuing prior notice.



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