

# PRODUCT OVERVIEW

PLANNING, DEVELOPMENT, ENGINEERING, DISTRIBUTION AND MANUFACTURING  
OF ELECTRICAL AND FIBER OPTIC CONNECTORS AND CABLE ASSEMBLIES.





# FIBER OPTIC CONNECTORS



## QMINI

2 & 4 Channel hermaphroditic expanded beam connector. Different shell materials and platings available. Sealed to IP68. Designed to the requirements of MIL-PRF-83526.



## QMICRO

2 & 4 Channel hermaphroditic expanded beam connector in a compact and lightweight housing. Different shell materials and platings available. Sealed to IP68.



## QPLEX

Multichannel (2 – 24 channels) expanded beam connector for ruggedized application. Different shell materials and platings available.



## Q38EB

The connector shells are based on MIL-DTL-38999 Serie III, 1 to 24 Channels in SM and MM available, high mating cycles by touchless easy to clean lens system. Specific configurations or sizes are possible on request.



## QLINK

Versatile hybrid interconnect platform designed for harsh environments. 2 - 30 channel solutions in 10 shell sizes. Threaded, reverse bayonet and push pull couplings with pin & socket or hermaphroditic options. 2,5 mm fiber optic termini (spherical or angled), expanded beam termini, MT ferrules, power/signal copper contacts.



## QFOCA

Hermaphroditic 4 channel & 12 channel tactical connector engineered for harsh environment and military ground tactical applications. The QFOCA 4 channel version is designed to meet the requirements of MIL-PRF-83526/16 & /17 military specifications. Interchangeability to Amphenol TFOCA-II.



## ELIO

Standard butt joint terminus and connector solution recognize in aerospace and military application. ABS 1379 and ABS 1213 qualified. Part of NATO STANAG 4754.



## ELIOBEAM

Expanded beam solution derived from ELIO. It allows optical communication without physical contact. It fits in all ELIO cavities.



## ARINC 801

Standard butt joint terminus and connector solution recognize in aerospace and military application.



## M29504

The M29504/4 and M29504/5 fiber optic terminis offers outstanding optical and mechanical performance. These contacts (available in multimode and singlemode) can be installed in size 16 cavities of VG96912 and MIL-DTL-38999 Series I + III connectors.



## QSPLICE

Ruggedized field splice solution for quick and simple fiber optic repair in the field or can be used to extend the length of a cable for longer unplanned runs.

# MISCELLANEOUS



## Backshells

AS85049 / VG95319-1009 and many other military standard backshells are available in different materials and platings. Band adapter, single cone adapter, strain reliefs, heat shrink adapter in straight or angled versions. Please consult us for customized solutions.



## Tools

We stock M22520 crimp tools and M81969 insertion and extraction tools from different approved manufacturers.



## Cable assemblies

We produce electrical cable assemblies tested and certified to VG 96927-2:2016-09 and VG 96927-2/A:2017-10. The production and quality assurance team are frequently certified (IPC/WHMA-A-620).

We also manufacture a wide range of fiber optic and hybrid cable assemblies / harnesses with or without JOWO product content. The termination of standard M29504, ELIO and ARINC 801 and industrial terminis is our daily business.



## J-Version

Hybrid J-version connectors are zinc-tin coated and they have an electrically conductive shield connection system which fully complies with the values of a cadmium-plated design in terms of corrosion resistance, conductivity and shielding capability. They are RoHS & REACH compliant.



## Protection caps

Metal and POM protection caps are available for all bayonet and threaded coupling military connectors. American and European standards such as 38999, M26482, EN2997, EN3645, VG and many others are covered.



## Fiber inspection and cleaning set for fiber optic connections

Complete inspection and cleaning solution for military and civil fiber optic connectors in a ruggedized STANAG 4280 – DEF-STAN81-41 certified case. Optional with a digital video inspection probe and trolley option.



## CAT 7

The CAT 7 Ethernet cable has the approval VG 95218 T031 standard (Type C001, B001 and C002) for a secure data transmission in defense, marine, aviation and industrial applications. The VG95218 cables are characterized by high flexibility, great diversity and long product lifetime. We have a wide variety of cables in stock.

JOWO stocks VG95218T031B001 cable permanently.



## VG96940 conductive gaskets

Useable with many different VG standard connectors. For frequency ranges from 15kHz to 4 GHz and available for front wall and rear wall square flange receptacles and as well for jam-nut receptacles.



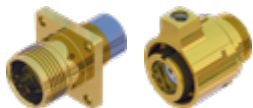
## QGRIP

Ruggedized breakout kit solution for terminating jacked distribution or tactical cables (900µm tight buffered fiber) with up to 24 x ST, SC, LC, or FC connectors.





# SUBSEA CONNECTORS



## 8811

Underwater ATEX and IECEx approved electrical connection system available in 3 shell sizes up to 27 contacts. Marinebronze (standard) and stainless steel housing. 1000m watertight mated / 300m unmated.



## 8810

Wet mateable underwater connection system. Watertight down to 3000m. Up to 68 contacts available in 7 different shell sizes.



## 8811FO

Combination of ruggedized connector series 8811 and the easy to clean advantages of an expanded beam fiber optic insert. 2-8 channel version available. Watertight down to 1000m.



## M

Rugged screw coupling dry mate connection system in high corrosion resistant shells. Watertight down to 2000m (standard) and 10.000m (oil filled version). 5 shell sizes with 37 different contact layouts up to 61 contacts. Derivates available in stainless steel (series U), nickel plated brass (series TP) housing.



## 8819

Push pull connection system. Open face watertight down to 300m thanks to individually sealed O-rings. 1 / 4 / 7 contact version available. Easy assembly, no special tools or potting material required.



## SWIM

Shallow water immersion down to 300m Lightweight PEEK thermoplastic housing. No cathodic delamination and corrosion. Up to 19 contacts available. Temperature range -20°C to +70°C



# VG / MIL CONNECTORS



## VG95328

Circular connector with bayonet coupling, up to 13 A. 9 Shell sizes up to 61 contacts. New VG approved RoHS compliant and corrosion resistant version B (marinebronze) and J (hybrid) available.



## VG96918

Energy supply connector with reverse bayonet locking system. IP68 sealing and 3 shell sizes with layouts or single phase 250V/16A or 3 phase 500V/25A up to 500V/63A and covers all standardized energy supply classes of VDE0620-1. Pilot contact version available. VG approved RoHS compliant and corrosion resistant version B (marinebronze) and C (aluminium, black zinc nickel) available.



## VG96944

Powersafe, circular power connector with threaded coupling based on MIL-DTL-38999 series III from 250V to 500V with pre-mated mass contacts according to DIN EN 61984. Load capacity per contact up to 63A / 500V. 3 shell sizes with pilot contact. Available in marinebronze and aluminium oliv-drab.



## VG95234

Reverse bayonet circular connector, up to 245 A. 47 layouts in 11 shell sizes. New VG approved RoHS compliant and corrosion resistant version B (marinebronze) and J (hybrid) available.



## VG95319 / MIL-DTL-38999 Series III

Circular connectors with threaded coupling and removable crimp contacts, based on MIL-DTL-38999 series III standard. 57 layouts in 9 shell sizes available up to 128 contacts. VG95319-1016 (marinebronze) in progress.



## VG96513 (version B in progress)

Modular rectangular connector accepting 4 inserts according to EN 4165, max. 120 contacts. These inserts are available with contacts from #23 - #8, as well as high-speed, fiber optic and RJ45 modules. More than 230.000 various contact arrangements.



## VG96912

Circular connector with bayonet coupling. 31 layouts in 9 shell sizes up to 128 contacts. Special layout for data transmission up to cat 6A IP68 sealing. New VG approved RoHS compliant and corrosion resistant version B (marinebronze) and J (hybrid) available.



## VG96955

Modular reverse bayonet connector up to 120 contacts. Shell size 32 take up to 4 inserts as per VG96513 for contacts #23 - #8. Fiber optic contacts, RJ45, coax and quadrax contacts available. More than 230.000 various contact arrangements. Version B approval in progress.



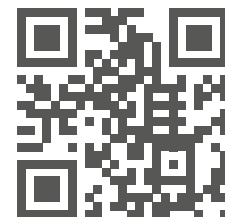
## VG95319-102

TacBeam is a hermaphroditic fiber optic lens connector, intensive to dust and dirt. This connector is qualified as per MIL-DTL-83526/20 and MIL-DTL-83526/21 as well VG95319-100 and VG95319-101 and is thus suitable for outdoor applications.





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