



HARSH ENVIRONMENT FIBER OPTIC CONNECTIVITY

Connectors, Cable Assemblies, & Custom Products



Proudly Designed, Manufactured
& Assembled in the USA



QPC is ISO 9001:2015 and
AS9100D Certified

Military **Aerospace** **Defense** **Industrial** **Oil & Gas** **Mining** **Energy** **Marine** **Entertainment** **Audio** **Broadcast**



QPC CONNECTORS



QLink

- Mass Customizable Fiber Optic / Hybrid Connector System
- 10 x Shell Sizes (13, 15, 17, 19, 21, 23, 25, 27, 29, 31) with Standard / Custom Inserts
- Plug Coupling Ring ODs from 1" (25.4mm) to 2-5/8" (66.7mm)
- 2Ch to 30Ch (Discrete Termini), MT Configurations up to 144Ch
- Threaded, Hermaphroditic, and Reverse Bayonet Coupling Mechanisms
- Plugs, Jam Nut and Flange Mount Receptacles, with and without Backshells
- Cable ODs up to 0.98" (25.0mm)
- 2.5mm Fiber Optic Termini (UPC or APC)
- Expanded Beam Termini
- MT Ferrules with 12 Channels or 24 Channels
- Power / Signal Copper Contacts (Size 16, Size 12, and Size 8)
- Rear Accessory Threads to Accommodate a Variety of Backshells and Conduit Adapters
- 45° and 90° Backshell Options Available for tight clearance applications
- Shell Size 25, 27, 29, and 31 Hermaphroditic Plugs include a Telescoping Coupling Ring with a Locking Feature for easier Demating
- Connector Shells available in Aluminum (Various Finishes) and Stainless Steel
- Sealed to IP68 (Mated or with Dust Cover on)



Q38

- Q38HD: D38999 Style Shell with High Density 1.25mm Physical Contact Termini
 - 4Ch (Shell Size 11)
 - 20Ch (Shell Size 17)
 - 28Ch (Shell Size 19)
 - 48Ch (Shell Size 23)
- Q38EB: D38999 Style Shell with Expanded Beam Inserts with Ball Lenses & Termini
 - 4Ch (1x QMicro in Shell Size 11)
 - 4Ch (1x QMini in Shell Size 13)
 - 12Ch (3x QMicro in Shell Size 23)
- Q38MT: D38999 Style Shell with 12 Channel or 24 Channel MT Ferrules
 - 12/24Ch (1 x MT in Shell Size 11)
 - 24/48Ch (2 x MT in Shell Size 13)
 - 36/72Ch (3 x MT in Shell Size 15)
 - 48/96Ch (4 x MT in Shell Size 17)
- Plugs: Ratcheting Coupling Rings, D38999 Standard Rear Accessory Threads
- Receptacles: Jam Nut and Flange Mount, D38999 Standard Rear Accessory Threads
- Q38Shell Backshells: Straight, 45°, and 90° Backshells with Wedge Strain Reliefs, equipped with Gland, Gland with Bend Limiter, Heat Shrink, or Heat Shrink with Band Clamp Cable Exit Options, supporting Cable ODs from 0.14" (3.6mm) to 0.69" (17.5mm)
- Q38DC Dust Covers: For Q38 Connectors with Crimp, Ring, or Eyelet Attachments
- Connector Shells available in Aluminum (Various Finishes), Stainless Steel, and Marine Bronze (Aluminum Nickel Bronze per C63000)
- Sealed to IP68 (Mated or with Dust Cover on)



QMx

- Miniature Metric Threaded Hybrid Connectors with 8mm - 20mm Interface Threads
- 5 x Shell Sizes (QM08, QM12, QM14, QM16, QM20) with Standard / Custom Inserts
- Plug Coupling Ring ODs from 1/2" (12.7mm) to 1" (25.4mm)
- 1Ch to 12Ch (Discrete Termini), MT Configurations up to 48CH
- Plugs: Small Form Factor, Male Interface Threads, Integrated Epoxy Strain Relief
- Cable ODs up to 0.5" (12.4mm)
- Receptacles: External Mount Jam Nut, Female Interface Threads, No Backshells
- 1.25mm Fiber Optic Termini (UPC or APC) for 900µm or 2mm Simplex Cables
- MT Ferrules with 12 Channels or 24 Channels
- Power / Signal Copper Contacts (Size 28 to Size 16)
- Connector Shells available in Aluminum (Various Finishes) and Stainless Steel
- Sealed to IP68 (Mated or with Dust Cover on)



QPlex

- 2Ch - 24Ch Threaded Modular Expanded Beam Connector System
- Plugs: Three, Four, and Six Insert Positions with Straight Backshells
- Receptacles: Three, Four, and Six Insert Positions, Jam Nut and Flange Mount, with or without Backshells
- Cable ODs: QPlex 3 & QPlex 4 up to 0.45" (11.5mm) / QPlex6 up to 0.69" (17.5mm)
- 2mm Epoxy Cup Termini Available to Terminate 2mm Simplex Cables directly to a Receptacle without a Backshell
- Connector Shells available in Aluminum (Various Finishes) and Stainless Steel
- Sealed to IP68 (Mated or with Dust Cover on)



ELink

- 4Ch / 12Ch / 18Ch / 24Ch Pin & Socket or Hermaphroditic Physical Contact Connectors
- Plugs: Integrated Backshells, Cable Strain Reliefs, and Bend Limiters
- Receptacles: Flange Mount, with and without Backshells
- Cable ODs: 4 Channel up to 0.28" (7.0mm) / 12 - 24 Channel up to 0.37" (9.5mm)
- 2mm / 3mm Crimp Style Termini Available to Terminate 2mm / 3mm Simplex Cables directly to a Receptacle without a Backshell
- Genderless Sealed 2.5mm Termini
- 18Ch / 24Ch Hermaphroditic Plugs include a Telescoping Coupling Ring with a Locking Feature for easier Demating
- Connector Shells available in Aluminum (Various Finishes) and Stainless Steel
- Sealed to IP68 (Mated or with Dust Cover on)



QMini

- 1Ch - 4Ch Hermaphroditic Expanded Beam Connector System
- Plugs: With and without Rubber Grip, with Straight, 45°, or 90° Backshells
- Receptacles: Jam Nut, Flange Mount, and XLR Compatible Flange Mount, with or without Backshells
- QMini to LC Adapter (QMini Receptacle with LC Duplex Interface on the back)
- Standard Cable ODs up to 0.29" (7.5mm), Heat Shrink Option up to 0.41" (10.5mm)
- 2mm Crimp Style or 2mm Epoxy Cup Termini Available to Terminate 2mm Simplex Cables directly to a Receptacle without a Backshell
- Designed to MIL-DTL-83526/20 (Plug) & MIL-DTL-83526/21 (Jam Nut Receptacle)
- Intermateability: Tyco Pro Beam Jr., Amphenol TACBeam, Glenair GMA, Stratos HMA, Fibreco Junior, DiGiCo Compatible
- Connector Shells available in Aluminum (Various Finishes) and Stainless Steel
- Sealed to IP68 (Mated or with Dust Cover on)



QMicro

- 1Ch - 4Ch Hermaphroditic Expanded Beam Connector System
- Plugs: With and without Rubber Grip, with Straight, 45°, or 90° Backshells
- Receptacles: Jam Nut, Flange Mount, and XLR Compatible Flange Mount, with or without Backshells
- QMicro to LC Adapter (QMicro Receptacle with LC Duplex Interface on the back)
- Standard Cable ODs up to 0.29" (7.5mm), Heat Shrink Option up to 0.37" (9.5mm)
- 2mm Epoxy Cup Termini Available to Terminate 2mm Simplex Cables directly to a Receptacle without a Backshell
- Intermateability: Tyco Pro Beam Mini, Stratos HMC, Fibreco Mini 2, Telecast MX
- Low Profile Receptacle Backshell Available for 2mm Simplex Cables
- Connector Shells available in Aluminum (Various Finishes) and Stainless Steel
- Sealed to IP68 (Mated or with Dust Cover on)



QSeal & QLine

- 2Ch / 4Ch Pin & Socket Push-Pull Physical Contact Connector System
- Plugs: With and without Rubber Grip, Straight or 90° Backshell
- Receptacles: XLR Compatible Flange Mount, with direct LC Duplex Connection
- Cable ODs: Plugs accept up to 0.41" (10.5mm) to accommodate Armored Cable
- Intermateability: Neutrik opticalCON Duo (2Ch Fiber connectivity only, QPC's Plug does not have copper contacts and will always mate with Neutrik's Receptacle. Neutrik's Plug will mate with QPC's Receptacle if the copper contacts are not installed) and Neutrik opticalCON Quad (4Ch version does not have an option for copper contacts, so there are no compatibility issues).
- QLine Adapter allows Plug to Plug Connections in longer systems
- Connector Shells available in Aluminum with Black Hard Anodize Finish
- Sealed to IP67 (Mated or with Dust Cover on)



QFoca & QDrive

- 4Ch - 24Ch Hermaphroditic Physical Contact Connector System
- Plug Coupling Ring ODs: 1-1/16" (27.0mm) or 1-5/8" (41.3mm)
- Available with Molded Boots (QFoca) or Wire Mesh Cable Grip Options (QFoca-G1)
- Receptacles: Jam Nut and Flange Mount, Int. / Ext. Mount, with or without Backshells
- Cable ODs: 1-1/16" Shell up to 0.61" (15.5mm) / 1-5/8" Shell up to 0.98" (25.0mm)
- 4Ch version designed to MIL-DTL-83526/16 (Plug) & MIL-DTL-83526/17 (Jam Nut Rec.)
- QFoca Intermateability (4/12 Ch): Amphenol TFOCA-II, OCC TFOCA 2, Stran TFOCA GenX
- QFoca-EZ Intermateability (4/6/12/24 Ch): OCC EZ Mate
- QFoca3 Intermateability (6/24 Ch): Amphenol TFOCA-III
- QDrive Intermateability (8xFiber + 4x12AWG): Amphenol RigLinQ, Stran GenX Hybrid
- Connector Shells available in Aluminum (Various Finishes), Brass, and Stainless Steel
- Sealed to IP68 (Mated or with Dust Cover on)



QBeam

- 2Ch & 4Ch Hermaphroditic Twist-Lock Expanded Beam / Lensed Connector System
- Plug & Receptacle: Aluminum / Stainless Steel Construction
- Receptacles: Jam Nut and Flange Mount, with Low Profile Backshells to accommodate Jacketed Cable or 4 x 2mm / 3mm Simplex Cables
- Multimode Fiber (62.5/125µm & 50/125µm)
- Cable ODs up to 0.26" (6.5mm)
- Intermateability: Amphenol CTOS 976 Series Product Line
- Sealed to IP68 (Mated or with Dust Cover on)



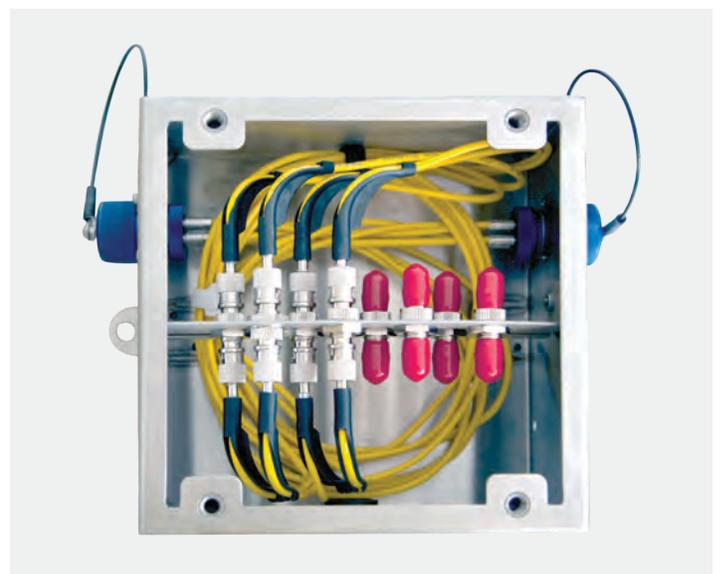
QGrip

- 2Ch - 24Ch Ruggedized Cable Furcation Kit
- Body: Black Hard Anodized Machined Aluminum
- Legs: 3mm Color-Coded Subunits Designed to Accept 900µm Buffered Fiber
- Cable ODs up to 0.37" (9.5mm)
- Cable Retention: Brass Crimps or Wedge Style Strain Reliefs Available
- Available with Optional Mesh Pulling Sock
- Available with Custom Laser Marking / OEM Private Labeling
- Sealed to IP50

QPC CABLE ASSEMBLIES

QPC Fiber Optic manufactures a wide range of fiber optic and hybrid cable assemblies / harnesses, with or without QPC product content. We draw from many decades of experience to help our customers choose the appropriate connectors, cable, fiber, and accessories to design custom cable assemblies. We also build customer specified cable assemblies to their prints. QPC documents each custom cable assembly we build with a Product Definition Package, which includes a detailed drawing with a bill of materials, as well as labeling, testing, and packaging requirements to ensure consistency from build to build. The capabilities below are constantly expanding based on technology improvements and market demands.

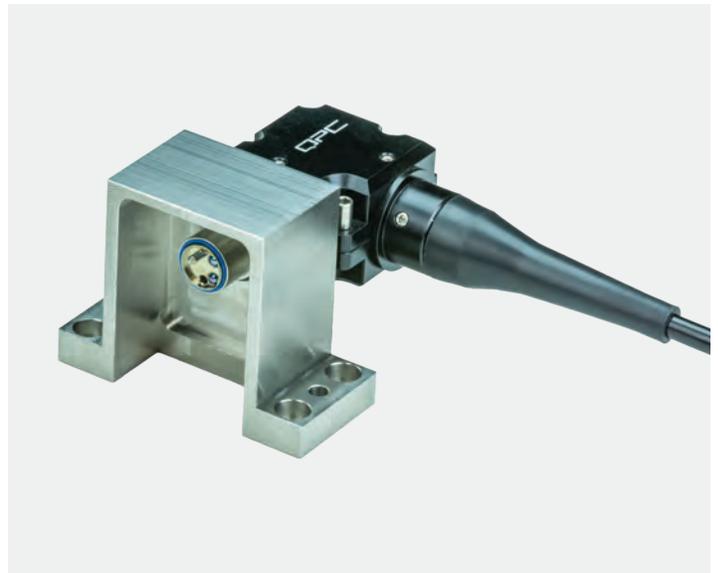
- **Connector / Termini Types:** All QPC Connectors, Mil-Spec (M28876 Shipboard, D38999 Aerospace, M83526 Tactical, M29504 Termini, M83522 Mil-Spec ST), ARINC 800 Series, Tyco / Deutsch MC3 MKII, Amphenol, Souriau, Glenair, TE Connectivity, LC, ST, SC, FC (UPC and APC)
 - **Cable Types:** Mil-Spec (M85045), Tactical, Aerospace, Shipboard, Breakout, Distribution, Armored, Micro-Armored, Rodent Deterrent, ABS Approved, IEC 60332-1 Flame Retardant, MSHA Rated, FT4 / FT6 Rated, Hybrid (Fiber / Copper), Conduit Systems, and Specialty Cables
 - **Fiber Types:** Single Mode (9/125 μ m), OM2 / OM3 / OM4 / OM5 - Graded Index Multimode (50/125 μ m), OM1 - Graded Index Multimode (62.5/125 μ m), Graded Index Multimode (100/140 μ m), Polarization Maintaining (PM) Fiber, and Specialty Fibers
 - **Accessories:** Optical Circuit Elements (Splitters / Couplers / Circulators / Switches), Integrated Hardware (Wall or Rack Mount Patch Panels), Deployment Reels, Breakouts, and Pulling Grips
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QPC CUSTOM PRODUCTS

QPC Fiber Optic specializes in solving our customers' most difficult optical connectivity challenges by designing and manufacturing unique, application specific, custom fiber optic connectors and associated hardware. We use a four-stage Product Development Process with dedicated Project Engineers to transform ideas into concept sketches, engineering designs, prototypes, and production parts. QPC has in-house CNC machining that enables us to produce low initial volumes for proof of concept and system testing. We offer industry leading service, performance, and quality from the initial point of contact through final product delivery.

- **Connector Types:** Circular, Rectangular, Rack & Panel, Blind Mate, Locking, Cable Release, Break Away, High Density, and Modular Designs
 - **Termini / Contacts:** Pin & Socket or Genderless Fiber Optic Termini with Spherical or Angled Polish, Expanded Beam Inserts or Individual Termini, Multichannel MT Ferrules, Power / Signal Copper Pin & Socket Contacts, Printed Circuit Board / PC Tail Contacts, and RF / Coax Contacts
 - **Backshell / Strain Relief / Cable Exit:** Designed to accommodate and retain nearly any type of Cable (Single / Multiple) or Conduit with Crimp or Wedge Strain Reliefs, Cable Exits can use Heat Shrink, Band Clamps, Cable Glands, and / or Boots with Straight, 45°, or 90° Cable Orientations
 - **Connector / Insert Materials:** Aluminum, Stainless Steel, Brass, Bronze, Ultem, Delrin, and Specialty Alloys / Composites with Various Conductive and Non-Conductive Plating Options Available
 - **Environmental Considerations:** Size, Weight, Temperature, Vibration, Shock, Sealing, Corrosion, Electromagnetic Interference (EMI), and Explosion Rating - QPC verifies internally or in partnership with third-party testing laboratories
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QPC COMPANY PROFILE

QPC Fiber Optic is an optical technology company headquartered in Southern California with locations in Laguna Niguel, California (Design Engineering, CNC Machining, Connectors, and Cable Assemblies) and Eastlake, Ohio (Advanced / Automated CNC Machining), serving customers worldwide since 1999. We specialize in designing and manufacturing fiber optic connectors, fiber optic cable assemblies, and custom fiber optic products for use in harsh environments. Our connector product line portfolio includes QPC's proprietary connector lines, industry recognized standards, modified standards, and engineered customs. We are one of the few interconnect companies in our industry that welcomes low initial volume custom product development projects. Our team is able to draw upon QPC's extensive design experience and leverage our in-house manufacturing capabilities to allow us to specify, design, prototype, and manufacture solutions with industry leading turnaround times.

QPC's customer base is 1st and 2nd Tier Defense System Integrators, Original Equipment Manufacturers (OEMs), Entertainment Operators, and Cable Assembly / Harness Manufacturers. QPC's business is diverse, serving Military / Aerospace / Defense (Air, Land, and Sea), Industrial (Energy, Oil & Gas, Mining, Marine, and Scientific), and Entertainment (Pro-Audio and Mobile Broadcast). QPC has a global network of Sales Partners and Value Add Re-Sellers to assure our customers have local points of contact and multiple support options.

QPC's Quality Management System is ISO 9001:2015 and AS9100D Certified. In addition, QPC is ITAR Registered with the US Department of State, and QPC's Information Technology Systems are DFARS Clause 252.204-7012 compliant and meet the requirements of NIST SP 800-171.

