Fiber Optic Reflection Probes

Custom-Engineered Fiber Optic Probes for Reflection, Backscatter and Spectroscopic Measurements



SQS designs and manufactures custom fiber optic reflection probes according to specific optical and mechanical requirements. Probe configurations can be adapted to the required fiber type, fiber count, core diameter, mapping, optical geometry, interfaces and mechanical dimensions.

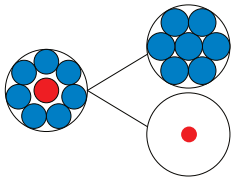
Applications

- Spectroscopy
- Reflektance & Backscatter Measurements
- Color & Material Analysis
- Surface Inspection & Characterization
- UV & Custom Optical Measurement Systems

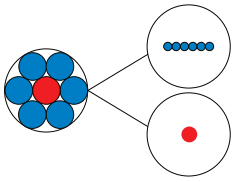
Parameter	Specification
Fiber Configuration	Fully customizable; bifurcated, trifurcated, and other customer-specific configurations
Fiber Type	Multimode; Low-OH, High-OH, solarization-resistant, and other application-specific options
Core Diameter	50–1000 µm
Fiber Mapping	Customer-defined fiber position, sequence, and arrangement
Fiber Geometry (Common or Split Ends)	Round, linear, and custom configurations
Interface	SMA905, FC/PC, custom connector, or probe interface
Ferrule / Interface Material	Stainless steel, glass, ceramic, and other application-specific materials
End Face	Standard or optional ARC coating
Protective Tubing	Stainless steel, PVC, PTFE, and custom options
Environmental Compatibility	Standard, UHV-compatible, and high-temperature versions available
Fan-Out Box	Metal cylinder, plastic, or heat-shrinkable molded shapes
Assembly Length	Customer-specified

Custom Fiber Configurations

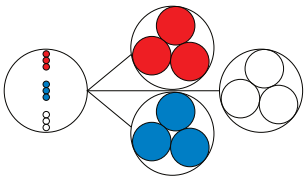
8ch. Circular → Circular + Single



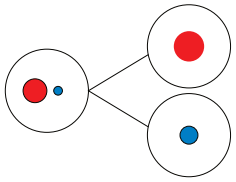
7ch. Circular → Linear + Single



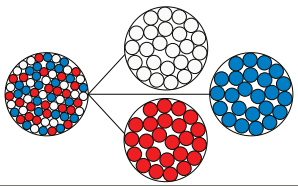
12ch. Linear → 3x Circular



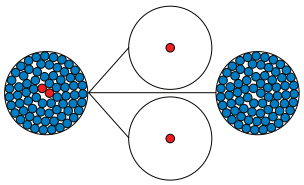
2ch. Circular → 2x Single



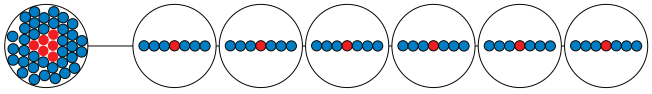
72ch Circular → 3x Circular



78ch Circular → Circular + 2x Single

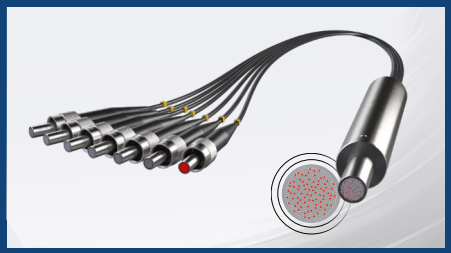


42ch. Circular → 6x Linear



Fiber Optic Reflection Probes - Customer Application







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