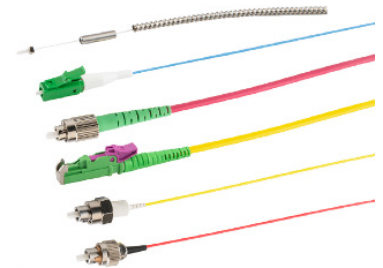


## Multimode Cables

- Any combination of connectors, fibers, and cables
- Proprietary epoxy curing for surviving harsh environments
- Built in the USA with quality components
- ISO 9001 Certified
- 100% Testing
  - Insertion Loss
  - Return Loss
  - Endface Geometry
  - Polish Quality



### Connectors

Connectors	E-2000	FC, QFC	LC	MU	SC	SMA	ST	1.25mm Ferrule	1.8mm Capillary	2.5mm Ferrule	3.2mm Ferrule
Polish	APC, UPC	APC, UPC, Flat Angle	APC, UPC	APC, UPC	APC, UPC	UPC	UPC	APC, UPC	APC, UPC	APC, UPC	APC, UPC
Type	Push/Pull	Screw on	Push/Pull	Push/Pull	Push/Pull	Screw on	Bayonet	Ceramic Stainless	Borosilicate	Ceramic Stainless Borosilicate	Ceramic Stainless

### Fibers

Typical values

Fiber Wavelength (nm)	320	405	460	630	780	980	1060 Flex	1060	1550	2000
	320-450	405-525	450-600	600-770	780-970	980-160	980-1550	980-1600	1310-1625	1700-2100
Cut-Off (nm)	<300	350-390	390-450	540-600	700-760	890-950	890-970	870-970	<1260	<1700
Mode Field (um)	≈3.0	3.5@515	3.5@515	4.0@630	5.0@850	4.2@980 6.8@1550	4.0@980 6.3@1550	5.9@980 9.5@1550	9.2@1310 10.4@1550	13@1996
Attenuation (dB/km)	<200@320 <70@400	30@515 12@630	30@515 12@630	12@630	4.0@780 3.5@850	3.5@980	2.5@980 1.0@1550	2.1@980 1.5@1060	0.32@1310 0.18@1550	3db@125M
Numerical Aperture	0.12	0.12	0.13	0.13	0.13	0.20	0.20	0.14	0.14	NA

### Cables

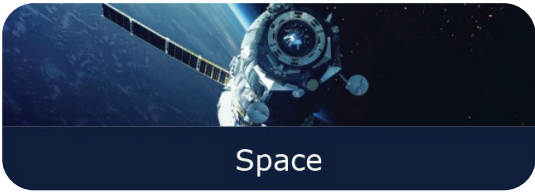
OD	900um	1.6mm	2mm	3mm	3.8mm	5mm	5.8mm	7mm
Jacket Material	Hytrel, PVC, PVDF, PTFE	PVC	PVC PVDF	PVC PVDF	Stainless	Stainless Plastic	Stainless w/ Silicone	Stainless
Strength Member	None	Kevlar						

### Performance

Wavelength	405	460	630	780	850	980	1060	1310	1550
Insertion Loss (dB)	≤1.5 (≤1.0 Avail)	≤1.15 (≤0.75 Avail)	≤0.9 (≤0.55 Avail)	≤0.75 (≤0.45 Avail)	≤0.60 (≤0.35 Avail)	≤0.40 (≤0.20 Avail)	≤0.20 (≤0.10 Avail)	≤0.20 (≤0.10 Avail)	≤0.20 (≤0.10 Avail)
Return Loss (dB)	APC ≥60, UPC ≥50*								

\* Return loss on 320 to 1060nm fiber is measured at 1310nm.

\*\* Insertion and return loss specifications do not apply to SMA connectors



## Industries We Serve

At Impact Electronic Solutions, we offer cutting-edge prototype and full-turnkey production services, providing unparalleled innovation and seamless solutions to meet your needs.

Our expertise spans highly regulated and mission-critical environments. We deliver complex electronic, fiber optic, and electromechanical products with exceptional quality and reliability. From product development to full-scale manufacturing, we prioritize customer-centric solutions and support groundbreaking innovations.

With extensive experience, we ensure success across diverse industries by consistently meeting rigorous standards and exceeding expectations.

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## About Us

We are a dynamic team dedicated to delivering innovative electronic design and manufacturing services that consistently outperform industry standards.

Our headquarters are in the Pacific Northwest, and the Impact ES network spans five key locations across the U.S.:

- Clearwater, Florida
- Cranston, Rhode Island
- Grants Pass, Oregon
- Vancouver, Washington
- Ventura, California

Our facilities have been recognized for excellence by numerous corporations, organizations, and publications, showcasing our commitment to quality, precision, and customer satisfaction nationwide.

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## Fiber Optic Cables and Assemblies Certifications



NASA 8739.5

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