Polarization Maintaining Cables

A subsidiary of impact | 5

• Any combination of connectors, fibers, and cables

Coastal

Connections

- IL and ER testing at the design wavelength
- Proprietary epoxy curing for high exctinction ratios
- · Built in the USA with quality components
- ISO 9001 Certified

- 100% Testing
 - Insertion Loss
 - Return Loss
 - Extinction Ratio
 - Endface Geometry
 - Polish Quality



Connectors

Connectors	ESCC 3420	FC, QFC	LC	sc	1.25mm Ferrule	1.8mm Capillary	2.5mm Ferrule		
Polish	AP, UPC	APC, UPC, Flat Angle	APC, UPC						
Туре	Screw on	Screw on	Push/Pull	Push/Pull	Ceramic Stainless	Borosilicate	Ceramic Stainless Borosilicate		

Fibers

Fibers Typical vi											pical values
Fiber Wavelength	350	400	RGB	480	630	850	980	LMA 10	LMA 15	1300	1550
Cut-Off (nm)	290-340	330-400	360-405	400-470	520-620	650-800	870-950	500	600	1130-1270	1300-1440
Mode Field (µm)	2.3	3.5	2.5-3.3	4.0	4.5	5.5	6.6	8.5	12.5	9.0	10.5
Attenuation (dB/km)	N/A	≤50	≤30-≤50	≤30	≤12	≤3.0	≤2.5	≤20	≤20	≤1.0	≤0.5
Numerical Aperture	0.076	0.070	0.075	0.070	0.085	0.100	0.100	0.04	0.08	0.10	0.10

Cables

OD	900µm	1.6mm	2mm	3mm		
Jacket Material	Hytrel, PVC, PVDF, PTFE, PEEK	PVC	PVC, PVDF, Polyurethane, ETFE/PEEK	PVC, PVDF, Polyurethane, Stainless		
Stength 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 (≤0.25 Avail) (≤0.10 Avail)		Avail)		
Return Loss (dB)		≥60* ≥45*	APC ≥65* UPC ≥50*							
Extinction Ratio (dB)		≥25 (30 Avail.)								
Key to Fiber Alignment	+/- 2°									

* Return loss on 400 to 1060nm fiber is measured at 1310nm







Commercial & Industrial

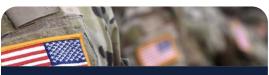
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Fiber Optic Cables and Assemblies Certifications





NASA 8739.5

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