

# Glass Optical Fiber Cable

Ruggedized Data Transmission



## Performance Characteristics

Robust against electromagnetic interference (EMI)

High data transmission rates feasible (up to 1 Gbit/s)

Large end face for ease of coupling and flexibility in connector design

High strand count multi-core cable provides redundancy for critical applications by preventing interruption of data flow

Hot fused end faces provide hermetic and face and higher optical transmission

Thermally stable over high temperature range

Negligible optical attenuation over short distances typical in vehicle and soldier-worn data systems

Easily integrated into hybrid harnesses with conventional conductors

Compatible with LED and VCSEL optical transceivers

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## Bundle Specifications

Name of Fiber	G2
Diameter Optical Surface	Ø 1.0 mm manufactured
Diameter Single Fiber	Ø 53 ± 4 µm
Numerical Aperture	0.5
Attenuation at 650 nm	<250 dB / km
Attenuation at 850 nm	<150 dB/km
Minimum Bending Radius (Long Term)	5 mm
Jacket Diameter	Ø 2.3 ± 0.1 mm (others on request)
Temperature Resistance	-40 °C to +125 °C (-40 °F to + 157 °F)
Analog Bandwidth	Up to 500 MHz
Digital Bandwidth	Up to 2x analog bandwidth
Chemical Resistance	Oil, Grease, bases, acid, fuel, water and PVD
Burning Behavior	Flame Retardant / Self-extinguishing
Delivery	Spool, Barrel with max. 3.000 m
Color of Cable	Blue, Black, (Others upon request)
Maximum Tensile Force	>60 N (IEC 793 2A4)
Weight of Cable	5.8 g/m
Attenuation / Coupling	< 2.5 db / coupling including misalignment



Photo Courtesy of Department of Defense

Photo Courtesy of US Marines



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