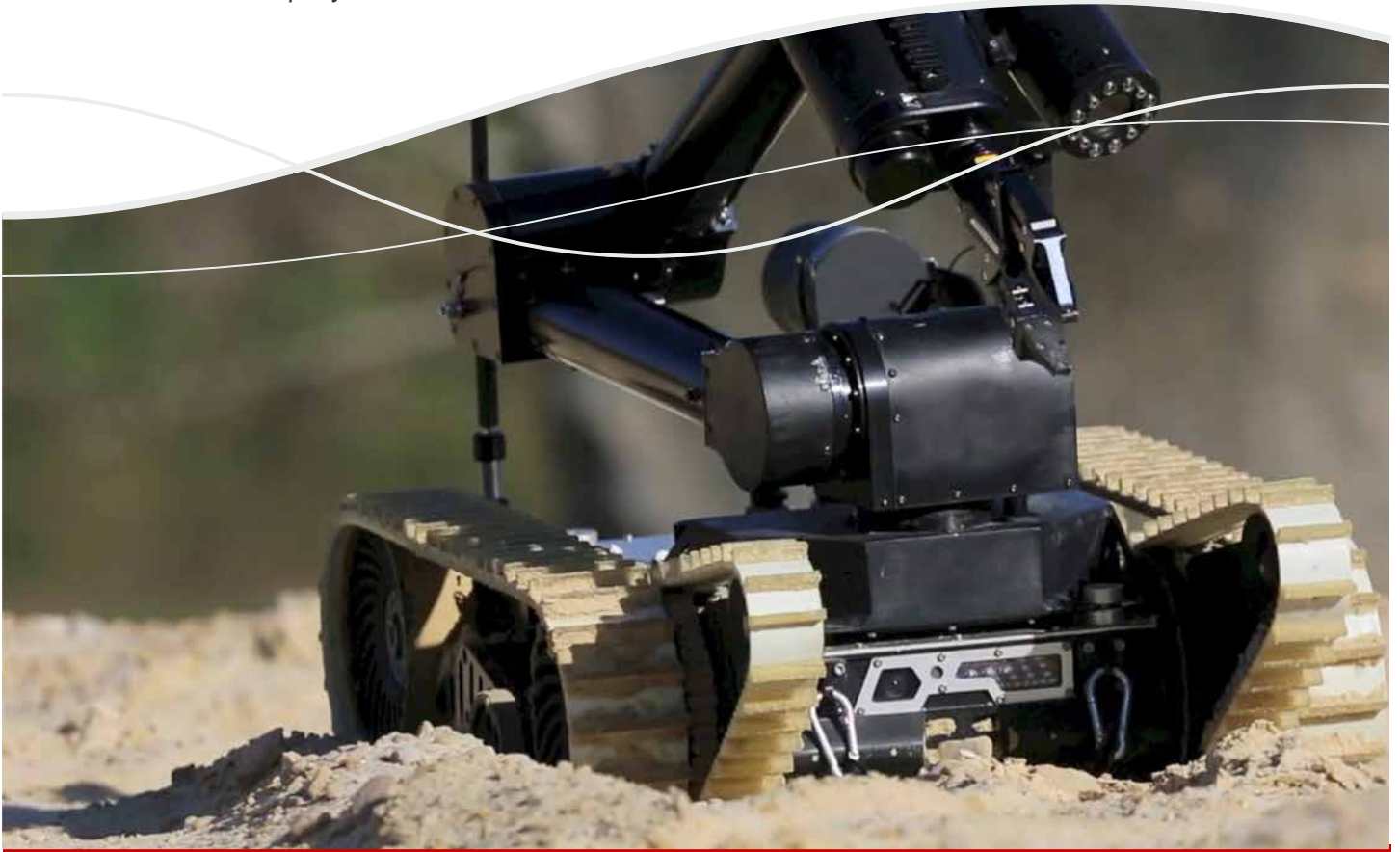




A Furukawa Company

µlinx® Fiber Optic Cables

Tether



www.ofsoptics.com

FIBER OPTIC TETHER SOLUTIONS FOR UNMANNED VEHICLES

- High strength
- Light weight
- Abrasion resistant
- Flexible



SEDI-ATI detwisted fiber optic coil packages for UGV (Unmanned Ground Vehicles) fiber tether allowing video and control communications. ROV (Remotely Operated Vehicles) spools also available.

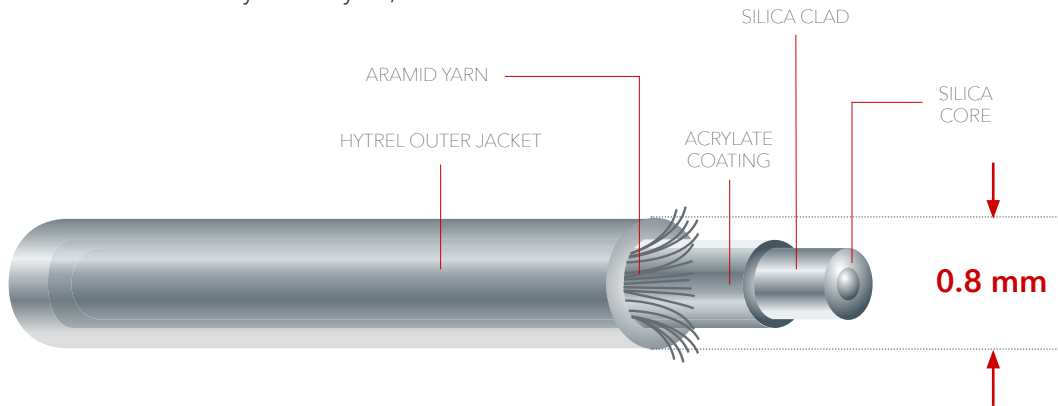
OFS µlinx fiber optic cable inside.

μlinx® Fiber Optic Cables

Tether

OFS Micro-Links (μlinx) Tether Fiber Optic Cables are designed to be high strength, low weight, abrasion resistant, and flexible, making them ideal for use as unmanned vehicle tethers. With an OD of only 0.8 mm (0.03") they are the approximate thickness of a credit card yet contain aramid strength members for enhanced performance in tactical applications. Constructed with acrylate-coated fibers followed by aramid yarn, the outer

jacket is an abrasion resistant Hytrel® that makes for a cable that is both highly durable and flexible. This small but tough micro cable is available with single-mode, 50 μm OM4 multimode, or 62.5 μm multimode fiber. For high temp applications, see our μlinx Avionics Fiber Optic Cables.



| μlinx Tether Cables | | | |
|------------------------------|---|---|---|
| PRODUCT NAME | μlinx SM - Tether | μlinx 50 OM4 - Tether | μlinx 62.5 - Tether |
| Core size | NA | 50 μm | 62.5 μm |
| Mode Field Diameter | 8.5 - 9.3 μm @ 1310 nm 9.5 - 10.5 μm @ 1550 nm | NA | NA |
| Attenuation | ≤ 1.0 dB/km @ 1310 nm ≤ 0.8 dB/km @ 1550 nm | ≤ 5.0 dB/km @ 850 nm ≤ 3.0 dB/km @ 1300 nm | ≤ 5.0 dB/km @ 850 nm ≤ 3.0 dB/km @ 1300 nm |
| Clad/Coating OD, Material | 125/245 μm, Acrylate | 125/245 μm, Acrylate | 125/245 μm, Acrylate |
| Cable Diameter | 0.8 ± 0.05 mm | 0.8 ± 0.05 mm | 0.8 ± 0.05 mm |
| Outer Jacket | Hytrel | Hytrel | Hytrel |
| Strength Member | Aramid yarn | Aramid yarn | Aramid yarn |
| Cable Weight | ≤ 0.7 kg/km | ≤ 0.7 kg/km | ≤ 0.7 kg/km |
| Operating/Storage Temp | -40 to +85 °C | -40 to +85 °C | -40 to +85 °C |
| Min Bend Radius Operation | 8 mm (0.31") | 8 mm (0.31") | 8 mm (0.31") |
| Min Bend Radius Installation | 12 mm (0.47") | 12 mm (0.47") | 12 mm (0.47") |
| Tensile Load Installation | 75N (16.9 lbs) | 75N (16.9 lbs) | 75N (16.9 lbs) |
| Tensile Load Operating | 29N (6.5 lbs) | 29N (6.5 lbs) | 29N (6.5 lbs) |
| Order by Part Number | C24771 | C26491 | C25927 |

Typical Applications: Rough terrain • reliable data link for unmanned vehicles (aerial, ground and underwater).

NOTE: The operating temperature ranges are general guidelines. Consult with our Technical Sales department to determine the optimal coating and jacketing material for your specific application. 1.860.678.6636. Customized designs available upon request.

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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OFS Marketing Communications
Date: 06/19

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