

# Mission Specialist Tether Specifications



VideoRay tether is durable, strong, and constructed to withstand extreme operational conditions. Specifically designed for use with our Mission Specialist line of submersibles, VideoRay tether is available in standard and custom lengths, depending on the needs of the mission.

## Topside and Subsea Battery Power Compatibility

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|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PERFORMANCE (PPT)</b>  | <ul style="list-style-type: none"><li>• OUR MOST VERSATILE TETHER</li><li>• LEAST DRAG OF TOPSIDE POWER TETHERS</li><li>• STANDARD LENGTHS: 40m, 100m, 300m</li></ul>                                                    | <b>Neutral Buoyancy - 635kg Breaking Strength</b><br>60 Mbps - O.D.: 9/10mm - TEMP: -40 - +80C - WEIGHT IN WATER: xxxx<br>Range: 400m TDS Reel or 450m Loose                                      |
| <b>NEUTRAL</b>            | <ul style="list-style-type: none"><li>• LARGER POWER CONDUCTORS THAN PPT</li><li>• MOST BUOYANT TOPSIDE POWER TETHER</li><li>• STANDARD LENGTHS: 40m 100m, 300m</li></ul>                                                | <b>Neutral Buoyancy - 454kg Breaking Strength</b><br>60 Mbps - O.D.: 11.7mm - TEMP: -40 - +80C - WEIGHT IN WATER: xxxx<br>Range: 300m TDS Reel or 400m Loose                                      |
| <b>NEGATIVE</b>           | <ul style="list-style-type: none"><li>• LARGEST POWER CONDUCTORS</li><li>• SMALLEST DIAMETER OF TOPSIDE POWER TETHERS</li><li>• STANDARD LENGTHS: 40m, 100m, 300m</li></ul>                                              | <b>Negative Buoyancy - 454kg Breaking Strength</b><br>60 Mbps - O.D.: 7.6mm - TEMP: -40 - +80C - WEIGHT IN WATER: xxxx<br>Range: 400m TDS Reel or Loose                                           |
| <b>HYBRID FIBER OPTIC</b> | <ul style="list-style-type: none"><li>• LONGEST RANGE OF TOPSIDE POWER TETHERS</li><li>• LARGEST DIAMETER OF TOPSIDE POWER TETHERS</li><li>• 4 x 20 AWG POWER CONDUCTORS</li><li>• G9/125 2 CORE OPTICAL FIBER</li></ul> | <b>Negative Buoyancy - 726kg Breaking Strength</b><br>1 Gbps, 100 Mbps - O.D.: 12/17mm - TEMP: -40/+80C - WEIGHT IN WATER: -8/-10 Kg/Km<br>Range: 500m VR Hybrid Reel or 1.25km Loose/Custom Reel |

## Subsea Battery Power Compatibility

|                      |                                                                                                                                                                               |                                                                                                                                                                                                           |
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| <b>EXPEDITIONARY</b> | <ul style="list-style-type: none"><li>• OUR THINNEST TETHER FOR MINIMUM DRAG</li><li>• MOST BUOYANT TOPSIDE POWER TETHER</li><li>• STANDARD LENGTHS: 40m 100m, 300m</li></ul> | <b>Neutral Buoyancy - 170kg Breaking Strength</b><br>60 Mbps - O.D.: 4.4mm - TEMP: -40/+80C - WEIGHT IN WATER: -2/-3 Kg/Km<br>Range: 550m Expeditionary Reel                                              |
| <b>FIBER OPTIC</b>   | <ul style="list-style-type: none"><li>• OUR LONGEST RANGE TETHER</li><li>• MEETS EXTREME BANDWIDTH DEMANDS</li><li>• G9/125 4 CORE OPTICAL FIBER</li></ul>                    | <b>Neutral Buoyancy - 300kg Breaking Strength</b><br>1 Gbps, 100 Mbps - O.D.: 4.5mm - TEMP: -40/+80C - WEIGHT IN WATER: -2/-3 Kg/Km<br>Range: 500m Expeditionary Reel, 1.5km Fiber Reel or 2km+ Loose/Bag |