

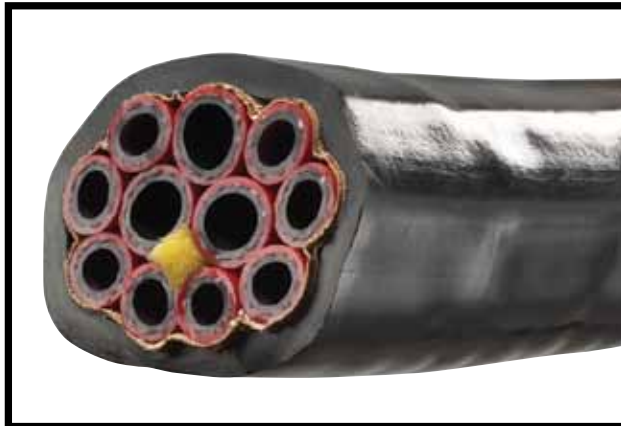
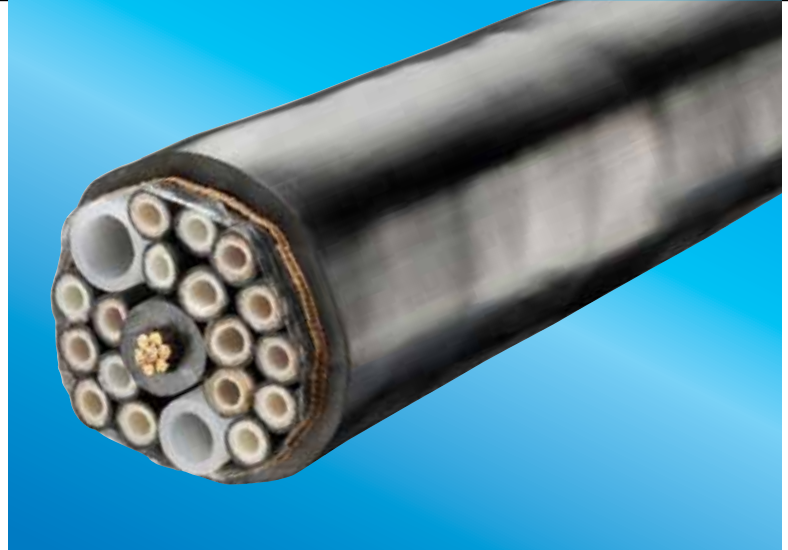


# Kuriyama Oil & Gas Products

## Subsea Umbilicals

### UMBILICALS

- Umbilical's are groups of hoses and sometimes electrical cables, either cabled at (360°) or layered in a round or semi-round configuration.
- The outer wrap (cover) will have a specified Urethane or PVC jacket custom made for the customer's umbilical application.
- At Kuriyama, we continually focus on innovative, cost effective solutions to meet our customer's requirements. We have a team in place with combined experience and success in both hose and umbilical manufacturing to meet your needs.



### Features and Advantages:

- Kuriyama Oil and Gas produces "Umbilicals" that are individually designed to meet or exceed our customer's standards.
- Each hose and jacketing material is carefully evaluated for your project.



### Applications:

- Subsea Umbilicals for diving
- Specialty work over
- Land control BOP
- Beverage tubing Umbilicals

We need just a few questions answered to start the design of your umbilical today.

1. Desired continuous length.
2. Number of individual hoses inside the diameter and working pressure.
3. Electrical specification and outside diameter if included in umbilical.
4. Full understanding of the application and environment the umbilical will be exposed to.

Whatever your application, we will either have a product or make a product to exceed your needs.

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS OR DISCONTINUE PRODUCTS WITHOUT PRIOR NOTICE.

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All Products sold and distributed by Kuriyama of America, Inc. are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or Products for the intended purposes, uses or applications.

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Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

## Limited Warranty

The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. ALL WARRANTY CLAIMS SHALL BE MADE WITHIN SIX (6) MONTHS AFTER SELLER SHIPPED THE PRODUCTS. SELLER'S LIABILITY HEREUNDER IS LIMITED AT SELLER'S EXCLUSIVE DISCRETION, TO 1) THE PURCHASE PRICE OF ANY PRODUCTS PROVING DEFECTIVE; 2) REPAIR OF ANY DEFECTIVE PRODUCT OR PART THEREOF; OR 3) REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART UPON ITS AUTHORIZED RETURN TO SELLER.

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