

# ROV TETHER CABLES



## CONDUCTORS:

Stranded tin copper conductors for flexibility and corrosion resistance. Light weight, low dielectric copolymer insulation with great mechanical and moisture resistance.

## STRENGTH LAYERS:

Kevlar braided or served layers are used for weight savings and flexibility. A varied amount of break strength or working load can be ordered.

## JACKETS:

Inner barrier jackets for bonding and moisture resistance are used. Outer jackets are light weight TPE insulation for mechanical protection. Some light duty designs have foam PE outer jackets for reduced diameters with more forgiving handling systems.

**\*New foam polyurethane** outer jacket is available for better flexibility, abrasion resistance, and good over-mold capability.

## FEATURES:

Most ROV tether cables contain power conductors, shielded data pairs and video components of either fiber optic, coax or TSP. These cable designs have neutral or near neutral buoyancy. The cables feature a varied degree of strength layers depending on the vehicle size and the handling system. The sampling of constructions listed below are common designs, proven in the ROV industry.

## DESIGN VARIATIONS:

Falmat manufactures many custom ROV cables with lead times as short as 3 weeks and up to 7 weeks for more complex designs. Falmat utilizes stocked inner components for power, video, data, etc. which are tried and proven for underwater applications. This allows for a pick-and-choose design and build concept with short lead times.

PART NUMBER	VIDEO/ TELEMETRY	POWER CONDUCTORS	DATA/ SIGNAL	BREAK STRENGTH	WGT LB/MFT. SEA WATER	FINAL O.D.	
						INCH	MM
FM022702-1	3 - 75 ohm coax's 6 mm fiber steel tube	15c - 18awg	3-TQSJ24awg	14,000 lbs.	27 lbs.	1.780	45.21
FM022702-2	6 mm fibers	4c - 18awg	2-TPSJ24awg	2,000 lbs.	19 lbs.	0.700	17.78
FM022702-3	2 TSP - 26awg	5c - 21awg 11c - 24awg	3-TSP24awg	1,800 lbs.	0 lbs.	0.860	21.84
FM022702-4	1 - 75 ohm coax 2 sm fibers	10c - 20awg	4-TSP26awg	1,200 lbs.	0 lbs.	0.675	17.14
FM022702-5	4 mm fiber	7c - 16awg	4-TSP22awg	2,200 lbs.	0 lbs.	0.900	22.86
FM022702-6	2 sm fibers	3c - 16awg	2-TSP26awg	1,000 lbs.	0 lbs.	0.600	15.24
FM022702-7	1 TSP - 26awg	2c - 18awg	4c - 22awg	500 lbs.	0 lbs.	0.450	11.43
FM022702-8	1 TP - 24awg	4c - 20awg	2 TP - 28awg	200 lbs.	0 lbs.	0.410	10.40
FM022702-9	1 TSP - 22awg	4c - 20awg	2 TP - 28awg	700 lbs.	15 lbs.	0.300	7.60
FM022702-10	2 TSP - 24awg	4c - 22awg	14 C - 24awg	1200 lbs.	34 lbs.	0.540	13.70

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