



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

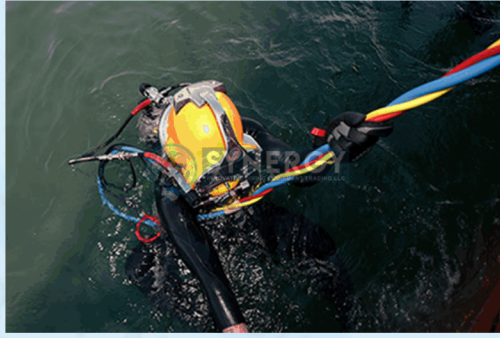
INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN



SYNERGY FIBRON UMBILICALS (FIBROLITE & FIRBOLINE) SY-FIBRON

Fibron Umbilicals are high-performance, flexible cables, designed for the transmission of fluids, electrical power, and data for commercial air diving.



Typically used in deepwater and ultra-deepwater environments, these umbilicals are engineered to withstand harsh conditions, such as high pressures, temperatures, and mechanical stresses.



They are crucial for the functioning of subsea diving operation, power distribution, and gas, control systems.

PartNo.	Nominal Bore		O.D.		Min. bend radius		Working pressure		Nom.burst pressure		Weight in air		Weight in sea water		Typical application
	in	mm	in	mm	in	mm	psi	bar	psi	bar	lb/ft	g/m	lb/ft	g/m	
SY-FLT04	1/4	6.3	0.45	11.5	2.9	75	400	27.5	1600	110	0.054	82	-0.018	-25	Pneumo
SY-FLT06	3/8	9.5	0.68	17.5	4.1	105	500	35	2000	140	0.127	193	-0.035	-53	Air/gas
SY-FLT08	1/2	12.5	0.72	18.5	4.7	120	400	27.5	1600	110	0.110	167	-0.071	-109	Hot water

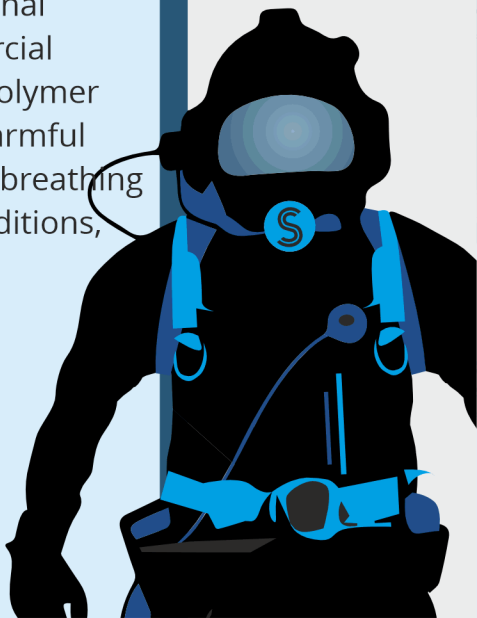
Fibron Umbilicals



Fibron Umbilicals combine unique materials and a cabled "rope-like" construction to deliver the most flexible, neutrally buoyant umbilicals available today. With no need for taping, reduced maintenance, and a longer lifespan, they provide reliable performance in the toughest conditions. Unlike conventional rubber or PVC hoses used in commercial diving, Fibron uses a clean, unfilled polymer formulation with no plasticizers or harmful additives. This ensures the quality of breathing gas remains consistent under all conditions,

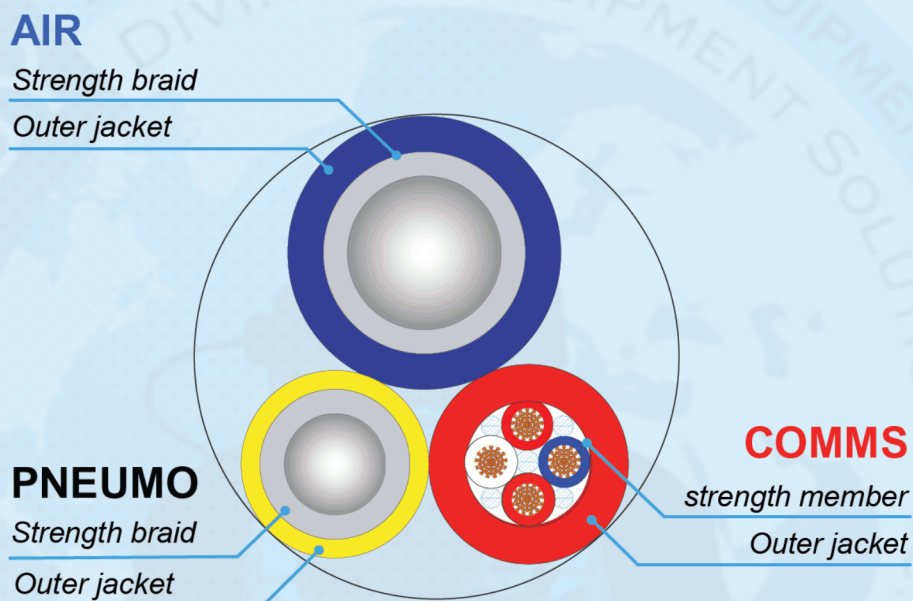
from -40°C to 60°C. Fibron diving umbilicals are designed to withstand the test of time, resisting deterioration with age while maintaining their flexibility and abrasion resistance—outlasting traditional rubber and PVC hoses.

Fibron can supply diving umbilicals in long, continuous lengths. The standard length is 305 meters (1,000 feet), with longer lengths available upon request. SYNERGY invites you to visit our website or contact us directly so that we can assist you with all your Diving Umbilical needs.

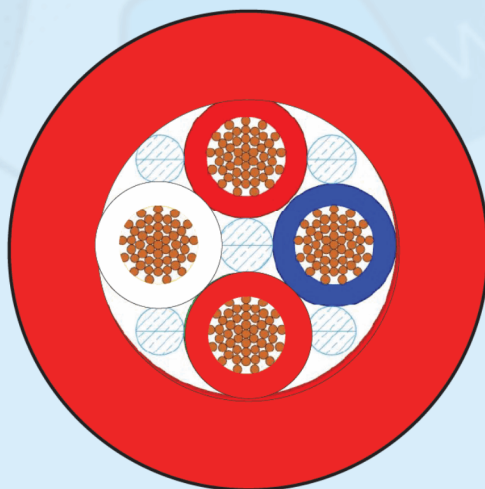


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Intersection Umbilicals



Diversion Communication Cable



SYNERGY UNDERWATER CABLES

SYNERGY stock's a range of purpose built underwater cables for use both separately and incorporated into diving umbilicals. All cables supplied feature flexible, fatigue resistant constructions and tough, abrasion resistant polyurethane outer jackets.

In addition to these standard products custom designed cables can also be supplied to suit particular application/Customer requirements, please contact us for details.

Part Number	Description	Cross Section
SY-DC4C	Diversion Comms Cable Outside Diameter: 11 mm Weight in Air: 119 kg/km Weight in Sea Water: 22.5 kg/km Red Polyurethane Outer Sheath: 1.7 mm nominal thickness	
SY-DVVC-8C	Diversion Video Cable Outside Diameter: 0.5±9.8mm Weight in Air: 110kg/km Weight in Sea Water: 75 kg/km Orange Underwater Polyurethane Thickness: 0.01±1.15mm	
SY-DCS0014	Fibron Combined Communication / Video Cable Outside Diameter: 14 mm Weight in Air: 270 kg/km Weight in Sea Water: 111.5 kg/km Red Polyurethane Outer Sheath: 1.6 mm nominal thickness	
SY-DCS0017	Fibron Four Core Power Cable Outside Diameter: 12 mm Weight in Air: 191 kg/km Weight in Sea Water: 75 kg/km Red Polyurethane Outer Sheath: 1.8 mm nominal thickness	
SY-DCS0012	Fibron Communication / Diver Monitoring Cable Outside Diameter: 10.5 mm Weight in Air: 119 kg/km Weight in Sea Water: 30.5 kg/km Red Polyurethane Outer Sheath: 1.8 mm nominal thickness	
SY-DCS0005	Fibron Mini TV Video Cable Outside Diameter: 11 mm Weight in Air: 170 kg/km Weight in Sea Water: 72.5 kg/km Orange Polyurethane Outer Sheath: 1.4mm nominal thickness	
SY-DCS0016	Fibron Armoured Braided Video Cable Outside Diameter: 15.5 mm Weight in Air: 310 kg/km Weight in Sea Water: 116.5 kg/km Orange Polyurethane Outer Sheath: 1.7 mm nominal thickness	

SYNERGY INFRASTRUCTURE





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