

South Bay Cable

the uncommon  *Connection*

A proud U.S. manufacturer since 1957

Offering Custom Cable Solutions Since 1957

Since 1957, South Bay Cable has been in lockstep with marine technology innovators, driven by a singular principle: complete control and customization.

We don't assemble cables from catalog parts or standard designs. Every cable we build begins as an idea and becomes a precision-engineered solution, designed from the ground up to endure the world's harshest conditions, extreme depths, immense pressure, and demanding mission profiles.

COLLABORATION FROM CONCEPT TO DESIGN

Every South Bay project begins with a conversation. Our sales and engineering teams work directly with clients to define what their cable must achieve, whether they bring a detailed specification

or just an idea to discuss further. Together, we transform requirements into viable designs, balancing mechanical, electrical, and environmental performance to achieve optimal results. Each design includes custom drawings at no cost, ensuring clarity before production begins.

CUSTOM FROM COPPER TO FINAL JACKET

At South Bay, engineering and manufacturing are tightly linked. Because we control every step of production, we can fine-tune parameters, from copper stranding to the final jacket, to meet exact performance goals.

Copper conductors are stranded and bunched in-house to precise electrical values for DC resistance, impedance, and capacitance.

Insulation is selected and extruded to match environmental and dielectric needs.



Anti-submarine warfare: Airborne sonar cable assemblies provide all data functions to the instrumentation in the helicopters. South Bay Cable has built these cables since the 1980s.

1957

Gordon and Joyce Brown began building custom cable assemblies in their home garage in Gardena, California, the South Bay of Los Angeles.

1960s

Opened first factory and became qualified to build MIL-C specs

1970

Relocated to Idyllwild, California, in the mountains of Riverside County.

Strength members are configured from steel, specialty alloys, or advanced synthetics for maximum strength and flexibility.

Fiber optics are integrated from top-tier global producers for reliable signal transmission over long distances and deep-sea deployment.

Jacketing is extruded in-house to achieve precise buoyancy and weight characteristics for land or sea applications, ensuring exceptional concentricity and durability.



The corporate offices of South Bay Cable, located in the mountains of Southern California.

Every cable is purpose-built, engineered, and verified in-house for total control.

QUALITY CONTROL IS BUILT IN

Quality assurance is woven through every stage of production, not added at the end. In-process inspections continuously monitor:

- 1) Construction details
- 2) Dimensional accuracy
- 3) Electrical performance

Because we manufacture our own materials and control each process, traceability and consistency are guaranteed from the first strand of copper to the final shipped reel.

OPERATORS' EXPERIENCE DELIVERS

Our machine operators are craftsmen, many with decades of experience, whose precision and instincts uphold South Bay's standards.

Each new operator is trained through a

hands-on apprenticeship model, ensuring the next generation inherits both skill and pride in workmanship.

SHIPPING FOR EVERY DESTINATION

Every order is optimized for usable footage and shipping efficiency. Our packaging team constructs custom reels, risers, and crates, using internationally certified materials for global delivery. From single-length deep-sea tethers to large-scale spooled assemblies, every shipment reflects the same attention to detail as the cable inside.

INNOVATION BY DESIGN

South Bay's equipment is as unique as our products. Much of our legacy machinery was custom-built, modified, and continuously improved to perform specialized operations. When off-the-shelf tools can't meet our needs, we design and build our own, developing proprietary machinery that enables designs once thought impossible.

1986

Opened second manufacturing facility in Temecula, California.

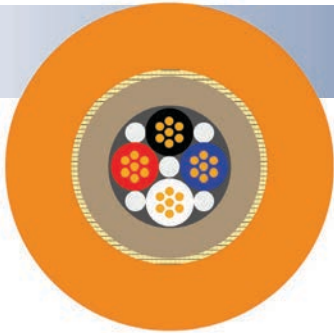
2021

Became part of a group of complimentary companies, retaining same leadership and mission.

Present to future

Purchased machinery to existing facilities, expanding capacity by 35-45% and adding capabilities.

LIGHTWEIGHT SYNTHETIC



SB-598BR

NEUTRALLY BUOYANT

Synthetic strength strands in grooves; neutrally buoyant power tow cable.

Outer Diameter: 0.43 inch

Breaking Strength: 500 lbs.

Working Load: 100 lbs.

Minimum Bend Diameter: 12 inches



SB-459BR

MULTIPLEX-OPTIC

Geological survey; multi-instrumental optic cable

Outer Diameter: 0.44 inch

Breaking Strength: 2,700 lbs.

Working Load: 540 lbs.

Minimum Bend Diameter: 14 inches



SB-567BR

DATA-POWER-OPTIC

ROV cable ready with optics, data pair, power and towing capabilities.

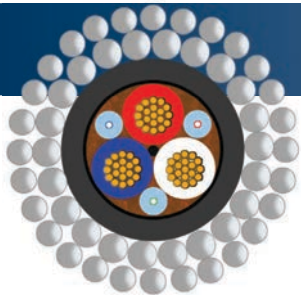
Outer Diameter: 0.82 inch

Breaking Strength: 15,500 lbs.

Working Load: 3,100 lbs.

Minimum Bend Diameter: 26 inches

HEAVYWEIGHT TOW



SB-521BR

ARMORED ELECTRO-OPTIC

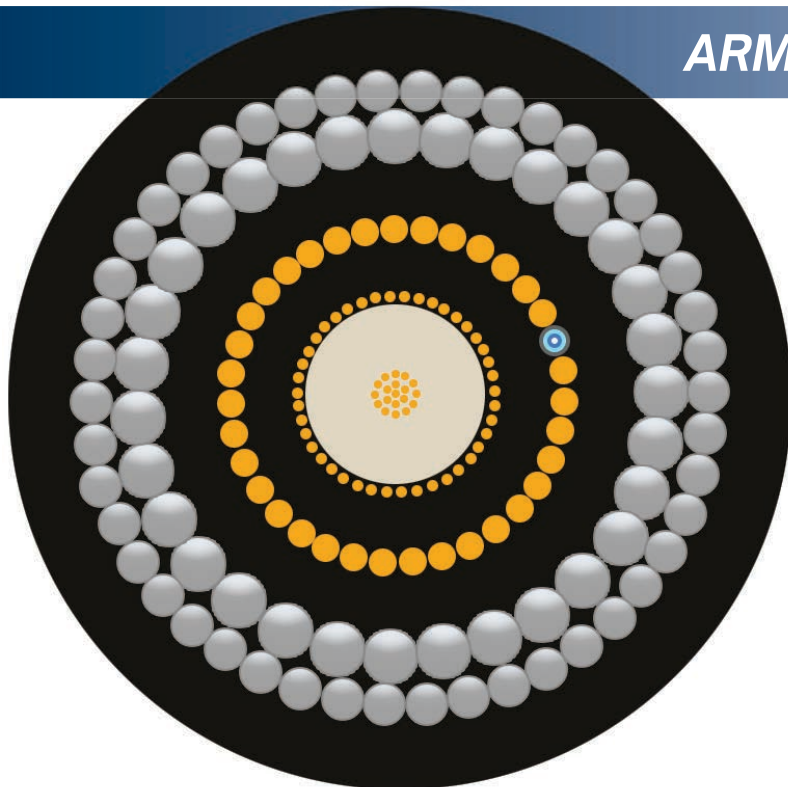
Three multi-mode optics balanced in grooves of three 18 AWG conductors

Outer Diameter: 0.375 inch

Breaking Strength: 10,000 lbs.

Working Load: 2,600 lbs.

Minimum Bend Diameter: 10 inches



SB-579BR

ARMORED OPTIC TRIAXIAL

Distributed temperature: Triaxial with optics and strength

Outer Diameter: 0.99 inch

Breaking Strength: 36,000 lbs.

Working Load: 9,000 lbs.

Minimum Bend Diameter: 32 inches



SB-511BR

ARMORED ELECTRO-OPTIC

Low-strum/noise synthetic aperture sonar

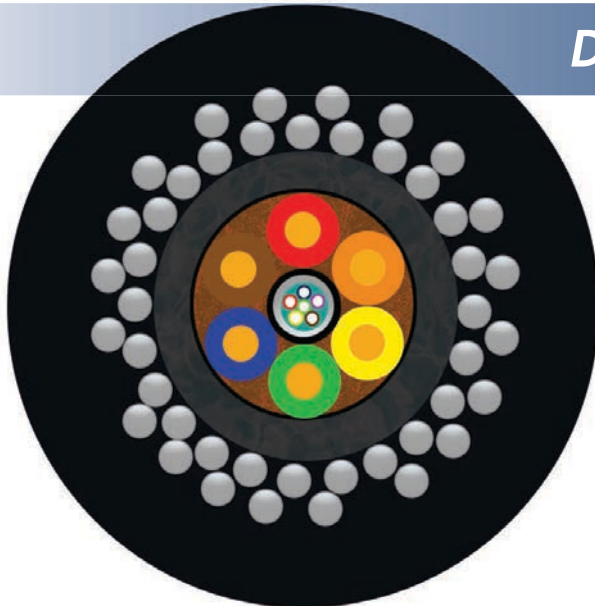
Outer Diameter: 0.409 inch

Breaking Strength: 13,500 lbs.

Working Load: 3,375 lbs.

Minimum Bend Diameter: 16 inches

RANGE CABLES



SB-599BR

DATA-POWER-OPTIC

Long-distance range cable with optics, power and strength.

Outer Diameter: 0.70 inch

Breaking Strength: 9,000 lbs.

Working Load: 1,500 lbs.

Minimum Bend Diameter: 24 inches



SB-526BR

MULTIPLEX-INTERCONNECT

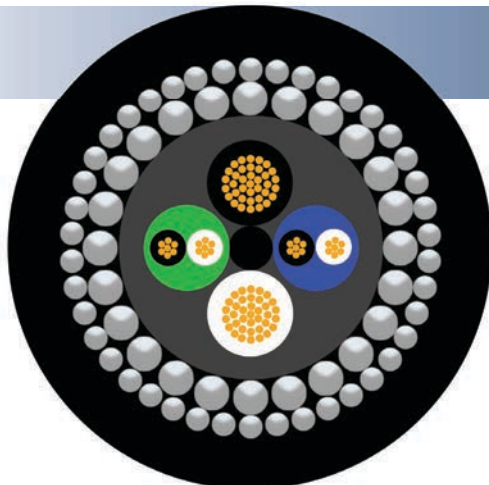
Tuned electrical values

Outer Diameter: 0.50 inch

Weight in Water: 55 lbs.

Minimum Bend Diameter: 12 inches

OTHER CABLE TYPES



SB-498BR

DATA-POWER

Data transfer, power docking station cable

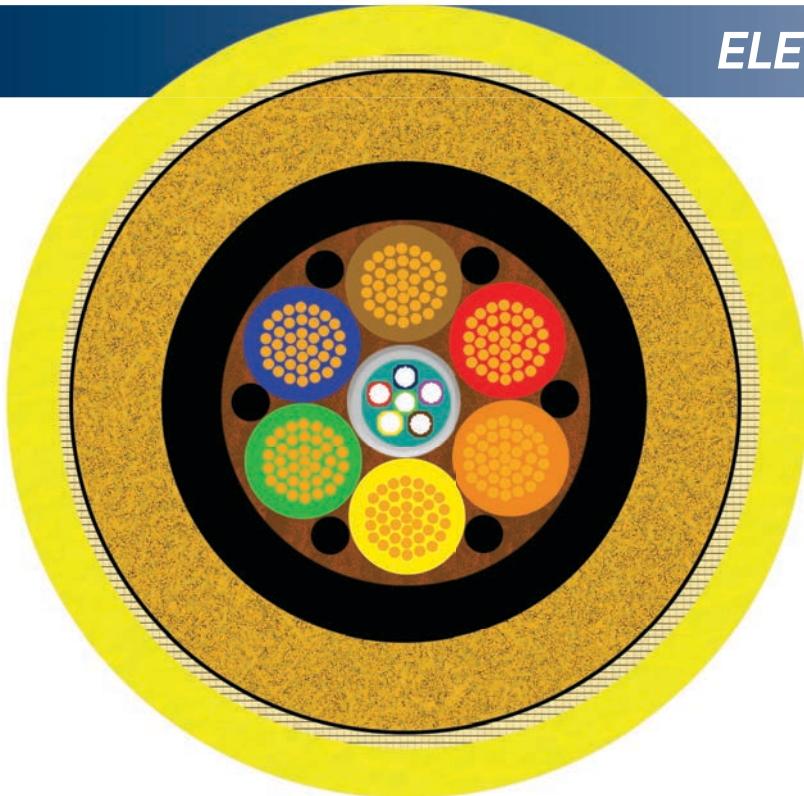
Outer Diameter: 0.575 inch

Breaking Strength: 10,000 lbs.

Working Load: 2,500 lbs.

Minimum Bend Diameter: 18 inches

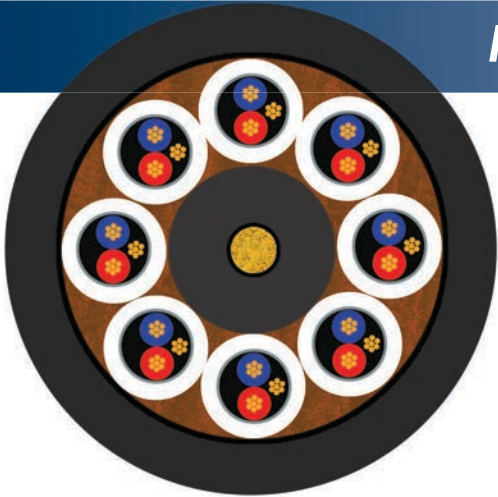
ELECTRO-OPTIC



SB-557BR

Regional scale node ocean
observation cable; 6 SM fiber optics
Outer Diameter: 1.00 inch
Breaking Strength: 40,000 lbs.
Working Load: 6,000 lbs.
Minimum Bend Diameter: 16 inches

MULTI-INSTRUMENTATION



SB-581BR

Central strength member with eight twisted pairs;
multi-instrumentation cable
Outer Diameter: 0.63 inch
Breaking Strength: 500 lbs.
Working Load: 100 lbs.
Minimum Bend Diameter: 20 inches

DATA-POWER-COAXIAL



SB-572BR

Central strength member; data transfer, coax,
two 12 AWG and four 16 AWG conductors
Outer Diameter: 0.62 inch
Breaking Strength: 300 lbs.
Minimum Bend Diameter: 12 inches



future driven.
fleet proven.



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