ROV VIDEO HYBRID CABLE

TETHERS & UMBILICALS FOR REMOTELY OPERATED VEHICLES (ROVS)

ROV Tether Cable

Typical ROV Tethers include power conductors, shielded data pairs and video using coax, TSP, or fiber optics. Designs available in several configurations, including Neutral Buoyancy.A varied degree of strength designs available depending onworkloads and handling system. The sample cables listed be low are proven working designs for vehicles used worldwide.

Design Variations

RV POWER GROUP manufactures many custom ROV cables using tried and proven components for power, video, data, etc., which are available for your design, providing shorter lead times.

Cable Properties

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

Strength Layer: Light weight Kevlar fibers are designed into each cable construction to meet specific ROV intended use for maximum strength and longevity.

Jacket Materials are chosen for optimal bonding, moisture and mechanical resistance. Each ROV cable is uniquely designed for specifi c ROV types using PE, TPE, PUR, and foam variations for flotation.

OUR ADVANTAGES

EASY SOLUTIONS

ADAPTABILITY IS ONE OF OUR BEST QUALITESIT PERMIT US TO COPE WITH YOUR REQUE STON A SHORT NOTICE AND EFFEC TIVELY.

NO PRICE FIGHTS

WE ESCAPED THE OLASSICAL REBATE UNTILYOU DROP " POLICY . WE ARE PRICE WISE SINCETHE BEGINNING

HIGH LEVEL EXPERIENCE

QUR TECHNLAL CAPABILITIES HAVE BEENTESTED FOR MORE THAN 30 YEARS ANDIN-DRECT CONNECTION WITH END USERS . SO TOSAY

ENDLESS INVESTIGATION

WE CONTINUOUSY MEASURE EVERYTHINGTEST . TEST AND TESTAGAIN . THIS HELPS NUNDERSTAND RISKS AND REWARDS . ANDBEPREPARED

NO FORTUNE TELLER

WE BASE OUR DECISIONS ON CLEAR BUSIESSPLANS , THINKING BEFORE MAKING OUR STEPSAND KEEPIN-GA'NOTTODO LISTFOR EVERY-OVE OF THEM

TEAM BUILDING

OUR TEAMIS MADE NOT ONLY BY OUR STAFFBUTIT INCLUDES ALSO ALL OUR CUSTOMERSWEACT LIKEA TEAM WEGROW LKEA TEAMWE WINLIKE A TEAM

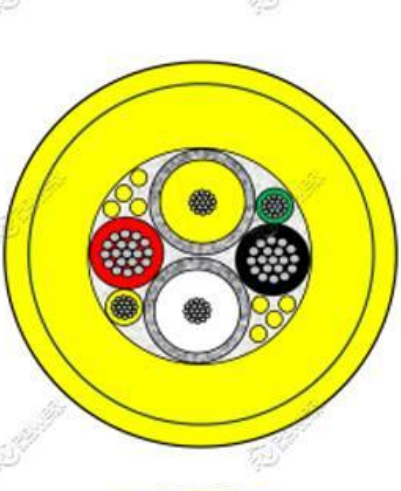
ROV VIDEO HYBRID CABLE

Custom ROV cables using tried and proven components for power, video, data, etc., which are available for your design, providing shorter lead times

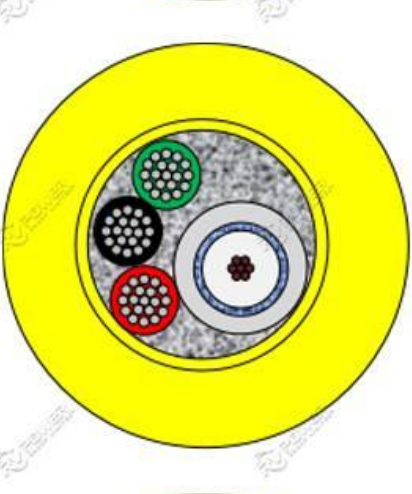
COMPONENTS AND MATERIALS:

- Optical fibers in SS steel tubes /Plastic Tube from 1-24 fibers, single mode, multi-mode,
- Data signals using Ethernet Cat5e and Cat6 signal pairs, RS-232, RS-485, analog, coaxial, shielded components
- Power conductors from 300V to 3.0kv,
- Water block Material : Block water Yarn / Block water Glue
- Strength layers of Synthetic fibers including Kevlar, Vectran
- Jacket compounds :Polyurethane, PE, HDPE, Light weight TPE, foam PE or Foam PUR

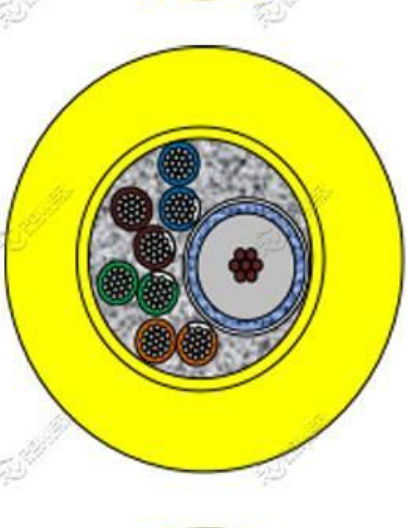
PRODUCT MIX



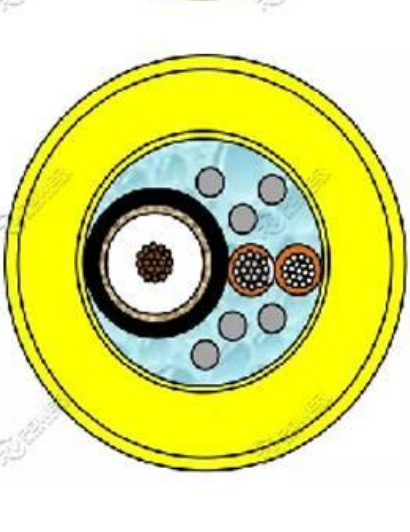
Neutrally buoyant ROV cable
4 POWER Cable
2 Coaxial Cable
Overall diameter: 14 mm



Neutrally buoyant ROV cable
3 POWER Cable
1 Coaxial Cable
Overall diameter: 15 mm

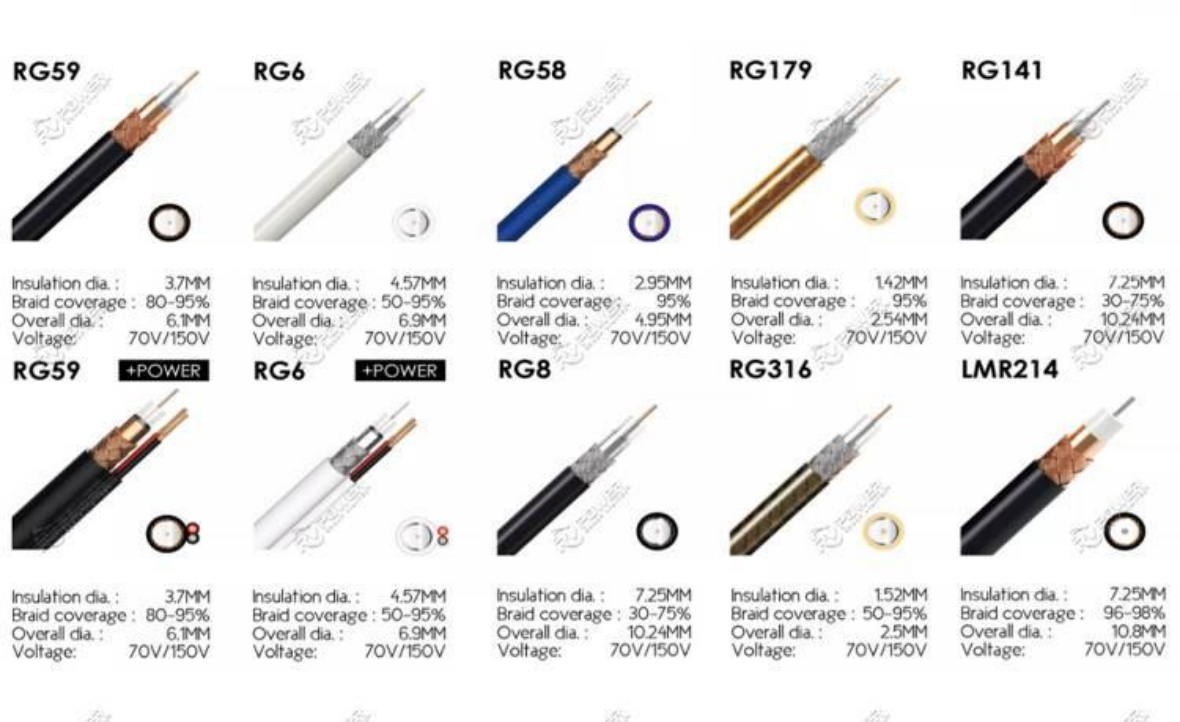


Neutrally buoyant ROV cable
4 PAIRS SIGNAL DATE Cable
1 Coaxial Cable
Overall diameter: 12 mm



Neutrally buoyant ROV cable
1 PAIRS SIGNAL DATE Cable
1 Coaxial Cable
Overall diameter: 8.0 mm

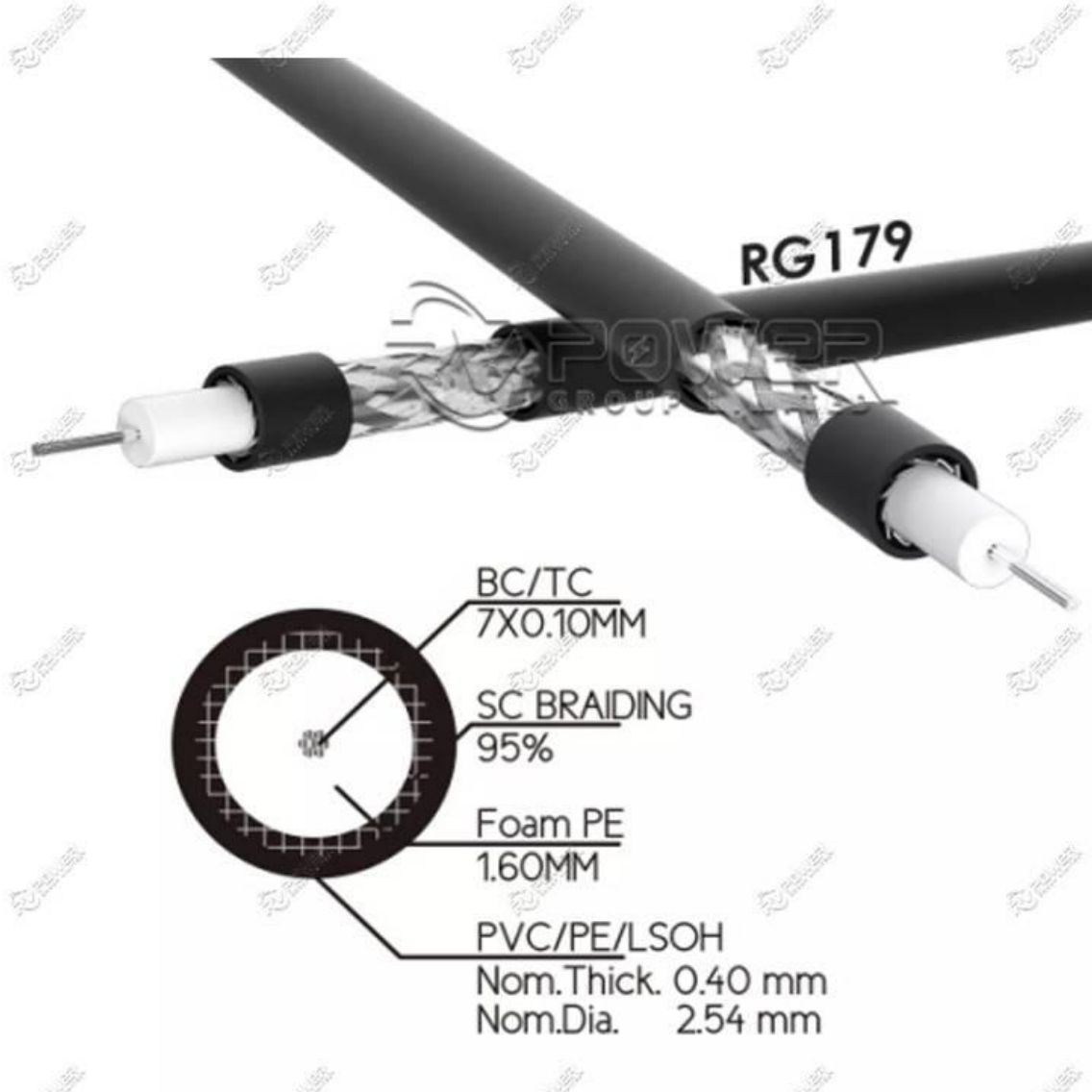
COAXIAL CABLE



	Insulation dia.:	Braid coverage:	Overall dia.:	Voltage:
RG59	3.7MM	80-95%	6.1MM	70V/150V
RG6	4.57MM	50-95%	6.9MM	70V/150V
RG58	2.95MM	95%	4.95MM	70V/150V
RG179	1.42MM	95%	2.54MM	70V/150V
RG141	7.25MM	30-75%	10.24MM	70V/150V
RG59 +POWER	3.7MM	80-95%	6.1MM	70V/150V
RG6 +POWER	4.57MM	50-95%	6.9MM	70V/150V
RG8	7.25MM	30-75%	10.24MM	70V/150V
RG316	1.52MM	50-95%	2.5MM	70V/150V
LMR214	7.25MM	96-98%	10.8MM	70V/150V

LMR179
RG58
RG58+power
RG59
RG59+power
RG6
RG6+power
RG8
RG11
RG11+power
RG213
RG214
RG216

MINI --RG59 (75Ohm Coaxial Cable)



Which Is Right for You: 50 Ohm vs. 75 Ohm

Knowing what coax cable you need helps you find the ideal cellular booster that suits your needs. For some individuals, 75 Ohm works, but others need 50 Ohm. By better understanding what these are and what Ohm is, you can make finding your ideal booster kit a breeze. Discover the differences between 50 Ohm and 75 Ohm to know which is right for you!

What Are Ohms?

Noting the Ohm of a cable and what you need is important because it measures the electrical resistance. However, you don’t need to get into the nitty-gritty of calculating Ohm to find the ideal booster cable. What’s most important is knowing the difference between 50 Ohm and 75 Ohm.

50 Ohm

Interestingly, the smaller the Ohm number, the better the booster performs, so systems with 50 Ohm are stronger than those with 75 Ohm. While 50 Ohm is stronger, it isn’t necessary for most homes or small buildings and covers anywhere from 7,500 to 100,000 sq ft. Likewise, these cables run around 100 ft. long.

Understanding the various cellular signal booster cables can help you decide whether 50 Ohm or 75 Ohm is suitable for you. Cables with 50 Ohm are more powerful than those with 75 Ohm so that they can enhance the signal in a large space. Also, these cables have N connectors to keep the antenna and booster hooked up.

Who Buys 50 Ohm?

Typically, owners of large commercial buildings buy booster kits with 50 Ohm, but anyone can purchase them. Some owners of smaller homes may live in rural locations and need a stronger system to keep connected. Whether you buy 50 Ohm depends on your needs, home size, and location.

If you’re unsure of what would be best, consult an expert at SureCall Canada! You’ll want to ensure that the indoor cell booster antenna, outdoor antenna, amplifier, and other accessories work together.

75 Ohm

In a building under 5,000 square feet, systems with 75 Ohm work perfectly fine. Most experts agree that this is ideal for most home and small business owners. However, it’s worth noting that there is a -1.1 dB loss with 75 Ohm; for this reason, it’s not ideal for everyone. Most of the time, homeowners buy an RG-6 or RG-11 cable for their booster, which both offer 75 Ohm.

Noting the differences between 50 Ohm and 75 Ohm allows you to better analyze which fits your needs. Often, homeowners buy systems with 75 Ohm but may need something stronger if they live in a rural area. Find the ideal cellular booster kit for your needs to improve signal no matter where you are!

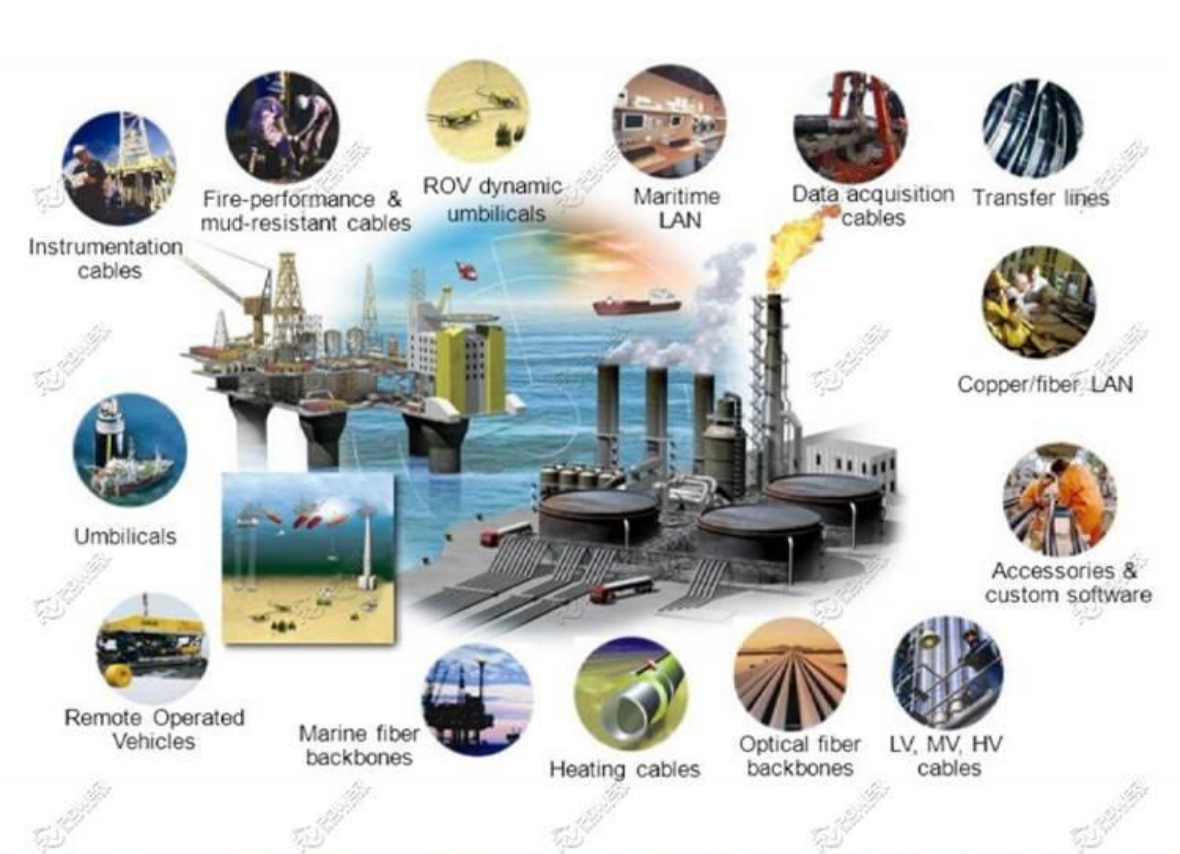
CABLES FOR MARITIME AND UNDERWATER TECHNOLOGIES

Underwater technology, especially at great depths, is challenging. ROVs, used for underwater inspection, survey and search work,Require cables with high performance and reliability for efficient and accurate control, providing the required strength to support the vehicle.Cables and tethers used for Remotely Operated Vehicles represent the vital connection between the vehicle and the vessel.These products include: neutrally buoyant tethers, Kevlar strength member cables, hybrid cables.

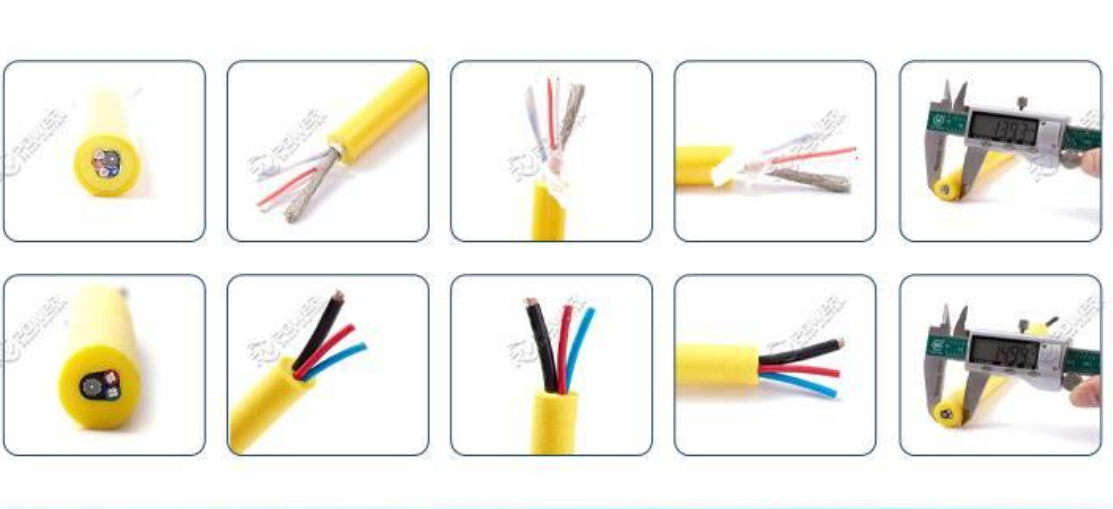
We has many years of knowledge and experience manufacturing cables for the ROV.We offer a complete range of standard communication, video, power and combined service cables, designed to meet the extreme pressures of the subsea environment. Whatever your diving application needs, we can create flexible, cost-effective engineering solutions to suit your requirements and your budget.

SUBSEA CABLES TYPE

SUBSEA CABLES TYPE
ROV Tether Cable
ROV Umbilicals Cable
Diver umbilical
Pool robotic cleaner cable
Neutrally Buoyant Cables
Diver Communications Cable
Underwater Video Cable – Diver
CCTV Inspection Crawler Video Cables
Underwater Fiber Optic Cable
Underwater Instrumentation Cable
Underwater Multiconductor Power & Control Cable
Underwater Ethernet Cable
Sidescan Sonar Tow Cable
Coax Oceanographic Tow Cable
Push-rod Cables
Polyurethane or Polyethylene Jacketed Cables
Composite Underwater Communication Cables
PUR underwater umbilical hybrid Optical
Custom Cable Designs



ROV VIDEO HYBRID CABLE



DETAIL DISPLAY

ONE

LONG DISTANCE DATA TRASMISSION

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

TWO

RESILIENT, FLEXIBLE AND NEUTRALLY BOUYANT ONE SINGLE LONG CONTINUOUS LENGTH REQUIRED

Custom ROV cables using tried and proven components for power, video, data, etc., which areavailable for your design, providing shorter lead times.

THREE

WATER BLOCKED CABLE

Water block flooding compounds offered to each specific design are light wgt and fully encapsulating, design for extreme ocean depths and pressures, salt and oil resistant elastomeric and thermosetting

FOUR

HIGH BREAKING STRENGTH

Strength Layer: Light weight Kevlar fibers are designed into each cable construction to meet specific ROV intended use for maximum strength and longevity.

FIVE

SMALL SIZED. LIGHT . PRESSURE RESISTANT . ABRASION/ EROSION RESISTANT

Jacket Materials are chosen for optimal bonding, moisture and mechanical resistance. Each ROV cable is uniquely designed for specific ROV types using PE, TPE, PUR, and foam variations for flotation.

OIL RESISTANT
FLAE RESISTANT
HALOGEN FREE
COLD RESISTANT
ABRASION RESISTANT
OZONE RESISTANT
UV RESISTANT
MICROBE RESISTANT
MUD RESISTANT
WATER RESISTANT