

## RMK-1/0 Neoprene Moulded Connector

The **RMK** Neoprene Moulded connector series has a long established pedigree in deep ocean and harsh environment applications and has commonly been used in high voltage seismic sound source products.

These products are all-UK manufactured and can be specifically tailored to a customer need. The time proven rubber moulding process allows for a highly cost effective solution to many underwater instrumentation applications.

The range comprises in-line male and female connectors with stainless steel or brass mating bulkheads, with other material options available on request.

Rated to 7,100m, these connectors can be supplied terminated to any length of cable and are available with 1 to 4 contacts.



### Key Features and Benefits (RMK-1/0 Power Range)

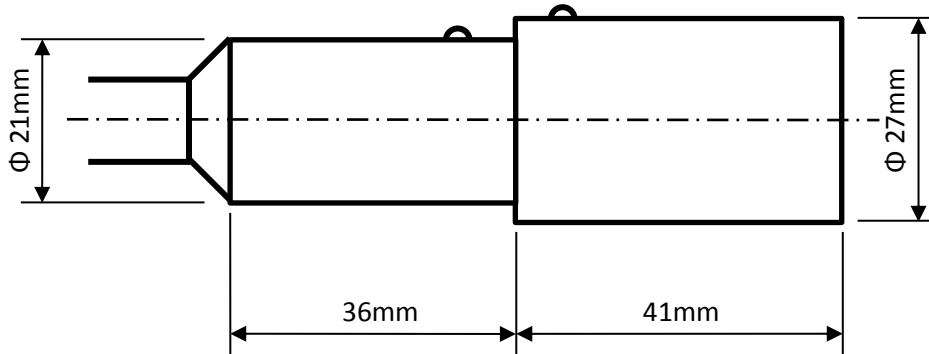
- Supplied terminated to 16mm<sup>2</sup>, 25mm<sup>2</sup>, 35mm<sup>2</sup> and 50mm<sup>2</sup> single core cable as standard, alternative options available on request
- Standard rating up to 200A @ 600V d.c.
- Voltage surge rating up to 1.4kV
- Electrical input for Seismic sounders up to 720J @ 4000V
- Standard and reverse gender configurations for connectors or bulkheads
- Bulkhead mounting variants and conductor tails to suit individual requirements
- Right angled and multi-way breakout moulding options
- Higher voltage and current designs can be supplied on request
- All in-house, UK manufacture for fast response, low cost bespoke versions

### Standard Specifications :-

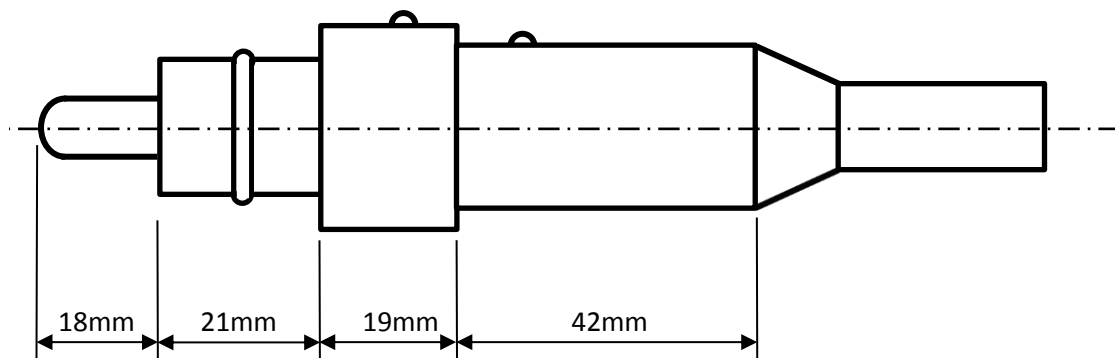
Temperature :	-40 °C to 60°C	Bulkhead Body :	Stainless 316L
Contact IR :	>999MΩ @ 1,000Vdc	Connector Body :	Chloroprene Rubber
Mated Depth :	7,100m	Contacts :	Brass UNS – C36000
Locking Collar :	Delrin or Stainless Steel	O Rings :	Nitrile N170

## RMK-1/0 In-line Connector Nominal Dimensions

### RMK-1/0-FS



### RMK-1/0-MP

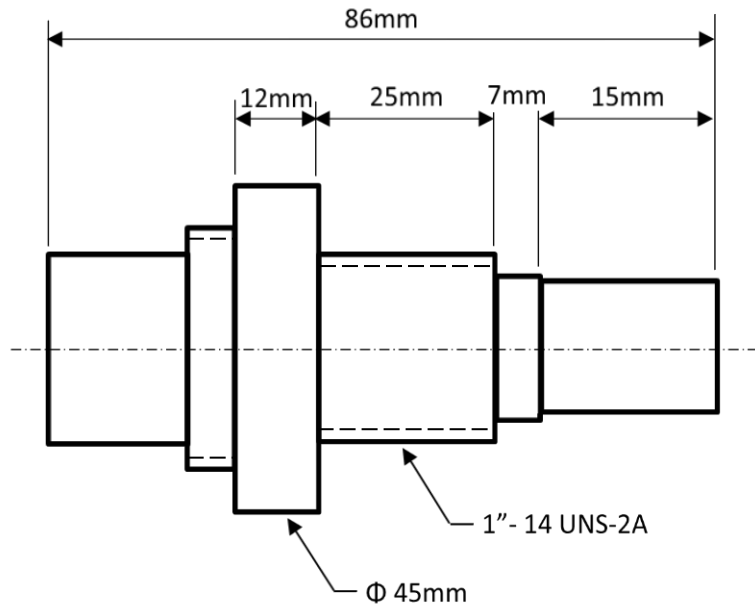


### Notes :-

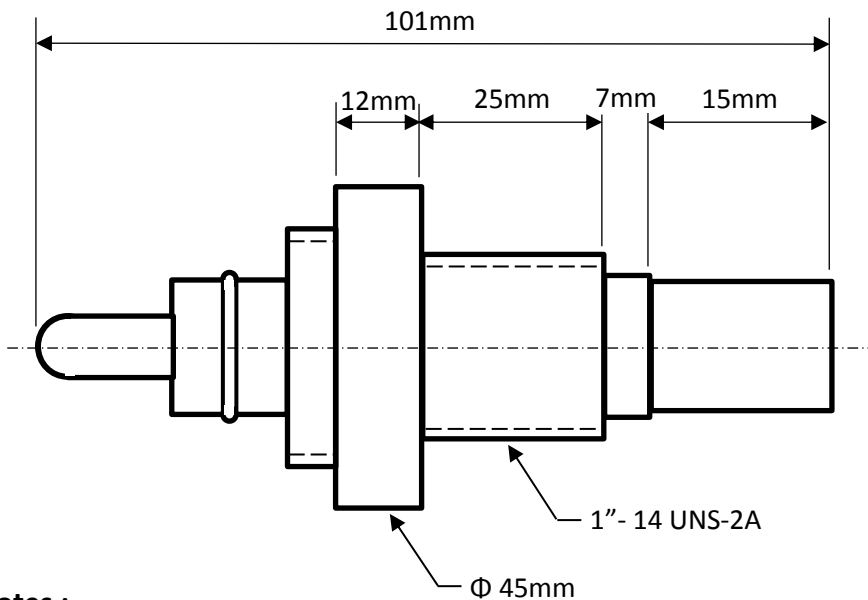
- Cable diameter to suit required current rating i.e. :-
  - 50mm<sup>2</sup> Single Core / 200A = 17.5mm
  - 35mm<sup>2</sup> Single Core / 170A = 15.5mm
  - 25mm<sup>2</sup> Single Core / 135A = 14.0mm
  - 16mm<sup>2</sup> Single Core / 100A = 11.5mm
- Cable length specified by customer
- Male and Female Locking sleeves and Dummy Connectors or Dust Caps supplied on request

## RMK-1/0 Bulkhead Nominal Dimensions

### XSK-1/0-FS



### XSK-1/0-MP



#### Notes :-

- Stainless steel body as standard, other options available
- Mounting thread (1"-14 UNS, 25mm long as standard) to suit requirement
- Can be supplied with suitable cable tails on request

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STSubsea products are being used in a wide variety of marine and harsh environments, including:-

- Subsea instrumentation, sensors, and control systems
- Autonomous and remotely operated surface and underwater vehicles
- Downhole instrumentation and logging systems
- Military Communication and Control systems
- Meteorological Buoy systems
- Military Sonar systems
- Land and Marine Seismic equipment
- Offshore renewable energy projects

These products are derived from a range of key strengths, capabilities and industry experience:-

- Specialised, bespoke connectors and cables for underwater or harsh environments
- Complete prototyping service, from design to manufacture to electrical and pressure testing.
- Design of electrical, optical, coax /RF, Ethernet or hybrid connectors from unique one-offs to volume applications
- Cost effective, shallow water products
- Incorporating proven, commercially available interconnects into subsea capable solutions
- On-site moulding service and an over-moulding material capability for Polyurethane, Neoprene and Polyethylene components
- Through-hull penetrators, glass-to-metal seals and epoxy waterblocks
- Ceramic transducers and hydrophones
- Potting and encapsulation of switches, sensors, strain gauges and PCBs
- Long established, MetOcean range of metal shell, drymate connectors

STSubsea is a Division of STS Defence, providers of electronic manufacturing and through-life system engineering services; engaging with our customers through experience, expertise and a commitment to quality.

An SME based in Gosport, Hampshire, STS Defence focuses on customer value and satisfaction, working in partnership with customers to develop initial concepts into reality with divisions to match the needs of our customers:

Engineering Services delivers innovative solutions in the integration and support of maritime communication, multimedia and sensors for the UK defence market.

Manufacturing Services has an extensive aerospace, maritime, defence and commercial portfolio of capabilities in box build, PCB assembly, cable and harness manufacture and fabrication.

STSubsea Nuclear provides specialist support and training to civil and defence nuclear sectors.

Recently launched, IntelliMon focuses on intelligent monitoring systems for industrial, maritime and public safety applications.

Along with Primetake, producers of specialist ammunition, STS Defence is part of the Key Technologies group.