

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)

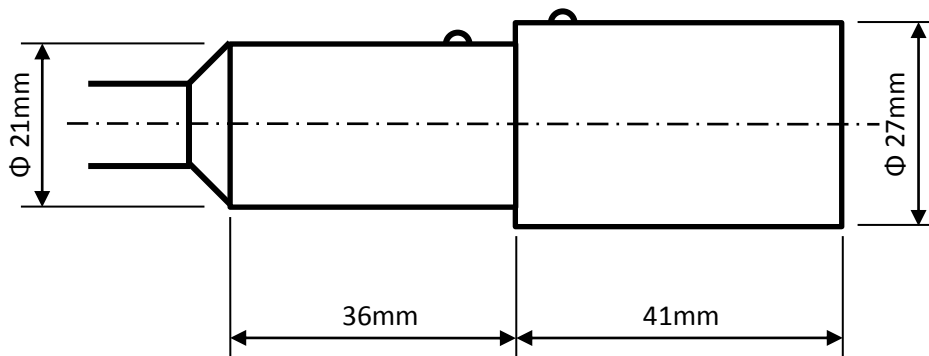
- Supplied terminated to 16mm², 25mm², 35mm² and 50mm² single core cable as standard, alternative options available on request
- Standard rating up to 200A @ 600V d.c.
- Voltage surge rating up to 1.4kV
- Electrical input for Seismic sounders up to 720J @ 4000V
- Standard and reverse gender configurations 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 :-

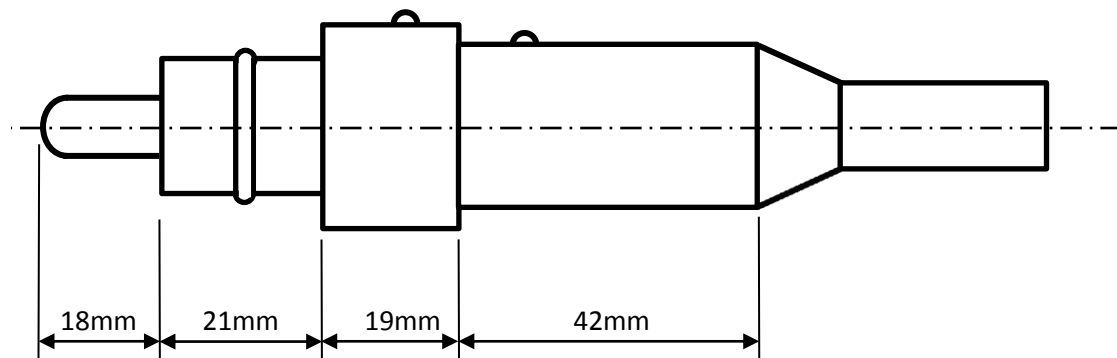
Temperature :	-40 °C to 60°C	Bulkhead Body :	Stainless 316L
Contact IR :	>999MΩ @ 1,000Vdc	Connector Body :	Chloroprene Rubber
Mated Depth :	7,100m	Contacts :	Brass UNS – C36000
Locking Collar :	Delrin or Stainless Steel	O Rings :	Nitrile N170

RMK-1/0 In-line Connector Nominal Dimensions

RMK-1/0-FS



RMK-1/0-MP

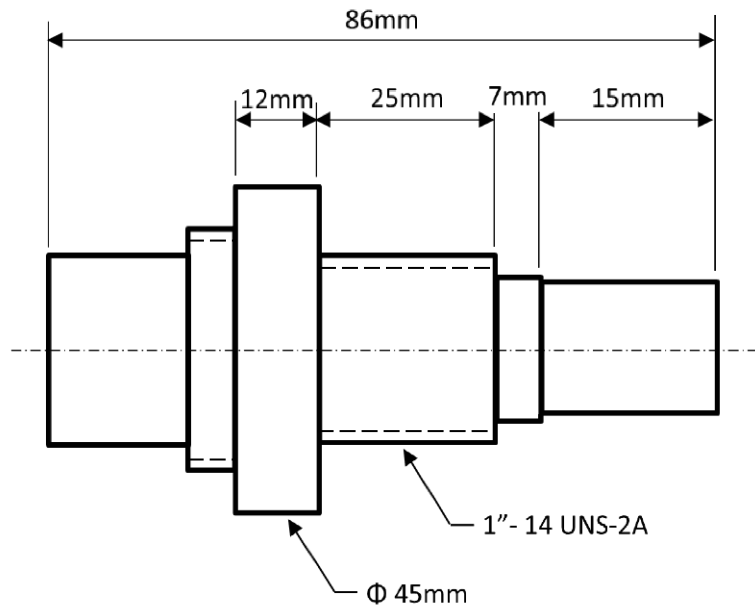


Notes :-

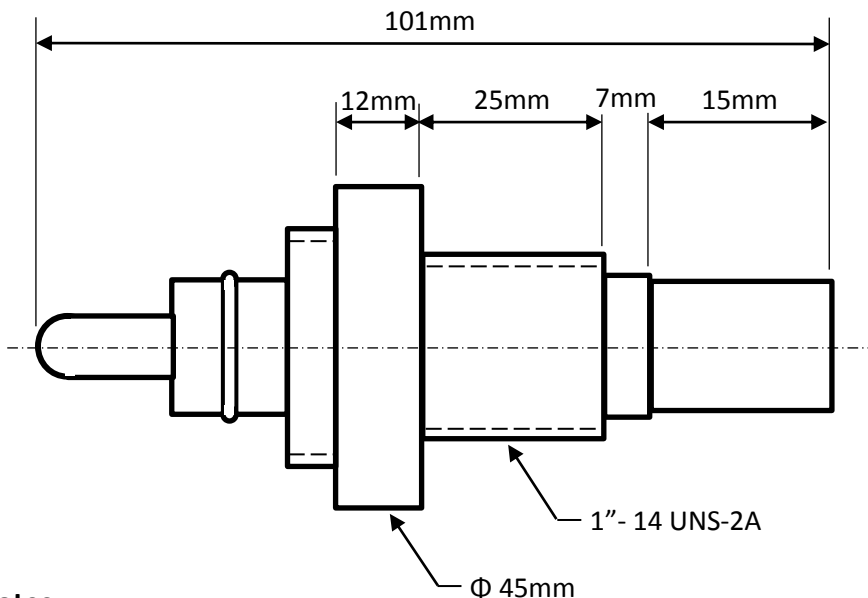
- Cable diameter to suit required current rating i.e. :-
 - 50mm² Single Core / 200A = 17.5mm
 - 35mm² Single Core / 170A = 15.5mm
 - 25mm² Single Core / 135A = 14.0mm
 - 16mm² Single Core / 100A = 11.5mm
- Cable length specified by customer
- Male and Female Locking sleeves and Dummy Connectors or Dust 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

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, an SME providing electronic manufacturing and through-life system engineering services; engaging with our customers through experience, expertise and a commitment to quality. Our STS Nuclear division provides specialist nuclear support and training to civil and defence sectors.

STS Defence is part of the Key Technologies group along with STS Rail, Primetake, providers of specialised ammunitions and Foxton, suppliers of audio visual equipment.

We focus on working in partnership with customers developing initial concepts into reality, leveraging over 40 years' experience of working on Ministry of Defence projects to develop an impressive portfolio of through-life capabilities that are essential to our clients.