
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 and renewable energy applications.

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 power and 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)

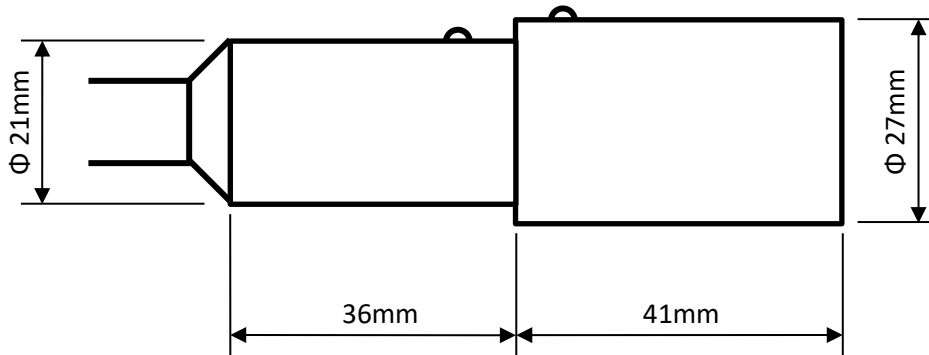
- Supplied terminated to 16mm², 25mm², 35mm² and 50mm² single core cable as standard, alternative options available on request
- Standard rating up to 200A @ 600V d.c.
- Voltage surge rating up to 1.4kV
- Electrical input for Seismic sounders up to 720J @ 4000V
- Standard and reverse gender configurations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

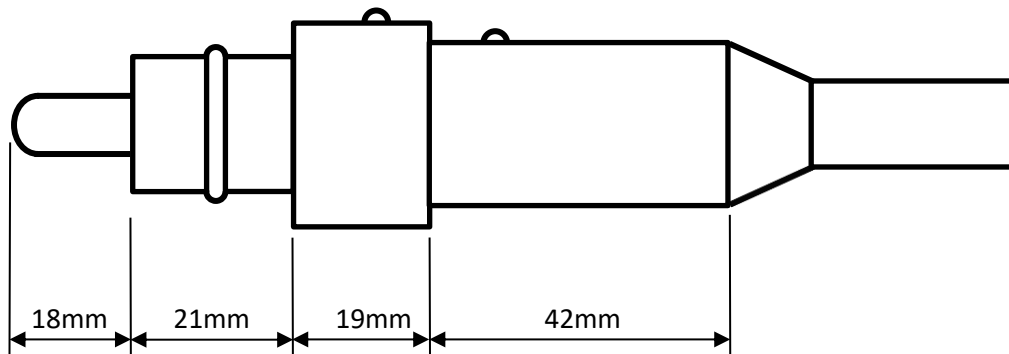
Temperature :	-40 °C to 60°C	Bulkhead Body :	Stainless 316L
Contact IR :	>999MΩ @ 1,000Vdc	Connector Body :	Chloroprene Rubber
Mated Depth :	7,100m	Contacts :	Brass UNS – C36000
Locking Collar :	Delrin or Stainless Steel	O Rings :	Nitrile N170

RMK-1/0 In-line Connector Nominal Dimensions

RMK-1/0-FS



RMK-1/0-MP

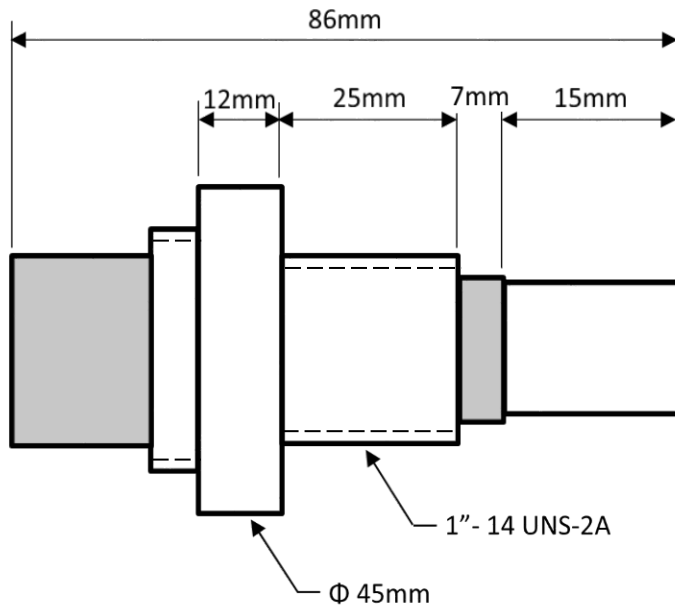


Notes :-

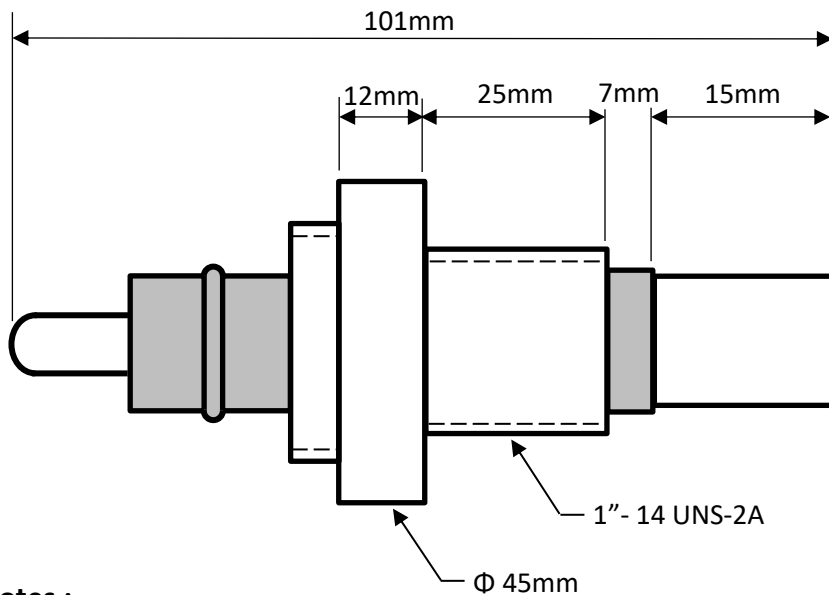
- Cable diameter to suit required current rating i.e. :-
 - 50mm² Single Core / 200A = 17.5mm
 - 35mm² Single Core / 170A = 15.5mm
 - 25mm² Single Core / 135A = 14.0mm
 - 16mm² Single Core / 100A = 11.5mm
- Cable length specified by customer
- Male and Female Locking Sleeves and Dummy Connectors or Dust 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 are available
- Mounting thread (1"-14 UNS, 25mm long as standard) to suit requirement
- Can be supplied with suitable cable tails on request

Handling Instructions - RMK Inline Connectors

- Always apply a liberal smear of silicone grease to the Neoprene surfaces prior to mating.
- After mating remove any excess grease from the connector joint.
- Locking Collars should be fitted hand tight, do not overtighten.
- Disconnect by pulling straight on the connector bodies, do not pull at an angle.
- Do not pull on the cable and ensure there are no sharp bends.
- After use, clean with cloth lightly soaked in isopropyl alcohol (or similar) solution. Always allow time for any residual alcohol to flash off before re-greasing and mating as this can degrade the neoprene.
- Check to ensure that any old grease, sand, grit or mud etc. has been removed from the mating surfaces prior to re-greasing. Check for any signs of damage, particularly to 'O' rings.
- Do not expose to extended periods of direct sunlight or extreme heat, if the neoprene becomes noticeably dry it can be soaked in fresh water prior to use.

XSK Bulkhead Connectors

- Bulkheads are to be fitted using peg spanners provided, hand tighten to apply compression to the 'O' Ring.
- Bulkhead sealing 'O' Ring to be lightly greased prior to installation.
- Insulation cut back 14-18mm on the cable end to expose the cores.
- Cable to be located in the bulkhead, hand tighten using the Allen Key provided.
- It is recommended that a suitable adhesive lined heatshrink is applied to the back of the bulkhead to cover the cable termination and a minimum of 25mm of cable jacket.
- Care of Neoprene moulded areas as detailed for the RMK Inline Connectors.
- If in doubt, please contact STS Subsea for advice.

