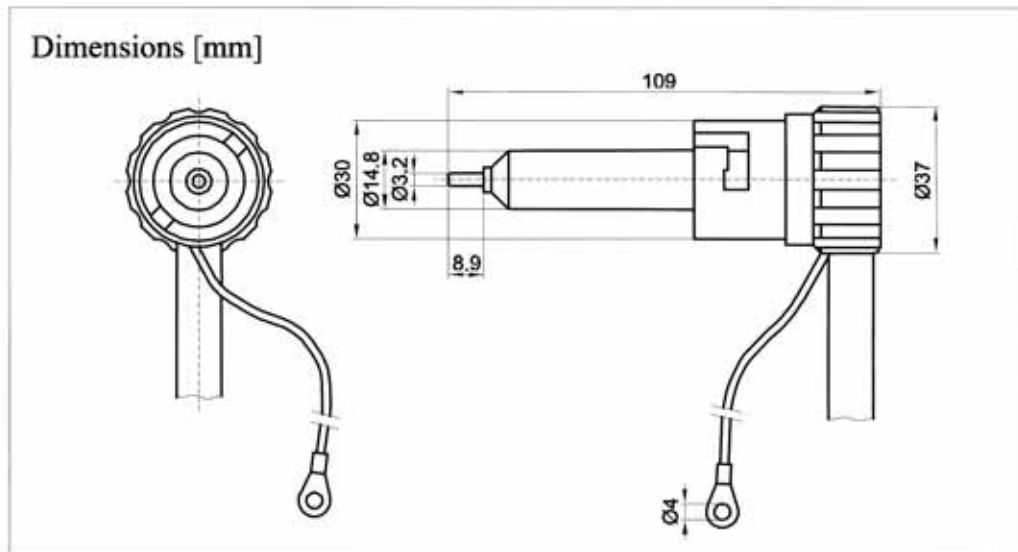


Mammography Cable Assemblies

Claymount high voltage Mammography cable assemblies are single conductor 60 kVDC rated high voltage cables terminated with straight or 90° angled plugs that comply with NEMA XR 7 and are type-tested under the severest life (aging) conditions. The plug is made of a high insulation thermoplastic material and is filled with an insulation compound. Every plug is equipped with a 30 cm (12 inch) long ground lead connected to the cable shield.



90° angled plug.

Claymount Mammography cable assemblies offer:

- MammoFlex cable with super small diameter (11.1mm)
- Excellent cable flexibility
- 95 % cable shielding braid coverage
- Very high insulation resistance
- Straight or 90° angled terminations.

For information on ordering, please consult the chapter "General Information and Ordering".

Installation

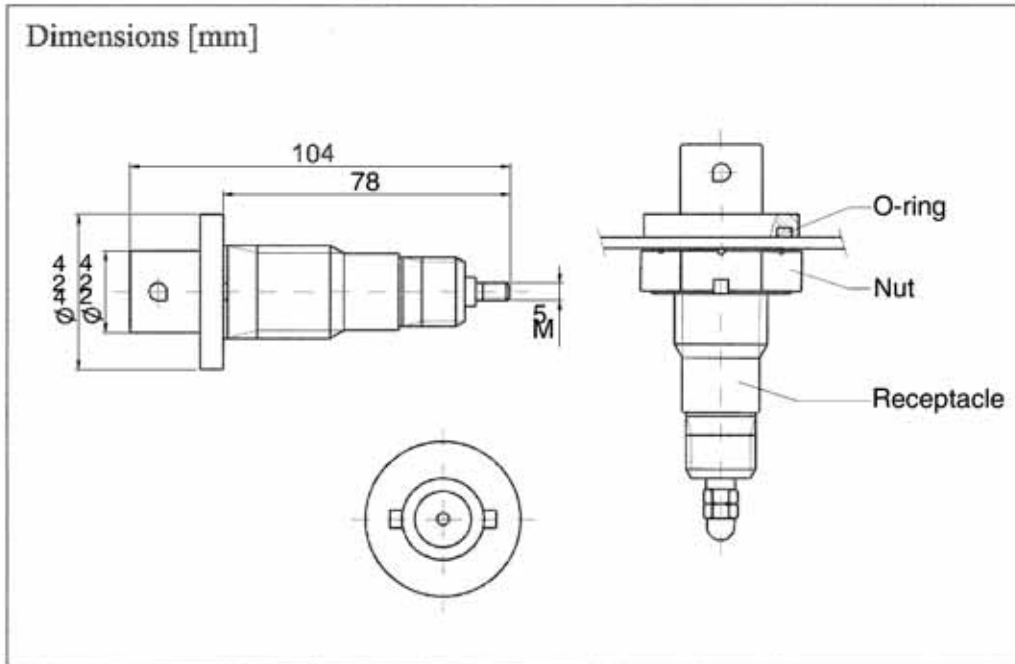
Mammography cable terminations are installed in a receptacle with silicone grease. A tube of silicone grease is supplied with each cable assembly. The installation of the plug into the receptacle is very easy with the bayonet lock.

Technical data

Number of contacts	1
Rated voltage	60 kVDC
Type test voltage between pin and ground lead	90 kVDC / 15 min
Maximum current rating	25 A
Maximum continuous operating temperature	100 °C / 212 °F
Outer diameter	37 mm / 1.457 in

Mammography Receptacle

Receptacle for mammography plugs, complying to the NEMA XR7 standard for X-ray cable plugs and receptacles.



Mammography receptacle.

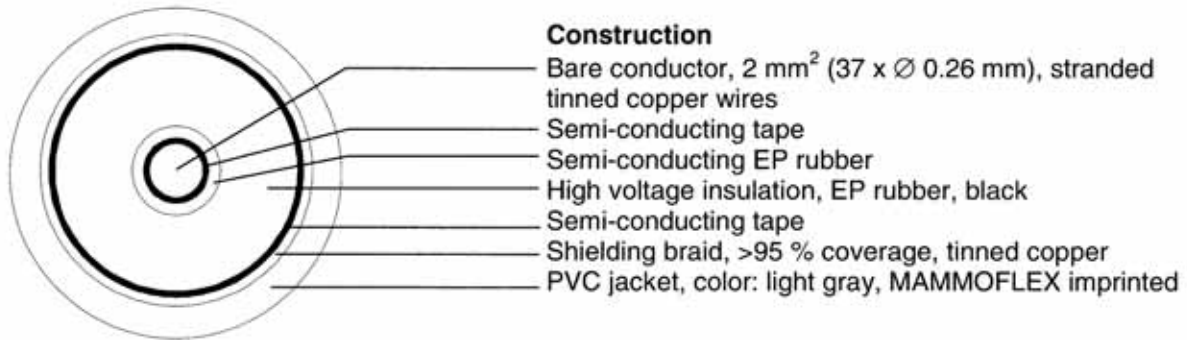
The receptacle is made of UL 94-V0 and UL 94-5VA rated high insulating thermoplastic material with an excellent chemical resistance to transformer oils and chemicals. The directly moulded brass contact pin is sealed with O-rings for excellent vacuum-sealing. Standard packaging consists of one receptacle with nuts mounted on its screw terminal and an O-ring and plastic nut for mounting the receptacle in its housing.

For information on ordering, please consult the chapter "General Information and Ordering".

Technical data

Rated voltage between pin and ground	60 kVDC
Type-tested voltage between pin and flange	90 kVDC / 15 min
Insulation resistivity between pin and flange	$\geq 10^{15} \Omega$
Maximum conductor current	25 A
Material flame class rating UL 94 5VA	2.25 mm / 0.089 in
Maximum continuous operating temperature	130 °C / 266 °F

1-Conductor 60 kVDC rated High Voltage Cable “Mammoflex®”



Applications

- Medical mammography and other scientific X-ray, electron beam or laser equipment.

Technical data

Number of conductors	1
Rated voltage	60 kVDC
Routine test voltage (high voltage insulation)	90 kVDC / 10 min
Conductor current rating	31 A
Nominal outside diameter	11.1 mm / 0.437 in / ±0.5 mm / ±0.020 in
Thickness of PVC jacket	1 mm / 0.039 in
Thickness of high voltage insulation	2.6 mm / 0.102 in
Diameter of core-assembly	1.8 mm / 0.071 in
Insulation resistance core-shield @20 °C	≥1x10 ¹² Ω·m / ≥3x10 ¹² Ω·ft
Conductor resistance @20 °C	8.82 mΩ/m / 2.9 mΩ/ft / ±5 %
Shield resistance @20 °C	7.22 mΩ/m / 2.37 mΩ/ft / ±5 %
Capacitance between conductor and shield	171 pF/m / 56 pF/ft / ±10 %
Cable min. bending radius (static installation)	22 mm / 0.9 in
Cable min. bending radius (dynamic installation)	45 mm / 1.8 in
Operating temperature	-10/+100 °C / +14/+212 °F
Storage temperature	-40/+70 °C / -40/+158 °F
Net weight	180 kg/km