

## Radiation resistant wire with PEEK insulation

### 311-PEEKM-035-10M

PEEK insulated cables combine high radiation resistance and a very high insulation resistance over a broad temperature range.

These are outstanding properties for use in Ultra High Vacuum systems. The low water absorption in air (0.1%) combined with a high diffusion rate of water also make it ideal for systems which cannot be baked.

The high insulation resistance and a high breakdown voltage make this insulated cable ideal for delicate signals and high voltage applications.

#### Specifications

Construction	Multi strand wire, extruded PEEK insulation
Conductor	Silver plated copper, multi strand 0.35mm: 7 x 0.12mm $\varnothing$
Insulation	PEEK, unfilled, natural colour
O.D $\varnothing$	0.68 $\pm$ 0.02mm
Min. Bend radius	7.5 x diameter (long term)
Radiation Resistance	10 <sup>9</sup> Rad = 10 <sup>7</sup> Gy
Voltage Rating	At least 4KV DC in vacuum
Working voltage	>10KV DC
Breakdown voltage	>20KV
Vacuum	UHV, 10 <sup>-10</sup> mbar and better
Temperature	-65°C...250°C, -200°C for non-flex applications
Insulation resistance	>1 x 10 <sup>16</sup> Ohm cm



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