

- Low triboelectric noise cable
- Low Outgassing for use in space/vacuum conditions
- Screened coaxial cable
- PFA Jacket
- -90°C to +260°C range
- Ideal for Piezoelectric charge output sensors or IEPE
- Blue jacket colour with Low Noise labelling
- Nominal diameter 2mm
- 10/32UNF Microdot to 10/32UNF Microdot
- Length 5m±5%

Kemo Ltd has been making high quality signal conditioning equipment since 1965 and during this time we have worked with many of the World's largest companies and witnessed many examples of poor-quality instrumentation cables. To resolve this problem Kemo offers its own specialist cable assemblies for the sensor and instrumentation market.

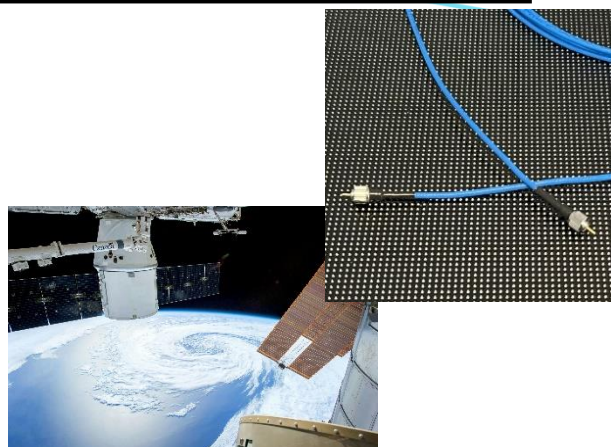
The low noise cables we produce are assembled by Kemo using the highest quality cable and connectors that meet our exacting standards. Designed for use with piezoelectric sensors to minimise triboelectric noise, these cables also feature high screen coverage to reduce interference.

For use in vacuum conditions where low outgassing is required, we remove the usual rubber strain relief used on both connectors and replace with a modified fluoropolymer, heat shrink designed for use in space applications. Sometimes referred to as flyaway cables, these low outgassing cables are essential for space applications.

Attention is paid to strain relief and correct crimping. Every cable is fully tested and the capacitance checked prior to despatch.

	PTFE	PFA
TML	0.06%	0.01%
CVCM	0.02%	0.00%

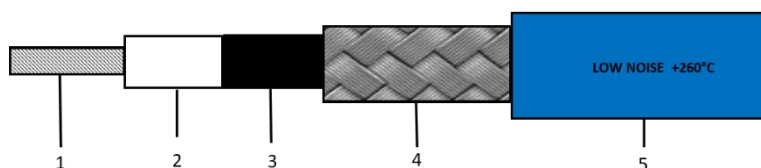
Strain Relief –
NASA Specification SP-R-0022A
 TML 1.0% maximum
 CVCM 0.1% maximum



10/32UNF microdot connector

Physical	Value
Body	Nickel Plated Brass
Knurl nut	Nickel Plated Brass
Centre Conductor	Gold plated brass
Insulator	PTFE
Strain relief	RT555 Modified Fluoropolymer
Temperature Range	-90°C to +260°C

Cable Electrical Properties	Value
Impedance	50 ±2Ω
Max. Capacitance	105nF/km
Max. Conductor Resistance	355Ω/km
Min. Insulation Resistance	>5000 MΩ/km
Voltage rating	500VAC
Test voltage	3kV DC
Max. Attenuation	108dB/100m
Temp rating	-90°C to +260°C
Min Bending radius	Fixed: 10mm
Min Bending radius	Flexing: 20mm



Layer	Description	Material	Overall diameter
1	Central conductor – multi strand	Silver plated high strength copper 30AWG (7/0.102mm)	0.30mm
2	Dielectric/Insulation	PTFE	0.85mm ±0.05mm
3	Low noise semi conductive coating		
4	Screen/Outer conductor	Silver Plated Copper Braid Greater than 96% coverage	1.6mm
5	Outer jacket	PFA	2mm nom.

Due to continued product development Kemo Limited reserve the right to change specification without notice.

Kemo Limited

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