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## Low Noise, High Impedance Cable Assemblies



Microdot to Microdot



Microdot to BNC

## Cable Assemblies for Voltage Mode Sensors



Microdot to BNC



Microdot to Microdot

## Instrument 'Output' Cables



BNC to BNC

### FEATURES

- Low noise, high impedance cables with conductive coated dielectric for charge mode sensors. Reduce 'tribo-electric' effect induced output variations
- Choice of Microdot 10-32, BNC, TNC connectors from world-class suppliers like Tyco, Rosenberger or equivalent.
- MIL-39012 conformant
- Drop-in equivalents to common Kistler, PCB, Dytran types readily available
- Imported cables, MIL-C-17 conformant

### APPLICATIONS

- Sensor cables for accelerometers
- Sensor cables for use with force, torque and strain sensors.
- High Impedance, low noise cables are for use with charge mode sensors
- Voltage mode cables are for use with sensors of the type voltage mode
- Output cables are used to connect the output jacks of power units & read out units. BNC(M) connectors on both side are typically used

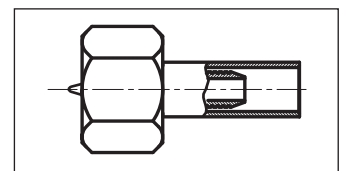
### EQUIVALENT TO CABLES FROM

- Kistler
- Dytran
- PCB

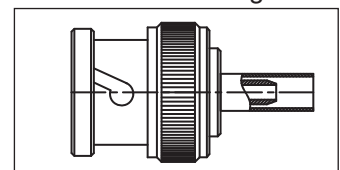
## Connectors Choices for our Sensor Cables

Specifications	Microdot (50Ω)	BNC (50Ω)
Center Conductor	Brass, Gold plated	Brass, Gold plated
Body	Brass, Gold plated	Brass, Flash white bronze over silver
Nominal Impedance	50 Ω	
Mating/Unmating	≥ 500	
Vibration	MIL-STD-202, Meth. 204, Cond. B	
Mechanical Shock	MIL-STD-202, Meth. 213	
Thermal Shock	MIL-STD-202, Meth. 107, Cond. B	
Corrosion	MIL-STD-202, Meth. 101, Cond. B	
Moisture resistance	MIL-STD-202, Meth. 106	
Temperature	-65°C to +125°C	

10-32 Microdot Plug



BNC 50Ω Plug

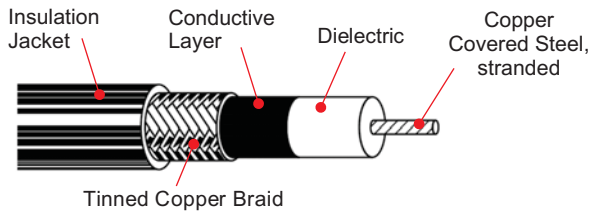


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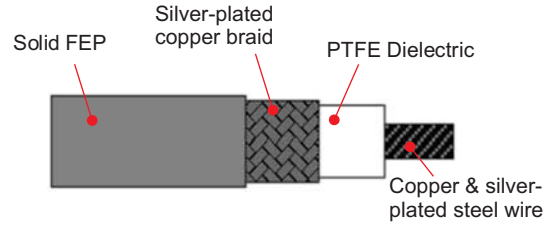
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# RG316 & RG178 Cable Sets for PCB & Panel Applications

Sensor cables from us incorporate best in class imported MIL-C-17 cables



High Impedance, Low Noise  
Cables for Charge Mode Sensors



Cables for Voltage  
Mode Sensors

Parameter	196L (Low Noise)	178	923L (Low Noise)
Cable Outer Diameter	2 mm (0.078 inch)	1.8 mm (0.071 inch)	2.5 mm (0.101 inch)
Center Conductor	7x0.1mm Copper-and silver plated steel wire	(7x0.004 inch) Copper silver plated steel wire	7x0.16mm Copper Covered Steel
Dielectric	PTFE	PTFE	PE
Inner Shield	Semi-Conductive	-	Semi-Conductive
Outer Shield	Silver-plated Cu wire braid	Silver-plated copper	Tinned Copper Braid
Jacket	PFA	FEP	Black PVC
Min. Bend Radius	5 mm	10 mm	9.7 Kg/Km
Weight	< 10 kg/km	9 Kg/Km	-
Temp. Range	-55 ...200°C	-55°C - +200°C	-40°C - +60°C
<b>Electrical Specifications</b>			
Impedance	50 Ω	50 Ω	50 Ω
Capacitance	28.6 pF/m	29.4 (pF/ft)	38 (pF/ft)
Noise Level (P-P)	-	-	5 mV
Nominal Outer Shield DC Resistance @20°C	< 45 Ω / Km < 13.8 Ω /1000 ft	- -	< 46 Ω / Km < 14Ω /1000 ft
Velocity of Propagation	70%	-	62%
Shielding Effectiveness	90%	-	90%
Attenuation (dB/100 feet)	-	14 (100 MHz) ; 30 (400 MHz); 48 (1 GHz)	-

## Ordering Codes Description

(Cable type)      (Length)      (Connector 1)      (Connector 2)  
 □ □ - □ □ - □ (□ / □) - □ (□ / □) - □  
**C C**      **L L**      **1 2 3**      **1 2 3 U**

<b>C C</b>	Cable type	196L ; RG178 ; 923L ; LL58
<b>L L</b>	Length	0.5 = 0.5 ; 1 = 1.0
<b>1</b>	Connector Designator	Microdot = MD ; BNC = BNC; TNC = TNC
<b>2</b>	Male/Female Designator	M = Male ; F = Female
<b>3</b>	Orientation of Connector	ST = Straight ; RA = Right Angle
<b>U</b>	Unit of Length	I = Inch; M= Meter; F = Feet; CM = centimeter

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## Low Noise, High Impedance Cable Sets for Charge Mode Sensors

Kistler P/N	Cable Type	Sona P/N	Connector 1	Connector 2	Length
1635C0.5	Low Noise, approx 2mm OD	196L-0.5-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	0.5 m
1635C1	Low Noise, approx 2mm OD	196L-1-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	1 m
1635C2	Low Noise, approx 2mm OD	196L-2-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	2 m
1635C5	Low Noise, approx 2mm OD	196L-5-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	5 m
1635C10	Low Noise, approx 2mm OD	196L-10-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	10 m
1635CSP15	Low Noise, approx 2mm OD	196L-15-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	15 m
1631C0.5	Low Noise, approx 2mm OD	196L-0.5-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC(M)	0.5 m
1631C1	Low Noise, approx 2mm OD	196L-1-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC(M)	1 m
1631C2	Low Noise, approx 2mm OD	196L-2-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC(M)	2 m
1631C3	Low Noise, approx 2mm OD	196L-3-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC(M)	3 m
1631C5	Low Noise, approx 2mm OD	196L-5-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC(M)	5 m
1631C10	Low Noise, approx 2mm OD	196L-10-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC(M)	10 m
1631C20	Low Noise, approx 2mm OD	196L-20-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC(M)	20 m
1631CSP50	Low Noise, approx 2mm OD	196L-50-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC(M)	50 m
1633C0.5	Low Noise, app. 2mm OD	196L-0.5-MD(M/ST)-TNC(M/ST)-M	Microdot 10-32 (M)	TNC(M)	0.5 m
1633C1	Low Noise, app. 2mm OD	196L-1-MD(M/ST)-TNC(M/ST)-M	Microdot 10-32 (M)	TNC(M)	1 m
1633C2	Low Noise, app. 2mm OD	196L-2-MD(M/ST)-TNC(M/ST)-M	Microdot 10-32 (M)	TNC(M)	2 m
1633C5	Low Noise, app. 2mm OD	196L-5-MD(M/ST)-TNC(M/ST)-M	Microdot 10-32 (M)	TNC(M)	5 m
1633CSP10	Low Noise, app. 2mm OD	196L-10-MD(M/ST)-TNC(M/ST)-M	Microdot 10-32 (M)	TNC(M)	10 m
1633CSP25	Low Noise, app. 2mm OD	196L-25-MD(M/ST)-TNC(M/ST)-M	Microdot 10-32 (M)	TNC(M)	25 m
1601B1	Low Noise, < 3mm OD	923L-1-BNC(M/ST)-BNC(M/ST)-M	BNC(M)	BNC(M)	1 m
1601B2	Low Noise, < 3mm OD	923L-2-BNC(M/ST)-BNC(M/ST)-M	BNC(M)	BNC(M)	2 m
1601B5	Low Noise, < 3mm OD	923L-5-BNC(M/ST)-BNC(M/ST)-M	BNC(M)	BNC(M)	5 m
1601B10	Low Noise, < 3mm OD	923L-10-BNC(M/ST)-BNC(M/ST)-M	BNC(M)	BNC(M)	10 m
1601B20	Low Noise, < 3mm OD	923L-20-BNC(M/ST)-BNC(M/ST)-M	BNC(M)	BNC(M)	20 m
1601BSP50	Low Noise, < 3mm OD	923L-50-BNC(M/ST)-BNC(M/ST)-M	BNC(M)	BNC(M)	50 m
1603B2	Low Noise, < 3mm OD	923L-2-BNC(F/ST)-BNC(M/ST)-M	BNC(F)	BNC(M)	2 m
1603B5	Low Noise, < 3mm OD	923L-5-BNC(F/ST)-BNC(M/ST)-M	BNC(F)	BNC(M)	5 m
1603B10	Low Noise, < 3mm OD	923L-10-BNC(F/ST)-BNC(M/ST)-M	BNC(F)	BNC(M)	10 m
1603B20	Low Noise, < 3mm OD	923L-20-BNC(F/ST)-BNC(M/ST)-M	BNC(F)	BNC(M)	20 m
1603BSP25	Low Noise, < 3mm OD	923L-25-BNC(F/ST)-BNC(M/ST)-M	BNC(F)	BNC(M)	25 m
1603B50	Low Noise, < 3mm OD	923L-50-BNC(F/ST)-BNC(M/ST)-M	BNC(F)	BNC(M)	50 m
1609B2	Low Noise, < 3mm OD	923L-2-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	2 m
1609B5	Low Noise, < 3mm OD	923L-5-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	5 m
1609B10	Low Noise, < 3mm OD	923L-10-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	10 m
1609B20	Low Noise, < 3mm OD	923L-20-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	20 m
1609B50	Low Noise, < 3mm OD	923L-50-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	50 m
1610A2	Low Noise, approx 2mm OD	196L-2-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	2 m
1610A5	Low Noise, approx 2mm OD	196L-5-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	5 m
1610A10	Low Noise, approx 2mm OD	196L-10-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	10m
1610ASP20	Low Noise, approx 2mm OD	196L-20-TNC(M/ST)-BNC(M/ST)-M	TNC(M)	BNC(M)	20m

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## RG316 & RG178 Cable Sets for PCB & Panel Applications

### Cable Sets for Voltage Mode Sensors

Kistler P/N	Sona P/N	Connector 1	Connector 2	Length
1761B1	RG178-1-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC (M)	1 m
1761B2	RG178-2-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC (M)	2 m
1761B3	RG178-3-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC (M)	3 m
1761B5	RG178-5-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC (M)	5 m
1761BSP20	RG178-20-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC (M)	20 m
1761BSP50	RG178-50-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC (M)	50 m
1761BSP100	RG178-100-MD(M/ST)-BNC(M/ST)-M	Microdot 10-32 (M)	BNC (M)	100 m
1762B1	RG178-1-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	1 m
1762B2	RG178-2-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	2 m
1762B3	RG178-3-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	3 m
1762B5	RG178-5-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	5 m
1762BSP20	RG178-20-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	20 m
1762BSP50	RG178-50-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	50 m
1762BSP100	RG178-100-MD(M/ST)-MD(M/ST)-M	Microdot 10-32 (M)	Microdot 10-32 (M)	100 m

### Cable Sets for Instrument Output & Distribution Boxes

Cable Type	Sona P/N	Connector 1	Connector 2	Length
LL58	LL58-0.5-BNC(M/ST)-BNC-(M/ST)-M	BNC(M)	BNC(M)	0.5 m
LL58	LL58-1-BNC(M/ST)-BNC-(M/ST)-M	BNC(M)	BNC(M)	1 m
LL58	LL58-2-BNC(M/ST)-BNC-(M/ST)-M	BNC(M)	BNC(M)	2 m
LL58	LL58-3-BNC(M/ST)-BNC-(M/ST)-M	BNC(M)	BNC(M)	3 m
LL58	LL58-0.5-BNC(M/ST)-BNC-(M/ST)-F	BNC(M)	BNC (M)	0.5 feet
LL58	LL58-1-BNC(M/ST)-BNC-(M/ST)-F	BNC(M)	BNC (M)	1 feet
LL58	LL58-1.5-BNC(M/ST)-BNC-(M/ST)-F	BNC(M)	BNC (M)	1.5 feet
LL58	LL58-2-BNC(M/ST)-BNC-(M/ST)-F	BNC(M)	BNC(M)	2 feet

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