

### OVERVIEW

Metrix\* MX8031 extension cables are available with and without protective armor and feature VibeLock™ and Triaxial Cables. They are compatible with all Metrix\* MX8030 series 5mm & 8mm probe systems, and Bently Nevada\*\* (BN) 3300 / 3300XL 5mm & 8mm probe systems.

All Metrix\* MX8031 extension cables are part of the 10000 series part number designation for agency approvals. The 10000 series P/N will appear on the product's label along with the MX8031 p/n. e.g. MX8031-AAA-BB-CC = 10300-AAA-BB-CC.



### MX8031-AAA-BB-CC (5mm/8mm Extension Cable)

A	A	A	Cable Length	B	B	Cable Armor
0	3	0	3.0 meters	0	0	No Armor
0	3	5	3.5 meters	0	1	Armor
0	4	0	4.0 meters	0	1PVC	Armor with PVC Jacket
0	4	5	4.5 meters	C	C	Approvals***
0	6	0	6.0 meters	0	0	None
0	6	5	6.5 meters	0	5	CSA, ATEX, IECEx
0	7	0	7.0 meters			
0	7	5	7.5 meters			
0	8	0	8.0 meters			
0	8	5	8.5 meters			

\*\*\*For SIL approval, replace the first character in Option CC with an "S". Agency approvals for Armor with PVC Jacket are "pending".

### ENVIRONMENTAL

#### Operating and Storage Temperature:

Probe: -51°C to +177°C (-60°F to +350 °F)  
 Extension Cable: -51°C to +177°C (-60°F to +350°F)  
 Driver or Transmitter: -40°C to +85°C (-40°F to +185°F)

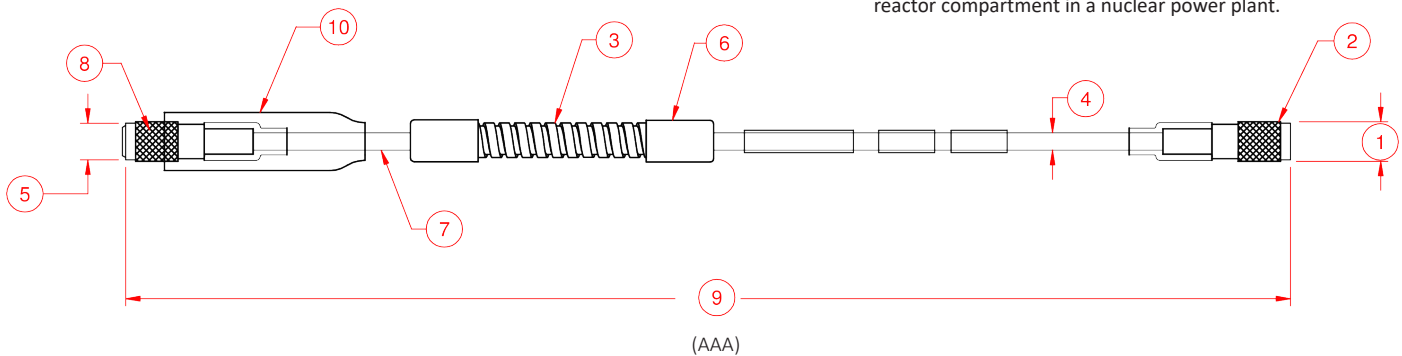
**Relative Humidity:** 95%, non-condensing

**Probe tip-to-case Pressure Rating:** 8mm Probe 68 bar (1000 psi)

**Patents:** Digital performance curve technology in driver and transmitter: US patent number 7768258.

**NOTE:** MX8031 Extension Cables can be used in a cryogenic fluid to -192°C (-313°F).

MX8031 Extension Cable radiation exposure limit is 1.5 x 10<sup>6</sup> Rads (expected 30-yr dose). These cables are suitable for use in a reactor compartment in a nuclear power plant.



MX8031 Extension Cable

- NOTES:
- 7.37mm (0.290") max. outside diameter.
  - Miniature male VibeLock™ triaxial connector, round, knurled.
  - Optional cable protective armor (option BB=01) – 6.99mm (0.275") max. outside diameter. Armor length is 305mm (12.0") less than cable length. Armor material is 304 stainless steel.
  - 75Ω cable – 3.70mm (0.146") max. outside diameter.
  - 7.37mm (0.290") max. outside diameter.
  - Armor ferrule is 303 stainless steel. 8.89mm (0.350") max. outside diameter.
  - Ethylene-tetrafluoroethylene (ETFE) insulated triaxial cable.
  - Miniature female VibeLock™ coaxial connector, round, knurled.
  - Total length (option AAA), + 25%, -0%.
  - Fluorosilicone connector insulator boot. 13mm (0.51") max. outside diameter 50mm (2.00") max. length. Insulator boot is not designed to seal against moisture ingress. It is provided for electrical insulation of connectors from inadvertent contact with conduit, junction boxes, and other metal objects.

\*Registered trademark(s) of Metrix Instrument Co.®.

\*\*Registered trademark(s) of Bently Nevada®.

## SAFETY INTEGRITY LEVEL

SIL is a method or measurement unit to determine the reliability of electrical, electronic and programmable systems. The purpose of the SIL certification is to measure safety system performance and the likelihood of failure. Achieving SIL certification, based on the IEC61508 Functional Safety Standard, signifies that the product has been thoroughly assessed and is a reliable electronic device ready to use across a wide range of industries.

Metrix DPS products have been thoroughly evaluated by an independent third party agency on the basis of IEC61508 Functional Safety standards to obtain SIL certification.

**Note:** Metrix is continuously improving our products. Please refer to our website to download the latest version of this document.

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