

# Product Structure and Model Specifications

## Micro Catheter

File No.: JMIC-MC-Model01

Version: A/0

Date: 2023-07-06

Editor:

Reviewer:

Approval: \_\_\_\_\_



## 1. Models & Variants Table

Models / Variants	Length (cm)	Distal O.D (mm)	Proximal O.D (mm)	I.D (inch)	Makers	Coating Length (cm)	Compatible Guidewire	Tip Shape
MC1171021	110	1.7F/0.64	2.4F/0.8	0.017"	2	50	0.014"	Straight
MC1171022	110	1.7F/0.64	2.4F/0.8	0.017"	2	50	0.014"	45°
MC1171023	110	1.7F/0.64	2.4F/0.8	0.017"	2	50	0.014"	90°
MC1171024	110	1.7F/0.64	2.4F/0.8	0.017"	2	50	0.014"	J Shaped
MC1173021	130	1.7F/0.64	2.4F/0.8	0.017"	2	70	0.014"	Straight
MC1173022	130	1.7F/0.64	2.4F/0.8	0.017"	2	70	0.014"	45°
MC1173023	130	1.7F/0.64	2.4F/0.8	0.017"	2	70	0.014"	90°
MC1173024	130	1.7F/0.64	2.4F/0.8	0.017"	2	70	0.014"	J Shaped
MC1175021	150	1.7F/0.64	2.4F/0.8	0.017"	2	90	0.014"	Straight
MC1175022	150	1.7F/0.64	2.4F/0.8	0.017"	2	90	0.014"	45°
MC1175023	150	1.7F/0.64	2.4F/0.8	0.017"	2	90	0.014"	90°
MC1175024	150	1.7F/0.64	2.4F/0.8	0.017"	2	90	0.014"	J Shaped
MC1241011	110	2.4F/0.8	2.8F/0.94	0.021"	1	50	0.018"	Straight
MC1241012	110	2.4F/0.8	2.8F/0.94	0.021"	1	50	0.018"	45°
MC1241013	110	2.4F/0.8	2.8F/0.94	0.021"	1	50	0.018"	90°
MC1241014	110	2.4F/0.8	2.8F/0.94	0.021"	1	50	0.018"	J Shaped
MC1243011	130	2.4F/0.8	2.8F/0.94	0.021"	1	70	0.018"	Straight
MC1243012	130	2.4F/0.8	2.8F/0.94	0.021"	1	70	0.018"	45°
MC1243013	130	2.4F/0.8	2.8F/0.94	0.021"	1	70	0.018"	90°
MC1243014	130	2.4F/0.8	2.8F/0.94	0.021"	1	70	0.018"	J Shaped
MC1245011	150	2.4F/0.8	2.8F/0.94	0.021"	1	90	0.018"	Straight
MC1245012	150	2.4F/0.8	2.8F/0.94	0.021"	1	90	0.018"	45°
MC1245013	150	2.4F/0.8	2.8F/0.94	0.021"	1	90	0.018"	90°
MC1245014	150	2.4F/0.8	2.8F/0.94	0.021"	1	90	0.018"	J Shaped
MC1241021	110	2.4F/0.8	2.8F/0.94	0.021"	2	50	0.018"	Straight
MC1241022	110	2.4F/0.8	2.8F/0.94	0.021"	2	50	0.018"	45°
MC1241023	110	2.4F/0.8	2.8F/0.94	0.021"	2	50	0.018"	90°
MC1241024	110	2.4F/0.8	2.8F/0.94	0.021"	2	50	0.018"	J Shaped
MC1243021	130	2.4F/0.8	2.8F/0.94	0.021"	2	70	0.018"	Straight
MC1243022	130	2.4F/0.8	2.8F/0.94	0.021"	2	70	0.018"	45°
MC1243023	130	2.4F/0.8	2.8F/0.94	0.021"	2	70	0.018"	90°
MC1243024	130	2.4F/0.8	2.8F/0.94	0.021"	2	70	0.018"	J Shaped
MC1245021	150	2.4F/0.8	2.8F/0.94	0.021"	2	90	0.018"	Straight
MC1245022	150	2.4F/0.8	2.8F/0.94	0.021"	2	90	0.018"	45°
MC1245023	150	2.4F/0.8	2.8F/0.94	0.021"	2	90	0.018"	90°
MC1245024	150	2.4F/0.8	2.8F/0.94	0.021"	2	90	0.018"	J Shaped
MC1273521	135	2.7F/0.92	2.9F/0.97	0.027"	2	70	0.021"	Straight
MC1273522	135	2.7F/0.92	2.9F/0.97	0.027"	2	70	0.021"	45°
MC1273523	135	2.7F/0.92	2.9F/0.97	0.027"	2	70	0.021"	90°
MC1273524	135	2.7F/0.92	2.9F/0.97	0.027"	2	70	0.021"	J Shaped
MC1275021	150	2.7F/0.92	2.9F/0.97	0.027"	2	90	0.021"	Straight
MC1275022	150	2.7F/0.92	2.9F/0.97	0.027"	2	90	0.021"	45°
MC1275023	150	2.7F/0.92	2.9F/0.97	0.027"	2	90	0.021"	90°

MC1275024	150	2.7F/0.92	2.9F/0.97	0.027"	2	90	0.021"	J Shaped
MC1281011	110	2.8F/0.94	3.0F/1.0	0.027"	1	50	0.021"	Straight
MC1281012	110	2.8F/0.94	3.0F/1.0	0.027"	1	50	0.021"	45°
MC1281013	110	2.8F/0.94	3.0F/1.0	0.027"	1	50	0.021"	90°
MC1281014	110	2.8F/0.94	3.0F/1.0	0.027"	1	50	0.021"	J Shaped
MC1283011	130	2.8F/0.94	3.0F/1.0	0.027"	1	70	0.021"	Straight
MC1283012	130	2.8F/0.94	3.0F/1.0	0.027"	1	70	0.021"	45°
MC1283013	130	2.8F/0.94	3.0F/1.0	0.027"	1	70	0.021"	90°
MC1283014	130	2.8F/0.94	3.0F/1.0	0.027"	1	70	0.021"	J Shaped
MC1285011	150	2.8F/0.94	3.0F/1.0	0.027"	1	90	0.021"	Straight
MC1285012	150	2.8F/0.94	3.0F/1.0	0.027"	1	90	0.021"	45°
MC1285013	150	2.8F/0.94	3.0F/1.0	0.027"	1	90	0.021"	90°
MC1285014	150	2.8F/0.94	3.0F/1.0	0.027"	1	90	0.021"	J Shaped
MC1293521	135	2.9F/0.97	3.2F/1.06	0.029"	2	70	0.021"	Straight
MC1293522	135	2.9F/0.97	3.2F/1.06	0.029"	2	70	0.021"	45°
MC1293523	135	2.9F/0.97	3.2F/1.06	0.029"	2	70	0.021"	90°
MC1293524	135	2.9F/0.97	3.2F/1.06	0.029"	2	70	0.021"	J Shaped
MC1295021	150	2.9F/0.97	3.2F/1.06	0.029"	2	90	0.021"	Straight
MC1295022	150	2.9F/0.97	3.2F/1.06	0.029"	2	90	0.021"	45°
MC1295023	150	2.9F/0.97	3.2F/1.06	0.029"	2	90	0.021"	90°
MC1295024	150	2.9F/0.97	3.2F/1.06	0.029"	2	90	0.021"	J Shaped
MC2171021	110	1.7F/0.64	2.4F/0.8	0.017"	2	50	0.014"	Straight
MC2171022	110	1.7F/0.64	2.4F/0.8	0.017"	2	50	0.014"	45°
MC2171023	110	1.7F/0.64	2.4F/0.8	0.017"	2	50	0.014"	90°
MC2171024	110	1.7F/0.64	2.4F/0.8	0.017"	2	50	0.014"	J Shaped
MC2173021	130	1.7F/0.64	2.4F/0.8	0.017"	2	70	0.014"	Straight
MC2173022	130	1.7F/0.64	2.4F/0.8	0.017"	2	70	0.014"	45°
MC2173023	130	1.7F/0.64	2.4F/0.8	0.017"	2	70	0.014"	90°
MC2173024	130	1.7F/0.64	2.4F/0.8	0.017"	2	70	0.014"	J Shaped
MC2175021	150	1.7F/0.64	2.4F/0.8	0.017"	2	90	0.014"	Straight
MC2175022	150	1.7F/0.64	2.4F/0.8	0.017"	2	90	0.014"	45°
MC2175023	150	1.7F/0.64	2.4F/0.8	0.017"	2	90	0.014"	90°
MC2175024	150	1.7F/0.64	2.4F/0.8	0.017"	2	90	0.014"	J Shaped
MC2201011	110	2.0F/0.69	2.7F/0.92	0.019"	1	50	0.014"	Straight
MC2203011	130	2.0F/0.69	2.7F/0.92	0.019"	1	70	0.014"	Straight
MC2203012	130	2.0F/0.69	2.7F/0.92	0.019"	1	70	0.014"	45°
MC2203013	130	2.0F/0.69	2.7F/0.92	0.019"	1	70	0.014"	90°
MC2203014	130	2.0F/0.69	2.7F/0.92	0.019"	1	70	0.014"	J Shaped
MC2205011	150	2.0F/0.69	2.7F/0.92	0.019"	1	90	0.014"	Straight
MC2205012	150	2.0F/0.69	2.7F/0.92	0.019"	1	90	0.014"	45°
MC2205013	150	2.0F/0.69	2.7F/0.92	0.019"	1	90	0.014"	90°
MC2205014	150	2.0F/0.69	2.7F/0.92	0.019"	1	90	0.014"	J Shaped
MC2241011	110	2.4F/0.8	2.9F/0.97	0.022"	1	50	0.018"	Straight
MC2243011	130	2.4F/0.8	2.9F/0.97	0.022"	1	70	0.018"	Straight
MC2243012	130	2.4F/0.8	2.9F/0.97	0.022"	1	70	0.018"	45°
MC2243013	130	2.4F/0.8	2.9F/0.97	0.022"	1	70	0.018"	90°
MC2243014	130	2.4F/0.8	2.9F/0.97	0.022"	1	70	0.018"	J Shaped

MC2245021	150	2.4F/0.8	2.9F/0.97	0.022"	2	90	0.018"	Straight
MC2245022	150	2.4F/0.8	2.9F/0.97	0.022"	2	90	0.018"	45°
MC2245023	150	2.4F/0.8	2.9F/0.97	0.022"	2	90	0.018"	90°
MC2245024	150	2.4F/0.8	2.9F/0.97	0.022"	2	90	0.018"	J Shaped
MC2223021	130	2.2F/0.75	2.7F/0.92	0.021"	2	70	0.018"	Straight
MC2223022	130	2.2F/0.75	2.7F/0.92	0.021"	2	70	0.018"	45°
MC2223023	130	2.2F/0.75	2.7F/0.92	0.021"	2	70	0.018"	90°
MC2223024	130	2.2F/0.75	2.7F/0.92	0.021"	2	70	0.018"	J Shaped
MC2225021	150	2.2F/0.75	2.7F/0.92	0.021"	2	90	0.018"	Straight
MC2225022	150	2.2F/0.75	2.7F/0.92	0.021"	2	90	0.018"	45°
MC2225023	150	2.2F/0.75	2.7F/0.92	0.021"	2	90	0.018"	90°
MC2225024	150	2.2F/0.75	2.7F/0.92	0.021"	2	90	0.018"	J Shaped
MC2273511	135	2.7F/0.92	2.9F/0.97	0.027"	1	70	0.021"	Straight
MC2273521	135	2.7F/0.92	2.9F/0.97	0.027"	2	70	0.021"	Straight
MC2273522	135	2.7F/0.92	2.9F/0.97	0.027"	2	70	0.021"	45°
MC2273523	135	2.7F/0.92	2.9F/0.97	0.027"	2	70	0.021"	90°
MC2273524	135	2.7F/0.92	2.9F/0.97	0.027"	2	70	0.021"	J Shaped
MC2275011	150	2.7F/0.92	2.9F/0.97	0.027"	1	90	0.021"	Straight
MC2275021	150	2.7F/0.92	2.9F/0.97	0.027"	2	90	0.021"	Straight
MC2275022	150	2.7F/0.92	2.9F/0.97	0.027"	2	90	0.021"	45°
MC2275023	150	2.7F/0.92	2.9F/0.97	0.027"	2	90	0.021"	90°
MC2275024	150	2.7F/0.92	2.9F/0.97	0.027"	2	90	0.021"	J Shaped
MC2281011	110	2.8F/0.94	3.0F/1.0	0.027"	1	50	0.021"	Straight
MC2283011	130	2.8F/0.94	3.0F/1.0	0.027"	1	70	0.021"	Straight
MC2285011	150	2.8F/0.94	3.0F/1.0	0.027"	1	90	0.021"	Straight
MC2285021	150	2.8F/0.94	3.0F/1.0	0.027"	2	90	0.021"	Straight
MC2293521	135	2.9F/0.97	3.2F/1.06	0.029"	2	70	0.021"	Straight
MC2293522	135	2.9F/0.97	3.2F/1.06	0.029"	2	70	0.021"	45°
MC2293523	135	2.9F/0.97	3.2F/1.06	0.029"	2	70	0.021"	90°
MC2293524	135	2.9F/0.97	3.2F/1.06	0.029"	2	70	0.021"	J Shaped
MC2295021	150	2.9F/0.97	3.2F/1.06	0.029"	2	90	0.021"	Straight
MC2295022	150	2.9F/0.97	3.2F/1.06	0.029"	2	90	0.021"	45°
MC2295023	150	2.9F/0.97	3.2F/1.06	0.029"	2	90	0.021"	90°
MC2295024	150	2.9F/0.97	3.2F/1.06	0.029"	2	90	0.021"	J Shaped

## 2. Product Composition

### 2.1 Product Composition

The microcatheter consists of a catheter hub, catheter protective sheath, and catheter body (including radiopaque marker, metal wire, PTFE lining, outer tubing, hydrophilic coating), as detailed in Figure 1-1.

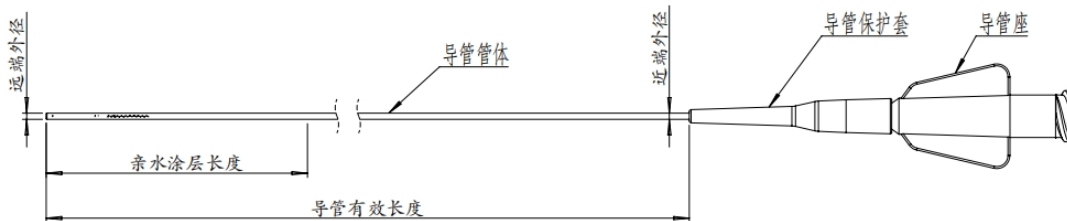


Figure 1-1: Schematic Diagram of Product Structure

The catheter body is divided into two types based on the different braiding patterns of the metal wire. Schematic diagrams of the two types are shown in Figure 1-2.

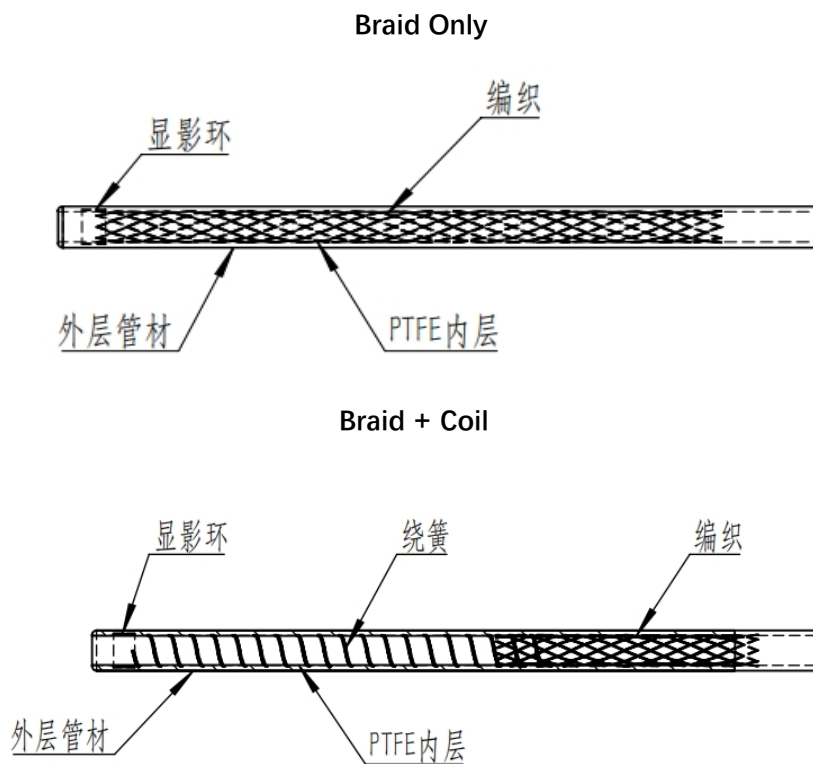
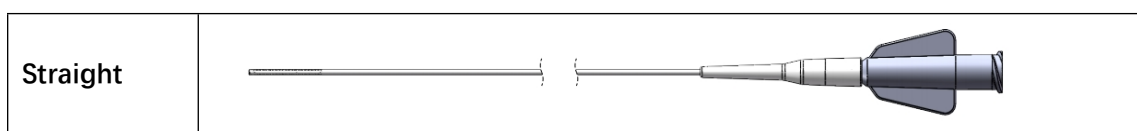
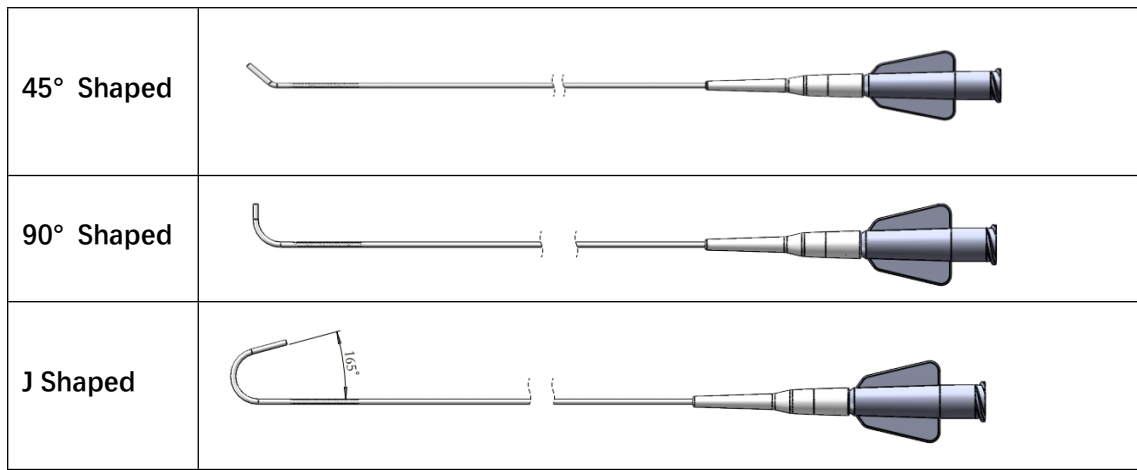


Figure 1-2 Catheter Body Structure Demonstration

Microcatheters have four different distal end shapes, namely:





## 2.2 Microcatheter Components

Component Name		Raw Material
Catheter Hub		Polyamide 12 (PA12)
Catheter Handle		Thermoplastic polyurethane (TPU)
Catheter Body	Inner Surface	Polytetrafluoroethylene (PTFE)
	Braiding	SUS304 Stainless Steel SUS 304
	Outer Surface	thermoplastic elastomer (PEBAX), PA12
	Marker	10%Platinum 90%/Iridium 10%
Hydrophilic Coating		Methyl methacrylate
		Polyvinylpyrrolidone (PVP)
Accessories		
Shaping Mandrel		SUS304
		Stainless Steel SUS 304