iMATE™ SERIES

Circular Plastic Connector with Bayonet Quick-Connect Coupling

PRODUCT SPECIFICATIONS:	iMATE 17	iMATE 23	iMATE 28	iMATE 36
Materials:				
Plug Housing	Glass Filled PBT			
Coupling Nut	PA66	Glass Filled PBT		
Receptacle Housing	Glass Filled PBT			
Jam Nut	Glass Filled PBT			
Mounting Gasket	Neoprene			
Contacts	CU Alloy, Gold Over Nickel Plating			
Connector Interface Sealing O-Ring	Silicone			
Overmold	Overmold Material will vary depending on cable selection (PVC, TPU, or other)			
Dimensions:				
Receptacle D Hole Mounting	0.42” dia. / 0.39” *	0.60” dia. / 0.57” *	0.79” dia. / 0.75” *	0.91” dia. /0.97” *
Basic Plug Max. OD Over coupling Nut	0.59”	0.75”	0.94”	1.13”
In-Line Receptacle Max OD	0.53”	0.68”	0.87”	1.00”
Overmold Length with Strain Relief	1.15”	1.52”	1.57”	1.95”
Max Cable Diameter	0.35”	0.35”	0.50”	0.63”
Contact Sizes Available (max. #)	#20 (3)	#20 (8), #16 (5)	#20 (14), #16 (6), #12 (4)	#20 (18,20), #16 (12), #12 (7)
Performance:				
Ingress Protection	IP67, IP68, IP69K			
Voltage Rating (RMS)	300V			
Amperage Rating	Up to 7A	Up to 13A	Up to 23A	Up to 23A
Max Continuous Temperature	Overmold material and wire / cable selection will influence the overall max temperature rating of the assembly (80—105 degrees C)			

OPTIONS:

- ⇒ Crimp or PC Tail Contacts
- ⇒ Straight/right angle overmolds (with/without strain relief)
- ⇒ Male or Female contacts
- ⇒Coupling rings are available in a variety of colors
- ⇒Female Inserts incorporate a closed entry design
- ⇒Connectors feature blue silicone O-rings for visibility

* First Dimension is product diameter, second is to the flat.

For more details, please visit our website, or contact us:

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CUSTOM ENGINEERED SOLUTIONS

iCONN SYSTEMS, LLC an R2M co.

CAPABILITIES

3D Modeling Software

Electrical, Mechanical, and Environmental Testing Capabilities

Vertical Integration Capabilities

Overmolding / Insert Molding
Component Molding
Low Pressure Molding
Selective Soldering
-PCBs, Flex Circuits
CNC Swiss Screw Machining
Various CNC Machining Capabilities

3D Printer Rapid Prototyping

FEATURES

MADE IN THE USA

IP RATED
(67, 68, 69K)

5 Step Custom Engineered Solutions

STEP ONE:
RESEARCH AND STRATEGY

STEP TWO:
DESIGN ENGINEERING

STEP THREE:
PROTOTYPE / PRE-PRODUCTION / ENVIRONMENTAL / MECHANICAL ANALYSIS

STEP FOUR:
PRODUCTION

STEP FIVE:
QUALITY

UL
ISO 9001
IEC
ITAR
REACH COMPLIANCE
Conflict Minerals FREE
RoHS Compliant

For more details, please visit our website, or contact us:

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