

M12 SERIES

# M12 overmolded female solder termination straight-knurled screw

CIRCULAR CONNECTOR / PRODUCT FAMILY GUIDE



PRODUCT FAMILY CODE

**M12A0X-08-081**

7 ORDERABLE PART NUMBERS / 2 / 3 / 4 / 5 / 6 / 7 / 8 CONTACTS / A-CODE / IP67 / IP68

# Product Overview



## M12 SERIES / PRODUCT FAMILY

### M12 overmolded female solder termination straight-knurled screw

#### M12A0X-08-081

WLconnectivity's m12 overmolded female solder termination straight-knurled screw family consolidates 7 exact orderable configurations covering 2, 3, 4, 5, 6, 7, 8-contact options. The configurations share the product platform and engineering references shown in this manual; exact selection details are listed in the ordering table.

## Technical Specifications

|                       |                                              |
|-----------------------|----------------------------------------------|
| Wire size             | 0.14 mm <sup>2</sup> to 0.75 mm <sup>2</sup> |
| Wire gauge            | 26 AWG to 18 AWG                             |
| Standard              | IEC 61076-2-101                              |
| Termination           | Solder                                       |
| Locking system        | threaded locking                             |
| Degree of protection  | IP67 / IP68                                  |
| Mechanical durability | 500 cycles                                   |
| Operating temperature | -25 °C to +85 °C                             |
| Contact resistance    | ≤ 10 mΩ                                      |
| Insulation resistance | ≥ 1000 MΩ                                    |
| Housing material      | PA66 nylon                                   |
| Contact material      | gold-plated brass                            |
| Screw material        | Al Alloy Black / Silver                      |
| Gasket material       | Fluorine Ring                                |

# Configuration-specific Ratings

Electrical values that vary by contact count and coding

| CONTACTS      | CODING | RATED CURRENT | RATED VOLTAGE |
|---------------|--------|---------------|---------------|
| 2 / 3 / 4 / 5 | A-code | 4 A           | 60 V          |
| 6 / 7 / 8     | A-code | 2 A           | 30 V          |

# Ordering Information

All exact orderable part numbers for this product family

## FAMILY CODE M12A0X-08-081

7 orderable part numbers

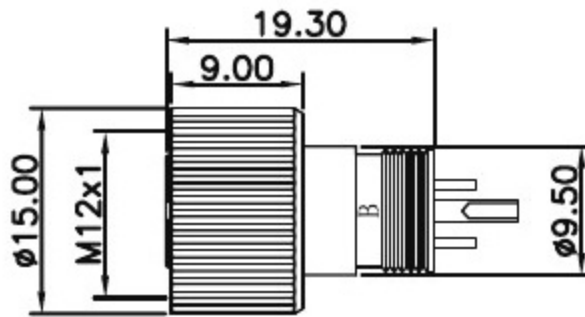
| NO. | CONTACTS | CODING | CABLE OPTION | PART NUMBER   |
|-----|----------|--------|--------------|---------------|
| 1   | 2        | A-code | -            | M12A02-08-081 |
| 2   | 3        | A-code | -            | M12A03-08-081 |
| 3   | 4        | A-code | -            | M12A04-08-081 |
| 4   | 5        | A-code | -            | M12A05-08-081 |
| 5   | 6        | A-code | -            | M12A06-08-081 |
| 6   | 7        | A-code | -            | M12A07-08-081 |
| 7   | 8        | A-code | -            | M12A08-08-081 |

# Engineering Reference

Shared dimensional and pin-assignment reference for this product family

## DIMENSIONAL REFERENCE

DIMENSIONS IN MILLIMETRES



## PIN ASSIGNMENT / FRONT VIEW

Contacts: 2 / 3 / 4 / 5 / 6 / 7 / 8 / Coding: A-code

