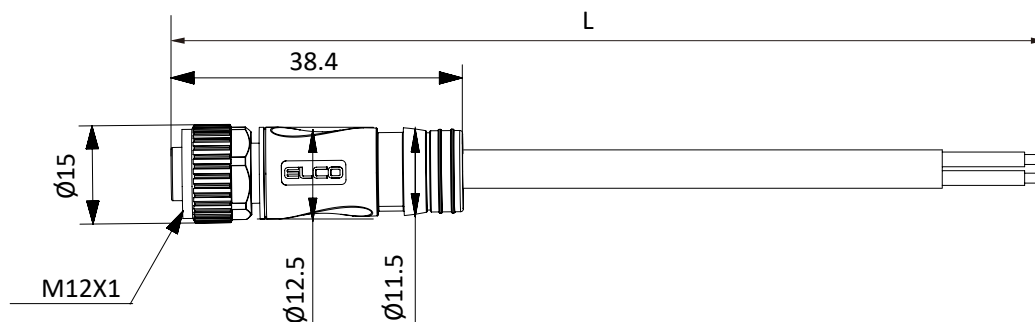
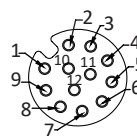




## ARTICLE PROPERTIES

|                |                       |
|----------------|-----------------------|
| ARTICLE NUMBER | CO12.12-X.YY*         |
| SHAPE TYPE 1   | Female, M12, straight |
| SHAPE TYPE 2   | single-ended          |
| NUMBER OF PINS | 12                    |
| INTERFACE TYPE | A                     |



## MECHANICAL DATA

|                   |                                 |
|-------------------|---------------------------------|
| LOCKING           | union nut, SW13, vibration lock |
| MATERIAL LOCKING  | Zinc die casting, nickel plated |
| TIGHTENING TORQUE | 0.6 Nm                          |
| LOCKING           |                                 |
| MATERIAL GRIP     | PUR                             |
| SYSTEM            | moulded                         |

## ELECTRICAL DATA

|                     |                   |
|---------------------|-------------------|
| OPERATING VOLTAGE   | 30 V DC / 30 V AC |
| RATED CURRENT       | 1.5 A             |
| INSULATION RESISTOR | > 100 MΩ          |
| POLLUTION DEGREE    | 3                 |

## ENVIRONMENTAL CONDITIONS

|                     |                                     |
|---------------------|-------------------------------------|
| PROTECTION CLASS    | IP67 inserted and tightened         |
| AMBIENT TEMPERATURE | -30 ... +90 °C (depending on cable) |

## STANDARDS AND DIRECTIVES

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| CIRCULAR CONNECTORS | SPECIFICATION FOR M12 CONNECTORS WITH SCREW-LOCKING |
|                     | IEC 61076-2-101                                     |

## APPROVALS



## GENERAL CABLE PROPERTIES

## CABLE CONSTRUCTION (ONLY FOR PUR PRODUCT)

according to UL-AWM Style 20549

## THERMAL RESISTANCE (ONLY FOR PUR PRODUCT)

according to UL FT2

## PROTECTION CLASS

according to IEC 60529 or ISO 20653, only when screwed together with the corresponding counterpart

## CABLE LENGTHS X

All cable lengths are available on request.

## EXAMPLE:

cable lengths 0.5 m -> CO12.12-**0.5**cable lengths 10 m -> CO12.12-**10**

## TOLERANCE CABLE LENGTHS

0 m &lt; X ≤ 1.0 m +0.05 m

1.0 m &lt; X ≤ 5.0 m +0.1 m

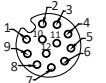
5.0 m &lt; X +0.15 m

## CABLE VARIANTS AND ASSIGNMENT OF WIRE INSULATION COLOR

| Article number cable .YY | Article number suffix * | Material jacket | Color jacket | Wire insulation | Wire cross-section            | Cable-jacket-Ø | Temperature range | Bending cycles | Torsion         | Pin variant |
|--------------------------|-------------------------|-----------------|--------------|-----------------|-------------------------------|----------------|-------------------|----------------|-----------------|-------------|
|                          |                         | PVC             | grey         | PVC             | 12 x 0.25 mm <sup>2</sup> (A) | 6.2±0.2 mm     | -40 ... +105 °C   | no             | no              | 1           |
|                          | /P                      | PUR             | grey         | PP              | 12 x 0.25 mm <sup>2</sup> (A) | 7.0±0.2 mm     | -40 ... +80 °C    | ≥ 5 Million    | max. 2 Mio. (B) | 1           |
| .22                      |                         | PVC             | black        | PVC             | 12 x 0.25 mm <sup>2</sup> (A) | 6.2±0.2 mm     | -40 ... +105 °C   | no             | no              | 1           |
|                          | /P                      | PUR             | black        | PP              | 12 x 0.25 mm <sup>2</sup> (A) | 7.0±0.2 mm     | -40 ... +80 °C    | ≥ 5 Million    | max. 2 Mio. (B) | 1           |
| .23                      |                         | PVC             | yellow       | PVC             | 12 x 0.25 mm <sup>2</sup> (A) | 6.2±0.2 mm     | -40 ... +105 °C   | no             | no              | 1           |
|                          | /P                      | PUR             | yellow       | PP              | 12 x 0.25 mm <sup>2</sup> (A) | 7.0±0.2 mm     | -40 ... +80 °C    | ≥ 5 Million    | max. 2 Mio. (B) | 1           |

(A) similar to AWG 24

(B) Frequency: 3 times/min., no lifting, ±180°

|                                                                                     | Pin variant | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6  | Pin 7 | Pin 8 | Pin 9 | Pin 10 | Pin 11      | Pin 12     |
|-------------------------------------------------------------------------------------|-------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------------|------------|
|  | 1           | brown | blue  | white | green | pink  | yellow | black | grey  | red   | violet | grey / pink | red / blue |

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