

## M12-A Circular Connector

60/125/250V 4A

## Technical characteristics

|                          | 3-pole                      | 4-pole                      | 5-pole                      |
|--------------------------|-----------------------------|-----------------------------|-----------------------------|
| Rated current (40°C )    | 4A                          | 4A                          | 4A                          |
| Rated voltage            | 250V                        | 250V                        | 125V                        |
| Rated impulse voltage    | 2500V                       | 2500V                       | 1500V                       |
| Pollution degree         | 3                           | 3                           | 3                           |
| Overvoltage categorie    | II                          | II                          | II                          |
| Contact resistance       | ≤ 10 mΩ                     | ≤ 10 mΩ                     | ≤ 10 mΩ                     |
| Connector locking system | screw M12x1                 | screw M12x1                 | screw M12x1                 |
| Termination              | crimp, moulded              | crimp, moulded              | crimp, moulded              |
| Wire gauge               | 0.34mm <sup>2</sup> (AWG22) | 0.34mm <sup>2</sup> (AWG22) | 0.25mm <sup>2</sup> (AWG24) |
| Cable outlet             | -                           | -                           | -                           |
| Degree of protection     | IP67                        | IP67                        | IP67                        |
| Mechanical operation     | > 100                       | > 100                       | > 100                       |
| Limiting temperature     | -25°C ...+85°C              | -25°C ...+85°C              | -25°C ...+85°C              |
| Material group           | II                          | II                          | II                          |
| Material of contact      | copper alloy                | copper alloy                | copper alloy                |
| Contact plating          | Au                          | Au                          | Au                          |
| Insulating material      | PA                          | PA                          | PA                          |
| Material of housing      | TPU                         | TPU                         | TPU                         |

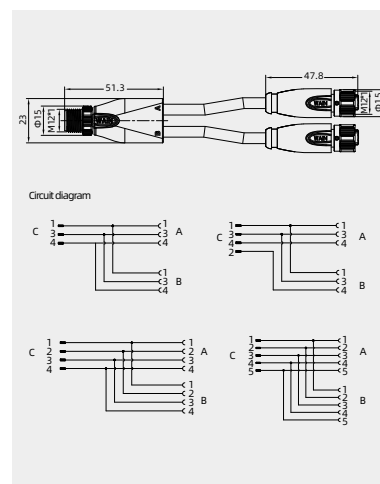
## Cable connectors-Y straight head brancher

Male cable connector

-female cable connector



| Contacts | Cable     | Cable length | Designation                   | Order No.        |
|----------|-----------|--------------|-------------------------------|------------------|
| 3        | 3x0.34PVC | 1.5 m        | M12Y-M03A/2M12-F03A-T-1.5-PVC | 171 302 003 0308 |
|          |           | 5.0 m        | M12Y-M03A/2M12-F03A-T-5.0-PVC | 171 302 003 0309 |
|          | 3x0.34PUR | 1.5 m        | M12Y-M03A/2M12-F03A-T-1.5-PUR | 171 302 003 0306 |
|          |           | 5.0 m        | M12Y-M03A/2M12-F03A-T-5.0-PUR | 171 302 003 0307 |
|          | 3x0.34PVC | 1.5 m        | M12Y-M04A/2M12-F03A-T-1.5-PVC | 171 302 003 0302 |
|          |           | 5.0 m        | M12Y-M04A/2M12-F03A-T-5.0-PVC | 171 302 003 0303 |
| 4        | 3x0.34PUR | 1.5 m        | M12Y-M04A/2M12-F03A-T-1.5-PUR | 171 302 003 0304 |
|          |           | 5.0 m        | M12Y-M04A/2M12-F03A-T-5.0-PUR | 171 302 003 0305 |
|          | 4x0.34PVC | 1.5 m        | M12Y-M04A/2M12-F04A-T-1.5-PVC | 171 302 004 0307 |
|          |           | 5.0 m        | M12Y-M04A/2M12-F04A-T-5.0-PVC | 171 302 004 0308 |
|          | 4x0.34PUR | 1.5 m        | M12Y-M04A/2M12-F04A-T-1.5-PUR | 171 302 004 0305 |
|          |           | 5.0 m        | M12Y-M04A/2M12-F04A-T-5.0-PUR | 171 302 004 0306 |
| 5        | 5x0.25PVC | 1.5 m        | M12Y-M05A/2M12-F05A-T-1.5-PVC | 171 302 005 0302 |
|          |           | 5.0 m        | M12Y-M05A/2M12-F05A-T-5.0-PVC | 171 302 005 0303 |
|          | 5x0.25PUR | 1.5 m        | M12Y-M05A/2M12-F05A-T-1.5-PUR | 171 302 005 0304 |
|          |           | 5.0 m        | M12Y-M05A/2M12-F05A-T-5.0-PUR | 171 302 005 0305 |

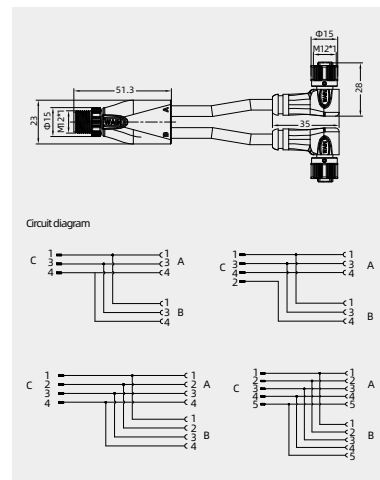


Male cable connector

-female angled cable connector



| Contacts | Cable     | Cable length | Designation                   | Order No.        |
|----------|-----------|--------------|-------------------------------|------------------|
| 3        | 3x0.34PVC | 1.5 m        | M12Y-M03A/2M12-F03A-S-1.5-PVC | 171 302 003 0318 |
|          |           | 5.0 m        | M12Y-M03A/2M12-F03A-S-5.0-PVC | 171 302 003 0319 |
|          | 3x0.34PUR | 1.5 m        | M12Y-M03A/2M12-F03A-S-1.5-PUR | 171 302 003 0321 |
|          |           | 5.0 m        | M12Y-M03A/2M12-F03A-S-5.0-PUR | 171 302 003 0322 |
|          | 3x0.34PVC | 1.5 m        | M12Y-M04A/2M12-F03A-S-1.5-PVC | 171 302 003 0323 |
|          |           | 5.0 m        | M12Y-M04A/2M12-F03A-S-5.0-PVC | 171 302 003 0320 |
| 4        | 3x0.34PUR | 1.5 m        | M12Y-M04A/2M12-F03A-S-1.5-PUR | 171 302 003 0324 |
|          |           | 5.0 m        | M12Y-M04A/2M12-F03A-S-5.0-PUR | 171 302 003 0325 |
|          | 4x0.34PVC | 1.5 m        | M12Y-M04A/2M12-F04A-S-1.5-PVC | 171 302 004 0327 |
|          |           | 5.0 m        | M12Y-M04A/2M12-F04A-S-5.0-PVC | 171 302 004 0326 |
|          | 4x0.34PUR | 1.5 m        | M12Y-M04A/2M12-F04A-S-1.5-PUR | 171 302 004 0328 |
|          |           | 5.0 m        | M12Y-M04A/2M12-F04A-S-5.0-PUR | 171 302 004 0329 |
| 5        | 5x0.25PVC | 1.5 m        | M12Y-M05A/2M12-F05A-S-1.5-PVC | 171 302 005 0315 |
|          |           | 5.0 m        | M12Y-M05A/2M12-F05A-S-5.0-PVC | 171 302 005 0314 |
|          | 5x0.25PUR | 1.5 m        | M12Y-M05A/2M12-F05A-S-1.5-PUR | 171 302 005 0316 |
|          |           | 5.0 m        | M12Y-M05A/2M12-F05A-S-5.0-PUR | 171 302 005 0317 |



•Other cable lengths can be customized, double-ended connectors, male/female, straight/angled, shielded/unshielded, freely combinable.