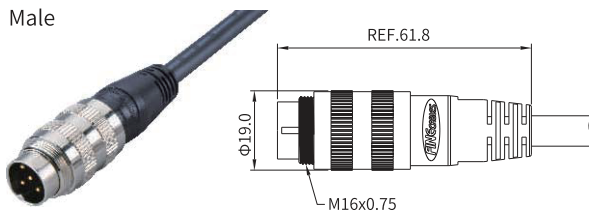
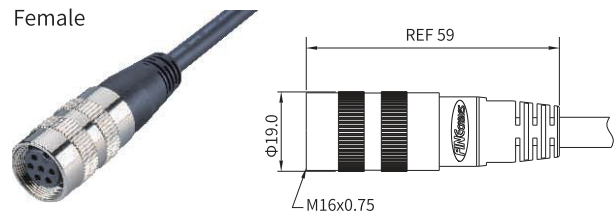


## M16 Straight Connector, Molded Cable, Shielded

Male



Female



RoHS



RoHS



### Specifications

| Contacts              | 2                                                                                 | 3                                                                                 | 4                                                                                 | 5-a                                                                               | 5-b                                                                               | 6                                                                                 | 7-a                                                                               | 7-b                                                                                | 8                                                                                   | 12                                                                                  | 14-b                                                                                | 19                                                                                  |
|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Pin layout(Male)      |  |  |  |  |  |  |  |  |  |  |  |  |
| Pin layout(Female)    |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard              | IEC 61076-2-106                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Ambient temperature   | -25°C ~ +85°C (flexible installation) , -40°C ~ +85°C (fixed installation)        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Connector insert      | PBT                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Connector contacts    | Brass with gold plated                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Connector overmold    | TPU                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Coupling nut/screw    | Zinc alloy with nickel plated                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| O-ring(of Female)     | NBR/FKM                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Insulation resistance | ≥100MΩ                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Contact resistance    | ≤5mΩ                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Shielding             | Available                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| IP rating             | IP65, IP67 in locked condition                                                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Mating endurance      | >100 cycles                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Rated current         | 7A(40°C)                                                                          |                                                                                   |                                                                                   | 6A(40°C)                                                                          |                                                                                   |                                                                                   | 5A(40°C)                                                                          |                                                                                    |                                                                                     | 3A(40°C)                                                                            |                                                                                     |                                                                                     |
| Rated voltage         | 250V/32V                                                                          |                                                                                   |                                                                                   |                                                                                   | 60V/32V                                                                           |                                                                                   | 250V/32V                                                                          |                                                                                    | 125V/32V                                                                            |                                                                                     | 60V/32V                                                                             |                                                                                     |
| Wire gauge            | 0.75mm <sup>2</sup> (AWG18)                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 0.25mm <sup>2</sup> (AWG24)                                                         |                                                                                     |                                                                                     |

### Part Number

| Pins | Cable length | Male                 |                      | Female               |                      |
|------|--------------|----------------------|----------------------|----------------------|----------------------|
|      |              | PVC                  | PUR                  | PVC                  | PUR                  |
| 2    | 1m           | MA16MSAF02ST-10CB75  | MA16MSAF02ST-10RB75  | MA16FSAF02ST-10CB75  | MA16FSAF02ST-10RB75  |
| 3    | 1m           | MA16MSAF03ST-10CB75  | MA16MSAF03ST-10RB75  | MA16FSAF03ST-10CB75  | MA16FSAF03ST-10RB75  |
| 4    | 1m           | MA16MSAF04ST-10CB75  | MA16MSAF04ST-10RB75  | MA16FSAF04ST-10CB75  | MA16FSAF04ST-10RB75  |
| 5-a  | 1m           | MA16MSAF05AST-10CB75 | MA16MSAF05AST-10RB75 | MA16FSAF05AST-10CB75 | MA16FSAF05AST-10RB75 |
| 5-b  | 1m           | MA16MSAF05BST-10CB75 | MA16MSAF05BST-10RB75 | MA16FSAF05BST-10CB75 | MA16FSAF05BST-10RB75 |
| 6    | 1m           | MA16MSAF06ST-10CB75  | MA16MSAF06ST-10RB75  | MA16FSAF06ST-10CB75  | MA16FSAF06ST-10RB75  |
| 7-a  | 1m           | MA16MSAF07AST-10CB75 | MA16MSAF07AST-10RB75 | MA16FSAF07AST-10CB75 | MA16FSAF07AST-10RB75 |
| 7-b  | 1m           | MA16MSAF07BST-10CB75 | MA16MSAF07BST-10RB75 | MA16FSAF07BST-10CB75 | MA16FSAF07BST-10RB75 |
| 8    | 1m           | MA16MSAF08ST-10CB75  | MA16MSAF08ST-10RB75  | MA16FSAF08ST-10CB75  | MA16FSAF08ST-10RB75  |
| 12   | 1m           | MA16MSAF12ST-10CB25  | MA16MSAF12ST-10RB25  | MA16FSAF12ST-10CB25  | MA16FSAF12ST-10RB25  |
| 14-b | 1m           | MA16MSAF14BST-10CB25 | MA16MSAF14BST-10RB25 | MA16FSAF14BST-10CB25 | MA16FSAF14BST-10RB25 |
| 19   | 1m           | MA16MSAF19ST-10CB25  | MA16MSAF19ST-10RB25  | MA16FSAF19ST-10CB25  | MA16FSAF19ST-10RB25  |

### Default wire colors

| Pin No. |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Pin 1   | RD    | BN | BN | BN | BN | WH | WH | WH | WH | WH | WH | WH | WH | WH | WH | WH | WH | WH | WH | WH | WH | WH |
| Pin 2   | BK    | BU | WH | WH | WH | BN | BN | BN | BN | BN | BN | BN | BN | BN | BN | BN | BN | BN | BN | BN | BN | BN |
| Pin 3   |       | BK | BU | BU | BU | GN | GN | GN | GN | GN | GN | GN | GN | GN | GN | GN | GN | GN | GN | GN | GN | GN |
| Pin 4   |       |    | BK | BK | BK | YE | YE | YE | YE | YE | YE | YE | YE | YE | YE | YE | YE | YE | YE | YE | YE | YE |
| Pin 5   |       |    |    | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY | GY |
| Pin 6   |       |    |    |    |    | PK | PK | PK | PK | PK | PK | PK | PK | PK | PK | PK | PK | PK | PK | PK | PK | PK |
| Pin 7   |       |    |    |    |    |    | BU | BU | BU | BU | BU | BU | BU | BU | BU | BU | BU | BU | BU | BU | BU | BU |
| Pin 8   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 9   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 10  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 11  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 12  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 13  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 14  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 15  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 16  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 17  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 18  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pin 19  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Shell   | Braid |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |