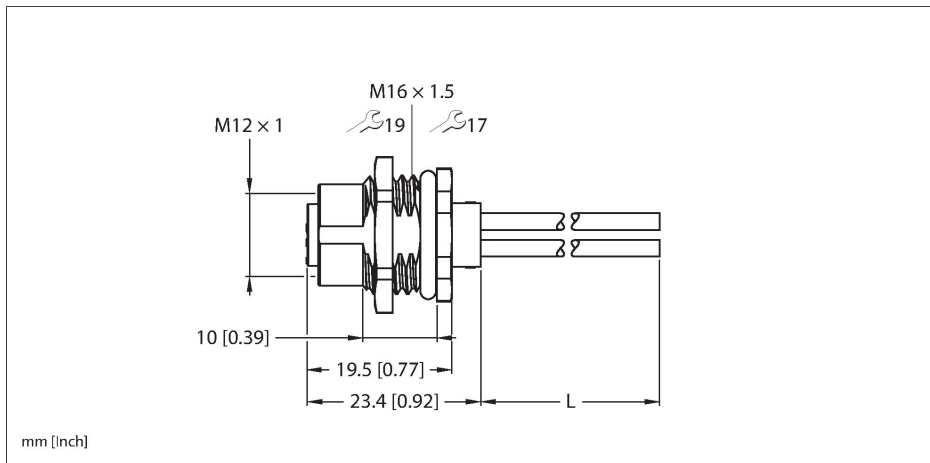


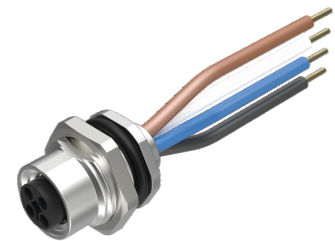
# FKFD46PT-0.5/M16

## M12 Power Flange – Rear-mounted



### Technical data

|                           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| Type                      | FKFD46PT-0.5/M16                                                                      |
| ID                        | U2-28494                                                                              |
| Connector A               | Female, M12 × 1, T-coded                                                              |
| Design specification      | acc. to IEC 61076-2-111                                                               |
| Number of Pins            | 4                                                                                     |
| Contacts                  | Brass, CuZn, Gold-plated                                                              |
| Contact carriers          | Plastic, PA, Black                                                                    |
| Seal                      | O ring, Plastic, FKM/FPM                                                              |
| Flange housing            | Brass, CuZn, Nickel-plated                                                            |
| Tightening torque (range) | 0.4 ... 1 Nm<br>(observe max. torque of mating connector!)                            |
| Mounting type             | backplane mounting                                                                    |
| Screw-in thread seal      | O-ring, NBR                                                                           |
| Screw-in thread           | M16 × 1.5                                                                             |
|                           | BrassCuZnNickel-plated                                                                |
| Flange tightening torque  | 2.5...7.3 Nm                                                                          |
| Mechanical lifespan       | > 100 Mating cycles                                                                   |
| Pollution degree          | 3                                                                                     |
| Protection class          | IP68                                                                                  |
|                           | NEMA: 1, 3, 4, 6P                                                                     |
| Conductor data            |                                                                                       |
| Number of cores           | 4                                                                                     |
| Cable length              | 0.5 m, 0.5 m, (+ 50 mm or 4 % of the length/-0.0, depending on which value is larger) |
| Conductor material        | TC (tinned copper)                                                                    |
| Core insulation           | PVC                                                                                   |



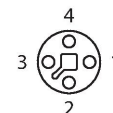
### Features



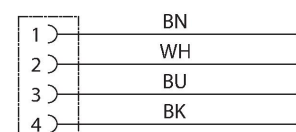
- M12 powerfast Flanschkupplung
- M12-Kupplung, T-codiert, 4-polig

### Contact assignment

Connector A



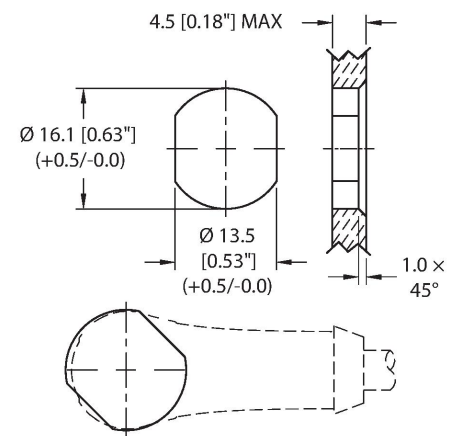
### Circuit Diagram



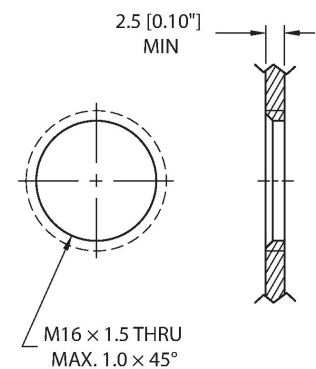
## Technical data

|                                                                              |                                               |
|------------------------------------------------------------------------------|-----------------------------------------------|
| Core cross-section                                                           | 4 x 16 AWG [Similar to 1.50 mm <sup>2</sup> ] |
| Core colors                                                                  | BN, WH, BU, BK                                |
| <b>Electrical properties at +20 °C</b>                                       |                                               |
| Rated voltage                                                                | 63 V                                          |
| Current                                                                      | 12 A                                          |
| <b>Mechanical and chemical properties</b>                                    |                                               |
| Ambient temperature range (stationary)                                       | -40 °C...+85 °C                               |
| Approvals                                                                    | CE<br>UKCA                                    |
| <b>Note</b>                                                                  |                                               |
| CAUTION: RISK OF ELECTRIC SHOCK!<br>DO NOT DISCONNECT UNDER LOAD!            |                                               |
| - We reserve the right to make technical modifications without prior notice. |                                               |

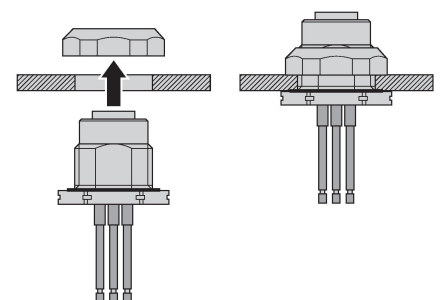
### Through bore



### Threaded bore



### Rear-mounted



## Derating curve

